





### **OVERVIEW OF CHANGES**

#### SUSTAINABLE AGRICULTURE

#### **PROGRAMS AND SERVICES**



HA DANG AGRICULTURAL COMMISSIONER/ SEALER OF WEIGHTS & MEASURES

Supervisor Bill Horn

San Diego County. In 2016, the value of agriculture in San Diego County totaled \$1,746,632,682. This equates to a 2.6% increase from 2015's total value of \$1,701,776,951. The overall acreage devoted to commercial agriculture went from 251,120 acres in 2015 to 250,720 acres in 2016, for a 0.2% decrease overall.

sustainable environment.

Special thanks go to the many producers, industry groups, and public agencies who Supervisors and the State of California for their continued support. Finally, thank you to my outstanding staff for providing our customers with superior service.

Regards,

Danjan

Ha Dang Agricultural Commissioner/ Sealer of Weights and Measures

# COUNTY AGRICULTURAL COMMISSIONER LETTER

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#### MĒGAN MOORE

ASST. AGRICULTURAL COMMISSIONER/ SEALER OF WEIGHTS & MEASURES

- Karen Ross, Secretary, California Department of Food and Agriculture and The Honorable Board of Supervisors of the County of San Diego Supervisor Dianne Jacob, Chairwoman Supervisor Kristin Gaspar, Vice Chairwoman Supervisor Greg Cox Supervisor Ron Roberts
- I respectfully submit our 2016 report of acreage, yield and value of agricultural production for
- The 2016 Crop Statistics and Annual Report details crop information and highlights the many diverse programs that support the County's focus on healthy families, safe communities, and
- provided vital information for this report. I'd like to extend much appreciation to the Board of

# O V E R V I E W OFCHANGES



he overall value of commercial agriculture in San Diego County rose 2.6% from 2015 to 2016. This rise was driven by a 7.6% increase in the value of Nursery and Cut Flower Products produced in the county. While the categories of Fruit and Nuts and Field Crops rose in value, there were substantial decreases in the value of Vegetable and Vine Crops, Apiary Products, Livestock and Poultry, and Forest Products.

Ornamental Trees and Shrubs remain the top crop, bringing in a total of \$436,817,000, or 25% of the total value of agricultural production in San Diego County. Following close behind, Indoor Flowering and Foliage Plants were valued at \$362,925,000, equaling 21% of the County's overall agricultural production. Both categories fall within Nursery and Cut Flower Products which rose by 7.6%, totaling \$1,233,942,000.

Due mostly to the 23% increase in avocado value, Fruit and Nut Crop production was valued at \$328,401,815, a 2.4% increase over the previous year.

Vegetable and Vine Crop value decreased to \$118,291,000, a 19% decline and the fourth straight decrease since a high of \$188 million in 2012. The major driver of the decrease in value this year was an 80% decrease in the value of Herbs and Spices grown in the county, due to decreased acreage.

Apiary Products, valued at \$3,632,000, saw an overall decrease of 10%.

Livestock and Poultry were valued at \$20,721,000 decreasing 33% due to the fact that beef prices have decreased from a high the previous year.

Livestock and Poultry Products value fell 24%, totaling \$36,288,000. This is attributed to a decrease in value per unit of Milk, and a decrease in Chicken Egg production. This is part of a general trend of the production of Chicken Eggs decreasing from a high in 2013. 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 flocks.

Field Crop production was valued at \$4,593,000, an increase of 15.3%. Although the total value has decreased from a high in 2013, there can be significant fluctuations from year to year due to crop rotation.

# HIGHLIGHTS

#### 2016 HIGHLIGHTS

Total Value of Production

Total Acreage

Commodity with Highest Reported Dollar Value

Highest Dollar Value per Acre

Lowest Dollar Value per Acre

Greatest % Increase in Total Dollar Value from 201

Greatest % Decrease in Total Dollar Value from 20

Commodity with the Greatest Amount of Planted

#### SUMMARY OF MAJOR CROPS

CROP	YE
Nursery & Cut Flower Products	20
	20
Fruit & Nuts	20
	20
Vegetables	20
	20
Field Crops	20
	20
Apiary Products	20
	20
Timber Products	20
	20

	\$1,746,632,682
	250,720
	Ornamental Trees & Shrubs
	Indoor Flowering & Foliage Plants
	Rangeland
15	Squash
015	Herbs/Spices
Acreage	Avocados

