California Department of Food and Agriculture

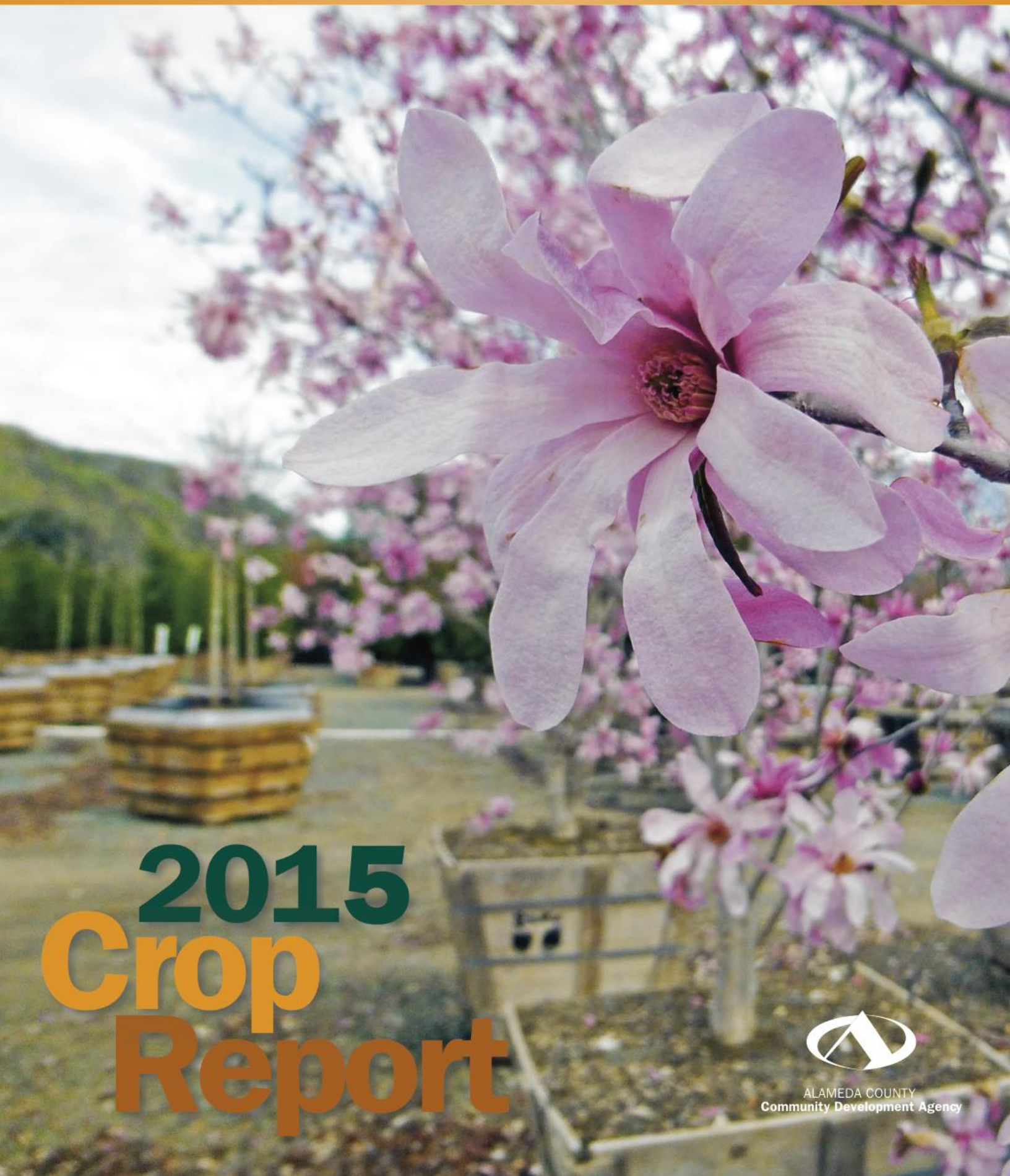
Agricultural Commissioners' Crop Reports

Alameda County

2015-2017

ALAMEDA COUNTY

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES



2015 Crop Report

ALAMEDA COUNTY
Community Development Agency

DEDICATION

The 2015 Alameda County Agricultural Crop Report is dedicated to Scott Paulsen and Ken Peek.

Scott Paulsen, Alameda County Agricultural Commissioner/Sealer of Weights & Measures – Retired

Mr. Paulsen, an Alameda County native, graduated from Hayward High School and Cal State University, Hayward. Scott joined Alameda County's Weights & Measures Department in 1979 and advanced his career in Weights & Measures and Agriculture as an Inspector in Alameda and Yuba Counties. He became Chief Deputy Agricultural Commissioner in Calaveras County and eventually Agricultural Commissioner/Sealer in Amador, Yolo, and San Francisco Counties before returning to Alameda as the Assistant Agricultural Commissioner/Sealer in 2008. Scott became Alameda's 8th Agricultural Commissioner and 9th Sealer of Weights and Measures in 2014. His retirement culminates 37 years dedicated to public service which includes 6 years as the Enforcement Branch Chief for California's Environmental Protection Agency/Department of Pesticide Regulation.