EAR	ACRES	TOTAL VALUE
016	12,356	\$1,233,942,000
015	12,475	\$1,146,814,770
016	33,174	\$328,401,815
015	34,534	\$320,687,203
016	3,545	\$118,291,000
015	3,810	\$146,566,714
016	201,645	\$4,593,000
015	200,301	\$3,984,930
016		\$3,632,000
015		\$4,051,385
016		\$763,867
015		\$898,961

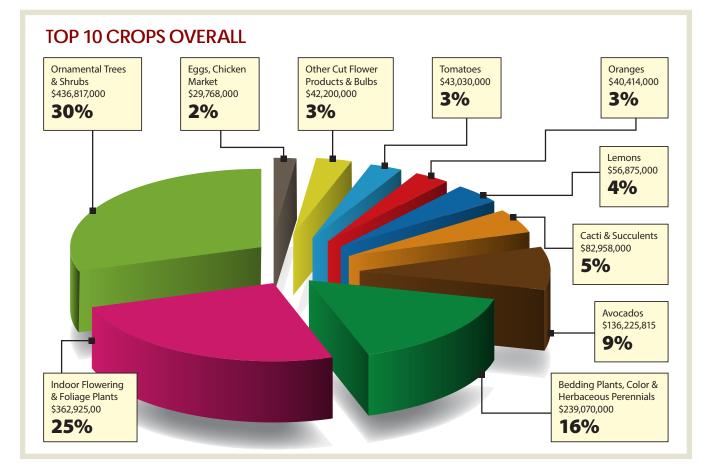
#### SUMMARY OF MAJOR CROPS

CROP	YEAR	ACRES	TOTAL VALUE
Livestock & Poultry	2016		\$20,721,000
	2015		\$30,894,777
Livestock and Poultry Products	2016		\$36,288,000
	2015		\$47,878,211
Totals	2016	250,720	\$1,746,632,682
	2015	251,120	\$1,701,776,951

#### MAJOR CROPS BY OVERALL PERCENTAGE Nursery & Cut Timber Apiary Field Livestock Livestock and Flower Products Poultry Products Products <1% Crops & Poultry <1% <1% 2% 71% 1% Vegetables 7% Fruit & Nuts **19%**

#### TOP TEN CROPS

CROP	2016 VALUE
Ornamental Trees & Shrubs	\$436,817,000
Indoor Flowering & Foliage Plants	\$362,925,000
Bedding Plants, Color & Herbaceous Perennials	\$239,070,000
Avocados	\$136,225,815
Cacti & Succulents	\$82,958,000
Lemons	\$56,875,000
Tomatoes	\$43,030,000
Other Cut Flower Products & Bulbs	\$42,200,000
Oranges	\$40,414,000
Eggs, Chicken Market	\$29,768,000



# 2016 CROP STATISTICS AND ANNUAL REPORT PAGE 11

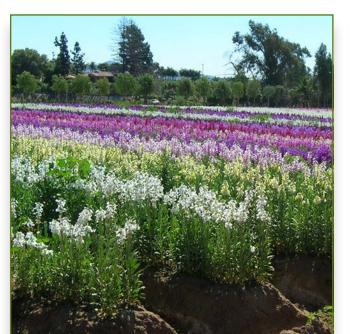
#### NURSERY AND CUT FLOWERS

CROP	YEAR	ACRES	TOTAL VALUE
Bedding Plants, Color & Herbaceous Perennials	2016	1,182	\$239,070,000
	2015	1,231	\$215,425,000
Cacti & Succulents	2016	438	\$82,958,000
	2015	374	\$72,600,132
Citrus, Avocado, & Subtropical Fruit Trees	2016	267	\$20,790,000
	2015	267	\$19,777,758
Indoor Flowering & Foliage Plants (including Poinsettia)	2016	858	\$362,925,000
	2015	858	\$344,167,450
Ornamental Trees & Shrubs	2016	5,210	\$436,817,000
	2015	5,250	\$409,500,000
Turf and Cut Christmas Trees	2016	710	\$16,639,000
	2015	690	\$14,835,000
Total Nursery Products	2016	8,665	\$1,159,199,000
	2015	8,670	\$1,076,305,340

#### NURSERY AND CUT FLOWERS

CROP
Leptospermum
Proteas
Wax Flowers
Other Cut Flowers & Bulbs
Foliage
Total Cut Flower Products
Total Nursery & Cut Flower Products





YEAR	ACRES	Total value
2016	395	\$1,658,000
2015	407	\$1,953,600
2016	576	\$5,074,000
2015	594	\$6,217,992
2016	751	\$7,150,000
2015	774	\$5,570,478
2016	1,249	\$42,200,000
2015	1,288	\$37,998,381
2016	720	\$18,661,000
2015	742	\$18,768,979
2016	3,691	\$74,743,000
2015	3,805	\$70,509,430
2016	12,356	\$1,233,942,000
2015	12,475	\$1,146,814,770



#### FRUIT & NUT CROPS

	YEAR	ACRES	TONS/ACRE	TONS	US \$/TON	TOTAL VALUE
Apples	2016	214	1	210	\$2,200	\$462,000
	2015	231	1	231	\$1,677	\$387,272
Total Avocados	2016	17,741	3	57,962	\$2,350	\$136,225,815
	2015	18,344	2	42,905	\$2,574	\$110,454,004
Hass	2016	16,760	3	55,782		\$129,792,499
	2015	17,330	2	39,332		\$102,060,678
Lamb-Hass	2016	733	2	1,685		\$5,807,966
	2015	758	4	3,248		\$7,968,764
Other	2016	248	2	495		\$625,350
	2015	256	1	324		\$424,561
Berries, Misc.	2016	298	9	2,700	\$10,000	\$27,000,000
	2015	317	9	2,853	\$9,800	\$27,962,046
Total Citrus	2016	12,083	15	177,230	\$736	\$130,427,000
	2015	12,498	12	151,589	\$831	\$126,023,691
Grapefruit	2016	1,440	17	24,480	\$780	\$19,094,000
	2015	1,458	16	22,599	\$486	\$10,983,114
Kumquats	2016	79	2	150	\$3,000	\$450,000
	2015	84	3	252	\$3,373	\$850,021
Lemons	2016	3,400	16	55,760	\$1,020	\$56,875,000
	2015	3,550	17	61,912	\$1,137	\$70,393,944

#### FRUIT & NUT CROPS

	YEAR	ACRES	TONS/ACRE	TONS	US \$/TON	TOTAL VALUE
Limes	2016	259	5	1,370	\$1,134	\$1,553,000
	2015	280	6	1,680	\$1,848	\$3,104,640
Oranges	2016	5965	14	82,310	\$491	\$40,414,000
	2015	6,181	8	51,920	\$529	\$27,465,892
Tangerines & Tangelos	2016	940	14	13,160	\$915	\$12,041,000
	2015	945	14	13,226	\$1,000	\$13,226,080
Grapes, Wine	2016	930	3	2,515	\$1,195	\$3,005,000
	2015	969	3	2,907	\$1,456	\$4,232,592
Misc Fruit & Nuts	2016	1,348				\$10,652,000
	2015	1,390				\$11,398,000
Persimmons	2016	270	5	1,270	\$1,379	\$1,751,000
	2015	298	4	1,220	\$1,532	\$1,868,657
Strawberries	2016	290	31	8,990	\$2,100	\$18,879,000
	2015	487	35	17,264	\$2,222	\$38,360,941
Total Fruit & Nuts	2016	33,174				\$328,401,815
	2015	34,534				\$320,687,203

#### VEGETABLE AND VINE CROPS

CROP	YEAR	ACRES HARVESTED	tons/ Acre	TONS TOTAL PRODUCTION	US \$/ TON	TOTAL VALUE
Cucumbers	2016	97	10	970	\$828	\$803,000
	2015	97	9	870	\$592	\$515,218
Herbs/Spices	2016	73	10	730	\$6,000	\$4,380,000
	2015	372	10	3,715	\$5,812	\$21,591,580
Mushrooms	2016			3,320	\$4,813	\$16,000,000
	2015			4,284	\$3,300	\$14,137,200
Peppers	2016	165	19	3,140	\$1,180	\$3,700,000
	2015	73	20	1,468	\$874	\$1,282,024
Potatoes	2016	340	5	1,670	\$271	\$453,000
	2015	257	6	1,491	\$511	\$762,159
Squash	2016	400	10	4,000	\$1,050	\$4,200,000
	2015	373	8	3,079	\$755	\$2,323,577
Tomatoes	2016	1,125	15	16,880	\$2,550	\$43,030,000
	2015	1,249	15	18,440	\$3,182	\$58,666,087
Miscellaneous Vegetables	2016	1,345	14	18,290	\$2,500	\$45,725,000
	2015	1,389	14	18,751	\$2,522	\$47,288,870
Total Vegetable <mark>s</mark>	2016	3,545				\$118,291,000
	2015	3,810				\$146,566,714