Ken Peek, Alameda County Agricultural & Standards Investigator III – Retired

An Alameda County native, Ken started his career in the Mediterranean Fruit Fly program in 1982 as an insect detection trapper with the California Department of Food & Agriculture. He joined Alameda County as an insect trapper and was soon supervising the detection trapping operation. He moved into the Pest Management division, affectionately known as 'rodent and weed', working with ranchers and growers to assist them with their pest control issues. Ken became a 'district biologist' covering all aspects of enforcement throughout the county. He performed a variety of inspection services related to pesticide use, pest exclusion, produce and egg quality, nurseries, and other programs. Ken was the lead contact for the Sudden Oak Death (SOD) program, working with nurseries, the waste management industry, and others impacted by SOD regulations. Alameda County has benefited greatly from his nearly 34 years of public service. Ken is a gifted photographer and chronicler of natural phenomena. All photographs in this year's Crop Report are samples of his work. The historical map on page 4 was also contributed by Ken.

The entire Community Development Agency wishes both Scott and Ken congratulations and all the best in their well-deserved retirements.

ALAMEDA COUNTY COMMUNITY DEVELOPMENT AGENCY

AGRICULTURE / WEIGHTS & MEASURES DEPARTMENT

Chris Bazar
Agency Director

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

224 West Winton Ave
Room 184

Hayward, California
94544-1215

phone
510.670.5232
fax
510.783.3928

www.acgov.org/cda

July 28, 2016

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 2015 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 2015 total gross value of Alameda County's agricultural production was $49,903,000, an increase of 3,591,000 (7.8 %) from the 2014 value of $46,312,000. This increase in gross production value was due primarily to a second high year in cattle sales due to improving drought conditions, coupled with record-high prices. This boost in sales should not be interpreted as a windfall to cattle producers, as animal replacement costs will be significant in coming seasons, an effect that will be exacerbated by reduced sales prices which have already declined significantly in 2016.

Nevertheless, with the recent increases, Livestock production has now eclipsed Fruit and Nut Crops as the top grossing commodity group in Alameda County in 2015 with an estimated production value of $21.4 million in sales of cattle and calves.

Fruit and Nut crops remained high in 2015 estimated at $15.4 million in value, with wine grapes continuing to sustain good quality, but yields were down from the previous growing season. Significant declines were also observed in Miscellaneous Fruit and Nut crops contributing further to a 6.2% decrease in this category overall.

Vegetable Crops increased in 2015 to an estimated value of $1.3M (+4.4%) and have been steadily increasing in recent years. Conversely, Nursery Products have declined steadily in recent years, estimated at $6.8M in 2015 (-14%). Field Crops also declined 13% in 2015 to $4.3M. Production Nursery acreages have declined in recent years due to various factors. High water costs limited Field Crop production on irrigated lands, reducing yields and resulting in conversions to dryland or perennial crops in some locations.

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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ALAMEDA COUNTY/COMMUNITY DEVELOPMENT AGENCY AGRICULTURE/WEIGHTS & MEASURES

CDA-Deputy Director
Agricultural Commissioner/Sealer of Weights & Measures
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Assistant Agricultural Commissioner/Sealer of Weights & Measures
Cathy Roache

Deputy Agricultural Commissioner/Sealer of Weights & Measures

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Cheryl Mailho

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Ivan Gallo	Alcides Reyes	
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Blane Manchester	Rudy Raras	

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Augustine De Villa	Flora Kwan	Robert Sloan*
Dana Lynn Galvin	Sarah Lajon	Megdelawit Yoseph
Amare Haileselassie	Mike Maxwell	Darin Hoagland

Canine Inspection Team
Lisa Sampson and Cosmo

Supervising Secretary II
Cora Robles

Administrative/Clerical Support

Suzette Morgado	Kay Rodriques	Clarice Walker

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County Seat, Oakland
County Population (2015) 1,638,215
Land Area (Square Miles) 738
Water Area (Square Miles) 83.8
Persons Per Square Mile (2015) 2,220