#### LIVESTOCK AND POULTRY

COMMODITY	YEAR	NUMBER OF HEAD	WEIGHT CWT	US \$/CWT	TOTAL VALUE
Cattle and Calves	2016	10,850	97,650	\$162	\$15,841,000
	2015	10,800	98,100	\$275	\$26,713,584
Hogs and Pigs	2016	1,220	3,050	\$52	\$159,000
	2015	1,300	3,250	\$50	\$162,500
Chickens	2016		65,000	\$71	\$4,605,000
	2015		68,098	\$57	\$3,906,608
Lambs and Sheep	2016	928	928	\$125	\$116,000
	2015	912	912	\$123	\$112,085
Total Livestock & Poultry	2016				\$20,721,000
	2015				\$30,894,777

			-
	FOREST PRODUCTS	5	
and a	COMMODITY	YEAR	TOTAL
No in	Timber	2016	:
		2015	5
STATES IN	Firewood	2016	\$7
		2015	\$8
	Total Forest Products	2016	\$
		2015	\$8





#### FIELD CROPS

COMMODITY	YEAR	ACRES HARVESTED	tons/ Acre	TONS TOTAL PRODUCTION	US \$/ TON	Total value
Hay, Oat	2016	2,100	1	2,100	\$142	\$298,000
	2015	2,038	1	2,446	\$162	\$396,896
Pasture, Irrigated	2016	902				\$1,745,000
	2015	980				\$1,897,280
Rangeland	2016	195,070				\$1,229,000
	2015	196,050				\$1,235,116
Misc. Field	2016	3,574				\$1,321,000
	2015	1,233				\$455,637
Total Field Crops	2016	201,645				\$4,593,000
	2015	200,301				\$3,984,930

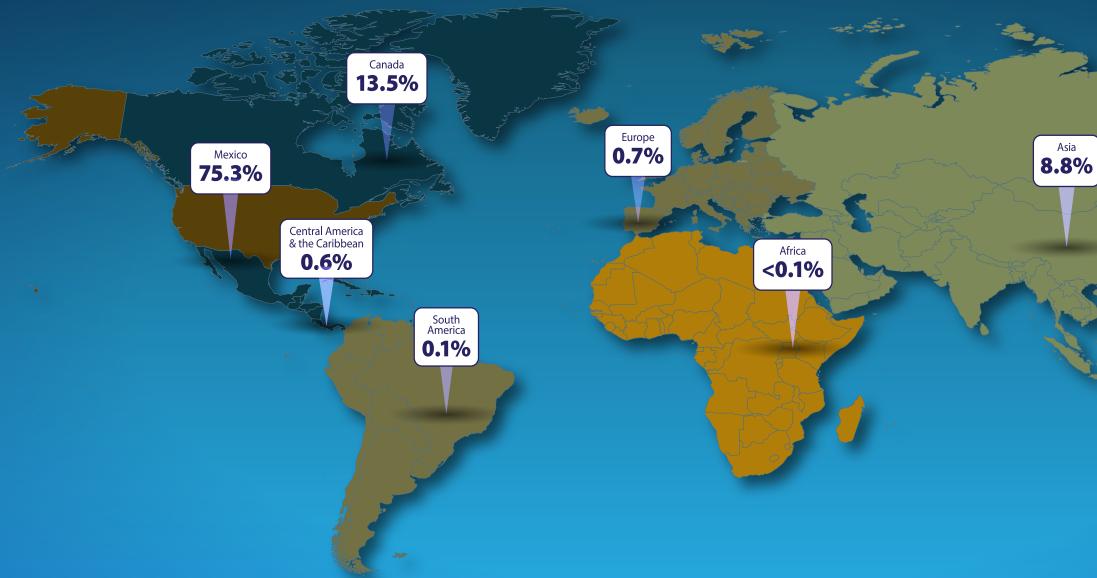
#### LIVESTOCK AND POULTRY PRODUCTS

COMMODITY	YEAR	NUMBER	WEIGHT CWT	US \$/UNIT	TOTAL VALUE
Milk, Market	2016		434,932	\$15	\$6,520,000
	2015		427,538	\$16	\$6,880,000
Eggs, Chicken Market	2016	27,192,480 dz		\$1	\$29,768,000
	2015	30,186,000 dz		\$1	\$40,998,211
Total Livestock and Poultry Products	2016				\$36,288,000
	2015				\$47,878,211