14 Incorporated Cities

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• 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 2015-16)	$245,456,517,353
Total Harvested Crop Acreage	184,511
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	**2015**	**355**	**2.81**	**998**	**Ton**	**$190.00**	**$190,000**
	2014	524	4.71	2,468	Ton	$238.00	$587,000
Hay, Other	**2015**	**2,514**	**1.06**	**2,664**	**Ton**	**$165.56**	**$441,000**
	2014	3381	0.89	3,009	Ton	$182.00	$548,000
Range & Pasture	**2015**	**177,798**	-----		**Acre**	**$18.73**	**$3,330,000**
	2014	177,798	-----		Acre	$17.95	$3,191,000
Miscellaneous	**2015**	**835**	Includes safflower, wheat, sorghum, etc.				**$330,000**
	2014	979					$593,000
Total	**2015**	**181,502**					**$4,292,000**
	2014	182,682					$4,919,000

FRUIT & NUT CROPS							
Crop	**Year**	**Bearing Acreage**	**Per Acre**	**Total**	**Unit**	**Per Unit**	**Total**
Grapes, Wine Red	**2015**	**1807**	**3.9**	**7,047**	**Ton**	**$1,613.00**	**$11,367,000**
	2014	1837	4.07	7,477	Ton	$1,581.00	$11,820,000
Grapes, Wine White	**2015**	**591**	**4.89**	**2,890**	**Ton**	**$1,329.00**	**$3,841,000**
	2014	583	5.32	3,102	Ton	$1,269.00	$3,936,000
Miscellaneous Fruit & Nut	**2015**	**321**	Includes olives, walnuts, pistachios, pomegranates, etc.				**$186,000**
	2014	319					$662,000
Total	**2015**	**2,719**					**$15,394,000**
	2014	2,739					$16,418,000

VEGETABLE CROPS				
Crop	**Year**	**Harvested Acreage**		**Total**
Miscellaneous	**2015**	**112**	Includes broccoli, cabbage, corn, leaf lettuce, greens, pumpkins, tomatoes, squash, etc.	**$1,269,000**
Vegetables	2014	112		$1,215,000

LIVESTOCK & POULTRY						
Item	**Year**	**No. of Head**	**Total Weight**	**Unit**	**Per Unit**	**Total**
Cattle & Calves	**2015**	**18,210**	**138,530**	**Cwt**	**Various**	**$21,466,000**
	2014	12,611	83,912	Cwt.	Various	$15,016,000
Misc. Poultry and Livestock Products	**2015**	Includes sheep, goats, pigs, bee pollination and apiary products				**$629,000**
	2014					$778,000
Total	**2015**					**$22,095,000**
	2014					$15,794,000

NURSERY PRODUCTS							
Item	**Year**	**House Sq. Ft.**	**Field Acres**	**Quantity Sold**	**Unit**	**Per Unit**	**Total**
Ornamental Trees and Shrubs	**2015**	**21,555**	**115**	**325,678**	**Plt**	**Various**	**$5,962,000**
	2014	21,555	124	342,224	Plt	Various	$6,988,000
Miscellaneous Nursery Products	**2015**	**110,000**	**60**	Includes bedding plants, cut flowers, indoor decoratives, vegetable starts, Christmas trees, etc.			**$891,000**
	2014	95,000	60				$978,000
Total	**2015**	**131,555**	**175**				**$6,853,000**
	2014	116,555	184				$7,966,000

COMPARISON SUMMARY					
Item	**2015**	**2014**	**2013**	**2012**	**2011**
Field Crops	**4,292,000**	4,919,000	5,404,000	5,611,000	5,311,000
Vegetable Crops	**1,269,000**	1,215,000	1,020,000	949,000	785,000
Fruit & Nut Crops	**15,394,000**	16,418,000	16,124,000	14,259,000	12,043,000
Nursery Products	**6,853,000**	7,966,000	8,377,000	10,531,000	12,147,000
Livestock & Poultry	**22,095,000**	15,794,000	11,032,000	8,709,000	10,894,000
Total	**49,903,000**	46,312,000	41,957,000	40,059,000	41,180,000

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	79,159
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	10,724
Light Brown Apple Moth	Ornamental/Commercial Crops	209
Asian Citrus Psyllid	Citrus/Nursery Plants	1821
European Grapevine Moth	Vineyards	674

In 2015 exotic insect pests detections included A-rated Gypsy Moth in Hayward. The County Agriculture Department deployed a grand total of 8,430 traps to detect the presence of invasive insect pests, and serviced the traps 93.274 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	6579	126 (90 pests)
Trucks	143	3 (7 pests)
Household Goods	109	0
Nursery (GWSS Program)	2716	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	1231	501 (210 pests found)
'A' and 'Q' Rated Pest Interceptions	51	88

LIGHT BROWN APPLE MOTH PROGRAM	
Compliance Inspections	248
Traps in Nurseries/Crops	29 (No female adults found)
Businesses Under Compliance Agreement	
Crop Producers	6
Community Gardens/Direct Markets	0
Retail and Production Nurseries	15
Green Waste Facilities	14

SUDDEN OAK DEATH (SOD) PROGRAM	
Compliance Inspections	78
Sudden Oak Death Positives	0
Businesses Under Compliance Agreement	
Shipping Nurseries	14
Green-waste Facilities	14
Wood Products/Wreaths/Greenery	41

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	16 sites
Artichoke Thistle	*Cynara cardunculus*	Chemical/Mechanical	Various, 45 net acres
Purple Starthistle	*Centaurea calcitrapa*	Chemical/Mechanical	Various, 18 net acres

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, Pampas Grass, 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	9	122

URBAN FARMING		
TYPE	**NUMBER**	**ESTIMATED ACREAGE**
Community Gardens	36	52
School Gardens	269	92
Certified Farmers Markets	35	728 stalls
Certified Producers	22	149 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.

A sampling of artistic and technical photography by Ken Peek that has enriched our professional publications and helped preserve agriculture in Alameda County over the years.

ALAMEDA COUNTY
Community Development Agency

AGRICULTURE / WEIGHTS & MEASURES

224 W. Winton Ave. • Room 184
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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.

ALAMEDA COUNTY

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

2016 CROP REPORT

ALAMEDA COUNTY
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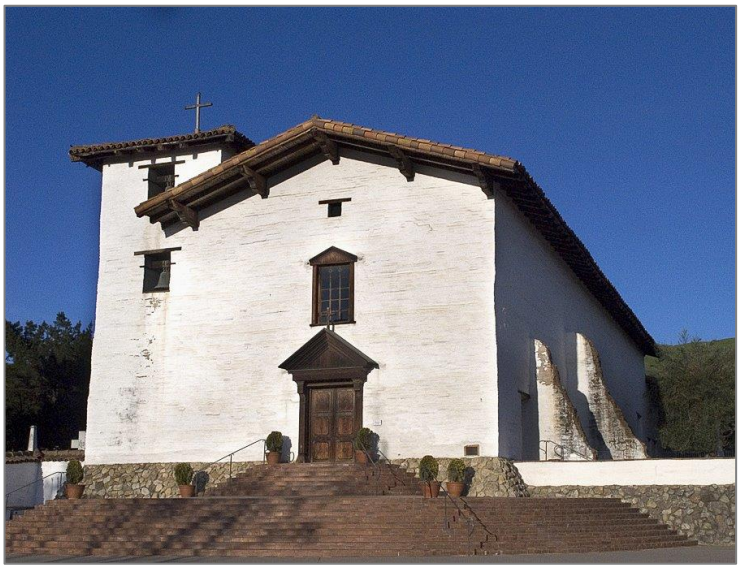
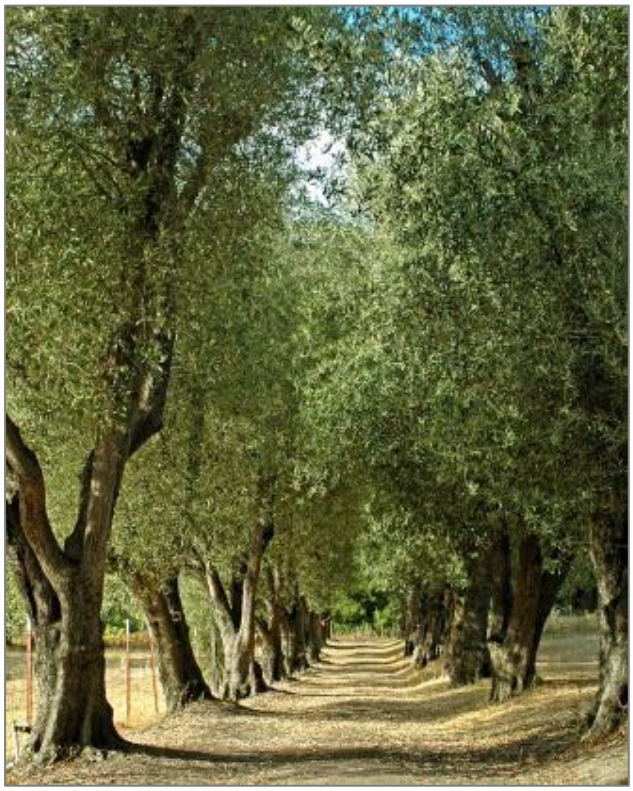
Olive Production in Alameda County



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.)



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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,

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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.