ARY PRODUCTS	5		
MODITY	YEAR	TOTAL VALUE	194
у	2016	\$660,000	-
	2015	\$832,410	and the
Wax	2016	\$27,000	-
	2015	\$25,900	and Marth
ation	2016	\$2,945,000	
	2015	\$3,193,075	
Apiary Products	2016	\$3,632,000	10
	2015	\$4,051,385	

# IN TERNATIONAL TRADING PARTNERS IN 2016 WE CERTIFIED 7,626 SHIPMENTS OF PLANT MATERIAL (INCLUDING FRUITS AND VEGETABLES) GOING TO 42 COUNTRIES



Mexico	5743
Canada	1033
Japan	454
Republic of Korea	103
New Zealand	68
China	26
Taiwan	26

Hong Kong	25
El Salvador	15
Singapore	15
Netherlands	14
Guatemala	13
Germany	10
United Kingdom	8

ıstralia	6	Italy	4	S
nile	6	Thailand	3	S
ain	6	Vietnam	3	U
ited Arab Emirates	6	Bahamas	2	A
osta Rica	5	Belgium	2	В
nidad and Tobago	5	Honduras	2	C
ael	4	India	2	Ir

4	South Africa
3	Sweden
3	Ukraine
2	Antigua and Barbuc
2	Belize
2	Cambodia
2	Ireland

	2
	2
	2
a	1
	1
	1
	1

Latvia	1
Масао	1
Malaysia	1
Panama	1
Romania	1
Russian Federation	1
Venezuela	1

Oceania & Australia **1.0%** 

ustainable 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

"A" Rated Finds	Common Name	Finds
Myllocerus undecimpustulatus	Sri Lankan Weevil	2
Bactrocera dorsalis	Oriental fruit fly	2
Ceroplastes floridensis	Florida wax scale	9
Ceroplastes rubens	red wax scale	3
Ceroplastes rusci	fig wax scale	13
Coccus viridis	green scale	1
Aspidiotus destructor	coconut scale	2
Fiorinia theae	tea scale	1
Hemiberlesia palmae	tropical palm scale	2
Pinnaspis buxi	boxwood scale	1
Pinnaspis strachani	lesser snow scale	16
Pseudaulacaspis cockerelli	magnolia white scale	27
Maconellicoccus hirsutus	pink hibiscus mealybug	4
Diaphorina citri	Asian citrus psyllid	2
Solenopsis invicta	red imported fire ant	14
Epiphyas postvittana	light brown apple moth	194
Allopeas sp.	awl snails	6
Unknown	snail	1

# SUSTAINABLE AGRICULTURE

because of incomplete identification, inadequate information, etc.

Entomology and Plant Pathology Labs provide rapid insect and plant disease identification allowing for a quick response to pests of known economic importance (A-rated) and those suspected of economic importance (Q-rated). When these pests are detected in imports or nursery stock, they are quarantined and eradicated before the plants can be sold. The most common origin of plant pests found on imports are Florida, Hawaii, Puerto Rico, Costa Rica, China, Thailand, and Singapore.

- 5 A-rated pests were identified by the Plant Pathology Lab, 300 A-rated pests were identified by the Entomology Lab.
- 24 Q-rated pests were identified by the Plant Pathology Lab, 118 Q-rated pests were identified by the Entomology Lab.

•••••	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • •
"Q" Rated Finds	Common Name	Finds
Micrapate sp.	grape false powder post beetle	1
Aleurotrachelus sp.	palm-infesting whitefly	1
Bambusaspis miliaris	robust bamboo pit scale	2
Empoasca sp.	leafhopper	1
Ceroplastes sp.	wax scale	2
Milviscutulus mangiferae	mango shield scale	2
Phalacrococcus howertoni	soft scale	2
Diaspidiotus sp.	armored scale	1
Lepidosaphes chinensis	Chinese lepidosaphes scale	26
Lepidosaphes conchiformis	fig scale	1
Poliaspis media	armored scale	1
Dysmicoccus neobrevipes	gray pineapple mealybug	2
Palmicultor guamensis	mealybug	2
Palmicultor palmarum	palm mealybug	3
Planococcus minor	pacific mealybug	1
Pseudococcus jackbeardsleyi	Jack Beardsley mealybug	1
Pseudococcus odermatti	mealybug	1
Zachrysia provisoria	Cuban land snail	6
Parmarion martinsi	semi-slug	7
Hercinothrips bicinctus	passion vine thrips	1
Unknown scientific name	1 aphid, 3 armored scales, 1 beetle, 1 cockroach, 1 cricket, 5 egg masses, 1 ficus thrip, 1 fulgorid plant hopper, 1 geometrid moth, 1 grasshopper, 1 guava moth, 2 leafhoppers, 11 mealybugs, 2 moth, 3 plant hoppers, 1 psyllid, 3 slugs, 11 snails, 2 soft scales, 1 true bug, 1 whitefly.	

#### HIGH-RISK PEST EXCLUSION

- 4,526 incoming plant shipments were inspected.
- 202 Notices of Rejection were issued.
- 214 pests were found (72 A-rated, 52 B-rated, and 90 Q-rated).
- 5 international border operations with Homeland Security, Customs and Border Protection and U.S. Department of Agriculture were conducted.

#### DETECTOR DOG TEAMS

Detector dogs were alerted on 4,476

packages shipped through FedEx and UPS.

- 388 of those packages were not marked as containing plant material and 373 actually contained plant material; this is a 96% accuracy rate.
- 36 inspections were conducted at the USPS main shipping terminal in San Diego County resulting in alerts on 860 packages.
- Of the 860 packages alerted on, 227 Notices of Rejection were issued to shippers in violation of the Food and Agricultural Code.

#### ORGANIC FARMING

San Diego County is at the forefront of organic farming with 392 registered organic producers. In 2016, organic growers produced more than 200 different crops, from avocados to tomatoes. 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, 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.

#### TOP TEN ORGANIC CROPS

Commodity	Acreage
Avocados	3,936
Oranges (Valencia, navel, or other)	1,179
Lemons	982
Grapefruit	583
Squash (summer or winter type)	235
Tangerines and Tangelos	156
Tomatoes	113
Blueberries	104
Strawberries	95
Cucumbers	65

#### INVASIVE / NOXIOUS WEED CONTROL

The Integrated Pest Control Program (IPC) protects the County's agriculture, sensitive habitats, native wildlife, and endangered species by controlling invasive/noxious weeds in cooperation with other County departments and agencies.Additional funding secured by AWM enabled IPC to increase their early detection rapid response efforts on rated and invasive/noxious weeds.

- 4 different species of invasive weeds were removed from a total of 38.42 acres.
- Two A-rated, three B-rated, and two C-rated species of noxious weeds were removed from a total of 264.41 acres.

#### WEED CONTROL PERFORMED ON COUNTY PROPERTY

IPC 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.

We perform weed control work along County roads and right-of-ways. We also control weeds along flood control conveyances to enhance the flow of water.

	Removal Method	Acreage Surveyed/Treated
Habitat Restoration at County Parks	Herbicides/Hand Removal	46.8
Roadside Right of Ways	Herbicides	2,112.7
Airports	Herbicides	866.4
Flood Control District	Herbicides	36.7
Sanitation District	Herbicides	30.5
	Total Acreage	3,093.1



#### STRUCTURAL PEST CONTROL

Integrated Pest Control implements Board of Supervisors Policy F-45, requiring the use of Integrated Pest Management protocols at all county facilities, which is an effective and environmentally sound approach of performing pest control.

We use current scientific information and control methods to manage and eradicate pests by the most economical means with the least possible hazard to people, property, and the environment.

217 county facilities were inspected and treated for various structural pests.

# P R O G R A M S ANDSERVICES

# Programs and Services – 2016 highlights



**Iant 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.

- 4,526 incoming plant shipments inspected
  373 unmarked parcels containing plant ma
- 498 nurseries, comprising 10,558 acres, insp

**Pest Detection** is a critical component of our statewide pest prevention network. Our Pest Detection program placed and serviced 348,182 insect traps throughout the county to detect insect pests, such as exotic fruit flies, Gypsy moth, Glassy-winged sharp shooter, Japanese beetle, and Light Brown Apple moth which pose threats to California's agricultural and horticultural crops. There were several pests detected within the County, and the Pest Detection program assisted both state and federal agencies in conducting activities to promptly and effectively eradicate the pests. Through early detection, damage to crops, the environment and economy, and the subsequent use of pesticides was reduced.