ALAMEDA COUNTY
Community Development Agency

AGRICULTURE / WEIGHTS & MEASURES

224 W. Winton Ave. • Room 184
Hayward, California 94544

phone 510.670.5232
fax 510.783.3928
www.acgov.org/cda/awm

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

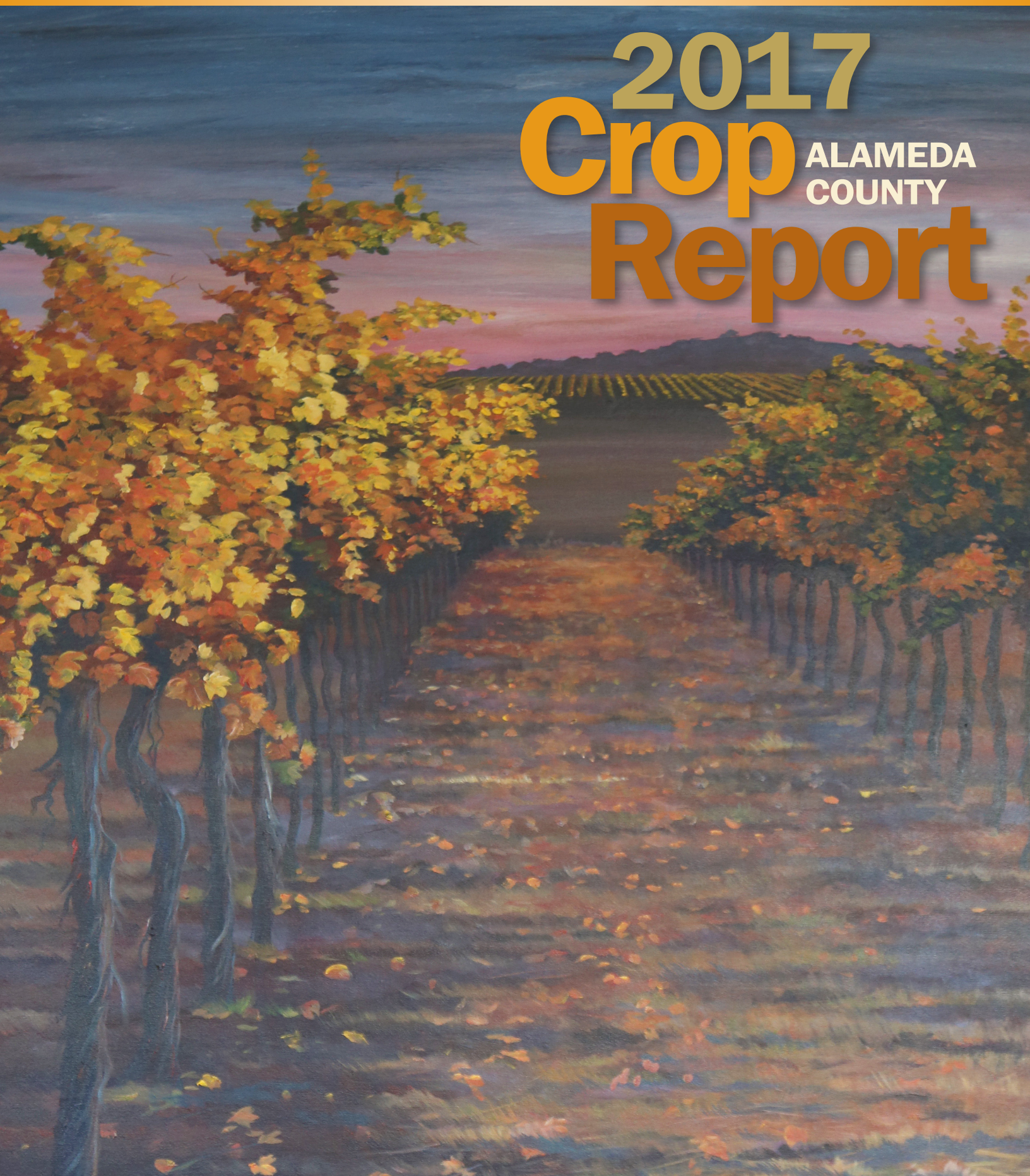
Integrity, honesty, and respect fostering mutual trust.
Transparency and accountability achieved through open communications and involvement of diverse community voices.
Fiscal Stewardship reflecting the responsible management of resources.
Customer service built on commitment, accessibility, and responsiveness.
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.

DEPARTMENT OF AGRICULTURE
WEIGHTS & MEASURES

ALAMEDA COUNTY
Community Development Agency

2017 Crop Report

ALAMEDA COUNTY



ALAMEDA COUNTY | **Community Development Agency**

AGRICULTURE / WEIGHTS & MEASURES DEPARTMENT

Chris Bazar
Agency Director

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

224 W. Winton Ave.
Room 184
Hayward, CA 94544

phone
510.670.5232

fax
510.670.3928

www.acgov.org/cda

August 27, 2018

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 2017 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 2017 estimated total gross value of Alameda County's agricultural production was $47,702,000, a 0.7 percent overall reduction from the 2016 estimated value of $48,023,000. This observed reduction was due primarily to changes in field crop production and reductions in reported Fruit and Nut crops.

Crop conversions have occurred in eastern Alameda County in recent years with significant field crop acreages converted to nut crops. Production from these orchards will begin manifesting in coming years as trees mature and crop yields increase.

Reduced fruit and nut acreages were reported this year which account for reduced overall production value in this crop category (-3.6%). However yields and reported prices remained high and consistent with 2016 reported values.

At the request of industry, we have this year endeavored to present winegrape production information by variety. This information can be found in the highlight section of this report. This information highlights the complexity of our long-standing winegrape industry in Alameda County, and underscores our proud and ongoing heritage in this industry in California.

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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Alameda County | **Community Development Agency**

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Mohamed Khair*
Sarah Lajon
Michael Maxwell
Gabrielle Palmer
Julio Reyes Blanco*
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Seble Tefera
Megdelawit Yoseph

Canine Inspection Team

Lisa Sampson and Cosmo

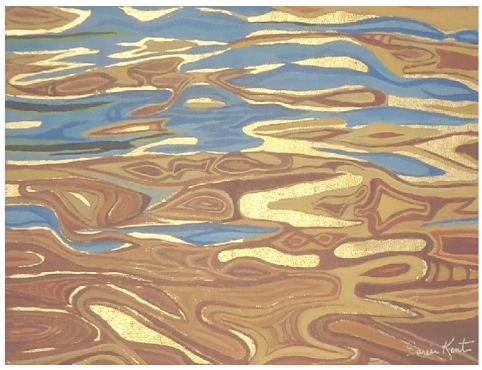
Supervising Secretary II

Cora Robles

Administrative/Clerical Support

Suzette Morgado
Kay Rodriques
Clarice Walker

ALAMEDA COUNTY
2017 CROP REPORT


Original artwork graciously provided by Darcie Kent | Cover: Autumn Vines at Crown Block | Above: Reflections of Water
For more information visit darciekentvineyards.com

FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Hay, Alfalfa	**2017**	**302**	**2.71**	**818**	**Ton**	**$180.00**	**$147,000**
	2016	533	5.19	2766	Ton	$170.00	$470,000
Hay, Other	**2017**	**3116**	**0.99**	**3,085**	**Ton**	**$77.11**	**$238,000**
	2016	3052	1.43	4,364	Ton	$85.61	$374,000
Range & Pasture	**2017**	**175,360**	**-----**		**Acre**	**$19.07**	**$3,344,000**
	2016	175,878	-----		Acre	$18.82	$3,310,000
Miscellaneous	**2017**	**750**	Includes triticale, wheat, sorghum, etc.				**$301,000**
	2016	649					$213,000
Total	**2017**	**179,528**					**$4,030,000**
	2016	180,112					$4,367,000

FRUIT & NUT CROPS

CROP	YEAR	BEARING ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Grapes, Wine Red	**2017**	**1742**	**4.87**	**8,484**	**Ton**	**$1,502.00**	**$12,743,000**
	2016	1949	4.51	8,790	Ton	$1,481.00	$13,018,000
Grapes, Wine White	**2017**	**677**	**5.63**	**3,812**	**Ton**	**$1,327.00**	**$5,059,000**
	2016	678	5.73	3,885	Ton	$1,331.00	$5,171,000
Miscellaneous Fruit & Nut	**2017**	**260**	Includes olives, walnuts, pistachios, pomegranates, etc.				**$482,000**
	2016	304					$770,000
Total	**2017**	**2,679**					**$18,284,000**
	2016	2,931					$18,959,000

Original artwork graciously provided by Darcie Kent | Title: Harvest Sunset at Crane Ridge
For more information visit darciekentvineyards.com

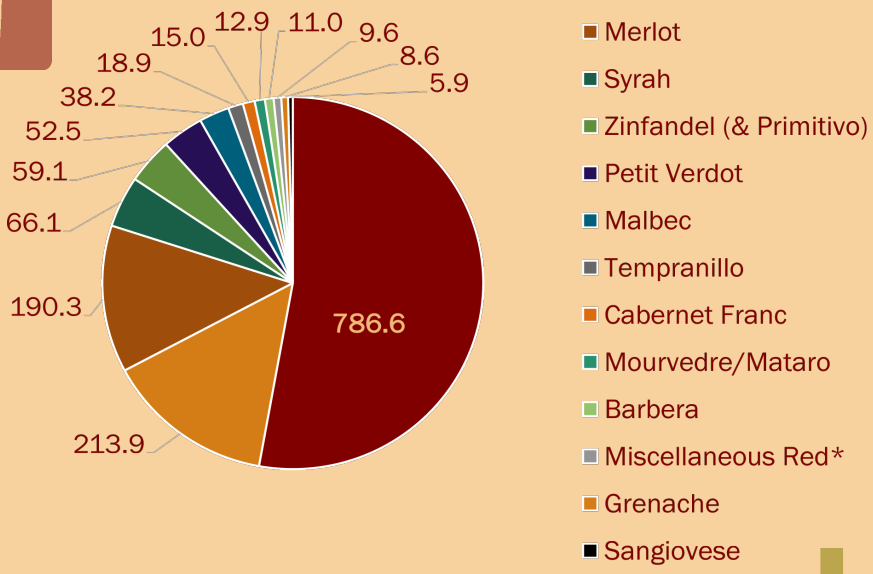
2017 Alameda County Winegrape Varieties

At the request of our local industry, this year our department has endeavored to gather crop production information on winegrapes varieties. We thank our Alameda County Grape Producers and the Livermore Valley Winegrowers Association for their support in this effort. Ongoing support and participation from all grape growers is greatly appreciated.

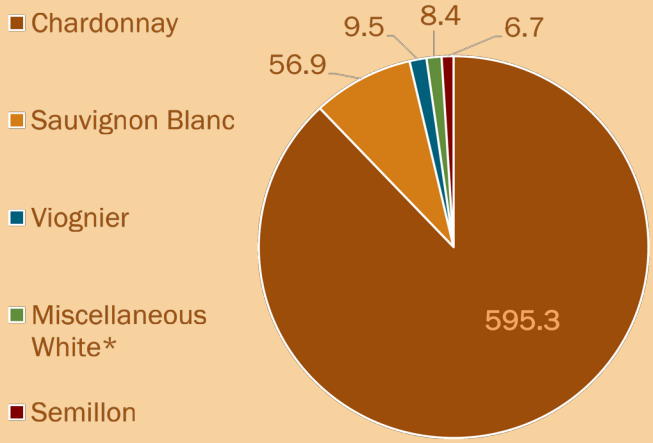
Variety	Type	Acres	Est. Tons
Cabernet Sauvignon	Red	786.6	3629.7
Petite Sirah	Red	213.9	1152.5
Merlot	Red	190.3	1056.7
Syrah	Red	66.1	274.1
Zinfandel (& Primitivo)	Red	59.1	267.0
Petit Verdot	Red	52.5	237.4
Malbec	Red	38.2	240.1
Tempranillo	Red	18.9	73.3
Cabernet Franc	Red	15.0	42.3
Mourvedre/Mataro	Red	12.9	57.6
Barbera	Red	11.0	57.3
Miscellaneous Red*	Red	9.6	38.9
Grenache	Red	8.6	67.5
Sangiovese	Red	5.9	51.8
Chardonnay	White	595.3	3404.7
Sauvignon Blanc	White	56.9	295.7
Viognier	White	9.5	25.4
Miscellaneous White*	White	8.4	40.7
Semillon	White	6.7	46.9

***Miscellaneous Varieties** (varieties with fewer than 5 reported acres). **Miscellaneous Red Varieties** include: *Graciano, Souzao, Nebbiolo, Pinot Noir, Touriga Nacional, Counoise*. **Miscellaneous White Varieties** Include: *Rousanne, Muscat Blanc (Canelli), Pinot Gris, Pinot Blanc, Verdehlo, Muscat Orange and Albarino*.

Red Varieties



White Varieties



A total of 31 Grape varieties were reported. There were 20 red varieties reported, with 14 red varieties reported over five acres planted. Six miscellaneous red varieties were reported with fewer than five planted acres. Eleven White varieties were reported, with four varieties over five planted acres reported, and seven miscellaneous varieties with under 5 planted acres each reported. Pie Chart Legends show grape varieties in descending order of acreages and correspond to figures in the table above.

NURSERY PRODUCTS

ITEM	YEAR	INDOOR SQ. FT.	OUTDOOR (ACRES)	QUANTITY SOLD	UNIT	PER UNIT	TOTAL
Ornamental Trees and Shrubs	**2017**	**20,875**	**89**	**176,452**	**Plt**	**Various**	**$6,413,000**
	2016	27,975	114	293,689	Plt	Various	$6,262,000
Miscellaneous Nursery Products	**2017**	**131,000**	**59**	Includes Bedding Plants, cut flowers, indoor decoratives, vegetable starts, Christmas trees, etc.			**$843,000**
	2016	120,000	60				$1,000,000
Total	**2017**	**151,875**	**148**				**$7,256,000**
	2016	147,975	174				$7,262,000

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE		TOTAL
Miscellaneous Vegetables	**2017**	**129**	Includes broccoli, cabbage, corn, leaf lettuce, greens, pumpkins, tomatoes, squash, etc.	**$1,084,000**
	2016	121		$1,052,000

LIVESTOCK & POULTRY

ITEM	YEAR	NO. OF HEAD	TOTAL WEIGHT	UNIT	PER UNIT	TOTAL
Cattle & Calves	**2017**	**13,524**	**125,826**	**Cwt**	**Various**	**$16,263,000**
	2016	15,847	109,996	Cwt	Various	$15,621,000
Misc. Poultry and Livestock Products	**2017**	Includes sheep, goats, pigs, bee pollination and apiary products				**$785,000**
	2016					$762,000
Total	**2017**					**$17,048,000**
	2016					$16,383,000

Original artwork graciously provided by Darcie Kent | Titles: Autumn Leaf/Livermore Longhorn/ Moonrise Over Old Gum Tree Vineyard | For more information visit darciekentvineyards.com

PEST MANAGEMENT & 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	120 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	15 sites - 0.5 acres
Artichoke Thistle	*Cynara cardunculus*	Chemical/Mechanical	Various, 207.1 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, Stinkwort, Rush Skeletonweed, White Horsenettle, and other invasive noxious weed detections as they arise.

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 intended to prevent the introduction of harmful pests.

TYPE OF SHIPMENT	SHIPMENTS INSPECTED	SHIPMENTS REJECTED
Parcel Carrier	3,791	51 (16 pests)
Trucks	203	2 (2 pests)
Household Goods	72	0
Nursery (GWSS Program)	2678	4 (0 pests)
Airfreight	463	3 (2 pests)

SUDDEN OAK DEATH (SOD)

Compliance Inspections	165
Sudden Oak Death Positives	1
Businesses Under Compliance Agreement	
Shipping Nurseries	9
Green-waste Facilities	15

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	1307	426 (202 pests found)

LIGHT BROWN APPLE MOTH PROGRAM

Compliance Inspections	173
Moths detected in regulatory inspections	3
Businesses Under Compliance Agreement	
Crop Producers	1
Community Gardens/Direct Markets	0
Retail and Production Nurseries	10
Green Waste Facilities	15

PEST DETECTION

Pest Detection is the second line of defense against invasive non-native pests becoming established in areas so vast that it is impossible to control or eradicate 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	88,578
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	10,029
Asian Citrus Psyllid	Citrus/Nursery Plants	4,920
European Grapevine Moth	Vineyards	650

In 2017 exotic A-rated insect pests detections included (1) Oriental fruit fly in Oakland, (1) Melon fruit fly in Newark, (1) Guava fruit fly in Fremont and (1) Oriental fruit fly in Fremont. Other finds included (2) Asian Citrus Psyllids in Union City and Oakland, and (2) Glassy winged sharpshooters in Fremont and Livermore. The County Agriculture Department deployed a grand total of 7,563 traps to detect the presence of invasive insect pests, and serviced the traps 104,177 times during the year.

ORGANIC FARMING

CROP	REGISTERED PRODUCERS	ESTIMATED ACREAGE
Miscellaneous	12	177

URBAN FARMING

TYPE	NUMBER	ESTIMATED ACREAGE
Community Gardens	32	16
School Gardens	269	67
Certified Farmers Markets	35	737 stalls
Certified Producers	23	127 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 considered 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 being of economic benefit to agriculture; however, this category of horses is recognized for its ancillary benefit.

COMPARISON SUMMARY

ITEM	2017	2016	2015	2014	2013
Field Crops	**$4,030,000**	$4,367,000	$4,292,000	$4,919,000	$5,404,000
Vegetable Crops	**$1,084,000**	$1,052,000	$1,269,000	$1,215,000	$1,020,000
Fruit & Nut Crops	**$18,284,000**	$18,959,000	$15,394,000	$16,418,000	$16,124,000
Nursery Products	**$7,256,000**	$7,262,000	$6,853,000	$7,966,000	$8,377,000
Livestock & Poultry	**$17,048,000**	$16,383,000	$22,095,000	$15,794,000	$11,032,000
Total	**$47,702,000**	$48,023,000	$49,903,000	$46,312,000	$41,957,000

General County Information

County Seat ..... Oakland
County Population, 2016 1,663,190
Land Area (Square Miles) 738
Water Area (Square Miles) 83.8
Persons per Square Mile, 2015 2,254

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

Facts

Total Assessed Property (Local Roll 2017-18) ..... $280.2 Billion

Total Harvested Crop Acreage (2014) 182,488

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 the Bay. The eastern portion of the County is moderately warmer; high temperatures in the Livermore Amador Valley average 90°F

DEPARTMENT OF AGRICULTURE WEIGHTS & MEASURES

ALAMEDA COUNTY
Community Development Agency

224 W. Winton Avenue • Room 184
Hayward, California 94544
phone 510.670.5232
www.acgov.org/cda

Alameda County

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.

Original artwork graciously provided by Darcie Kent | Title: Autumn Walk at Lake Del Valle | For more information visit darciekentvineyards.com