**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.



with 214 actionable pest finds.
aterial intercepted by the Detector Dog Teams.
pected for pests and diseases.

Conducted 1,357 inspections.
Conducted 103 hazardous materials inventory inspections.
Completed 138 pesticide/antimicrobial investigations.
Investigated 62 complaints.
➢ Issued 188 restricted materials permits.
Conducted 29 outreach events involving over 1,500 people.
20 stakeholder meetings were held.
➢ Issued 16 Cease and Desist Orders.
▶ 55 enforcement actions were taken.

Agricultural Standards supports the sustainability of local agriculture, ensures integrity in the 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 and Certified Producers, conducting citrus maturity testing, egg inspections, and pesticide testing of organic produce for pesticide residue.

- ➣ 52 active farmers' markets and 270 local growers certified in San Diego County.
- ▶ 139 fruit and vegetable standardization inspections conducted.
- ▶ 488,748 dozen eggs inspected during 1,216 inspections at 925 egg ranches, wholesale and retail locations.

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.

- $\geq$  194 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 20,112 determina

Plant pathology lab performed 1,982 determ

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.

- 3,396 acres of weeds within the county were
- 217 County facilities treated for structural pes

Civil Actions advocates for the department on civil pen

289 civil actions for weights & measures viola 40 civil actions for structural pesticide use via 34 civil actions for agricultural standards viola ≥ 24 civil actions for agricultural pesticide use ➢ 1 civil action for quarantine violation.

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.

- overcharges.
- 31,794 items scanned at 2,081 retail locations

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treated with herbicides or manually removed.
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54,844 commercial weighing and measuring devices inspected with 94.5% compliance rate. ▶ 358 consumer complaints investigated regarding commercial meters, petroleum, and price

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PROGRAM	SERVICES	NUMBER
Entomology	Insect identification; apiary registration; pest surveys	(858) 614-7738
Integrated Pest Control	Invasive weed control; structural pest control for county owned buildings	(858) 614-7750
Plant Health & Pest Prevention	Licenses to sell nursery products, flowers & Foliage; shipping certificates; Inspections: incoming/outgoing shipments; detector dog teams; nursery; glassy-winged sharpshooter; Light Brown Apple Moth	(760) 752-4700 (760) 752-4713 (Inspection request line)
Pest Detection	Exotic insect trapping	<b>(858) 614-7770</b> <b>(800) 300-TRAP</b> (Request/ Removal of Traps)
Pesticide Regulation	Agricultural and 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	Device & Scanner registration; Weighing & Measuring, Weighmaster, Petroleum, Package/Labeling, Service Agency/ Agents and Scanner Inspections; Consumer Complaints	(858) 694-2778

The 2016 Crop Statistics and Annual Report was produced by 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.



# SAN DIEGO

## SUSTAINING LOCAL AGRICULTURE: THE LIVE WELL SAN DIEGO FOOD SYSTEM INITIATIVE

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t is well known that one of our primary duties is to "promote and protect the agricultural industry of the state" (Food and Agricultural Code §401). Many agricultural programs we carry out are designed to protect agriculture, but how do we promote agriculture? An opportunity came with the formation of the County of San Diego's Live Well San Diego Food System Working Group (Working Group), a responsive, agile, and collaborative team that came together with the goal of integrating food system efforts across County departments.

Agriculture, Weights and Measures took a leadership role in the Working Group which identified ways to promote the sustainability of local agriculture while examining holistically how all the activities of the food system (which includes inputs, crop and animal production, processing and storage, distribution, preparation, retail and acquisition, consumption and waste management, including composting) affect one another.

Food and agriculture can positively contribute to the health and sustainability of a community. Challenges and opportunities in the local food system in San Diego County include:

 1 out of 6 San Diegans are not always certain of where and how they will get their next meal. Low-income children are at the highest risk. Often the meals that they receive lack vitamins and minerals necessary for development which can lead to long term developmental, growth, and cognitive delays.



- Poor diet, along with lack of physical activity and tobacco use, contributes to more than 50% of deaths nationwide.
- 40% of the food produced in the nation is wasted. Food scraps going to landfills results in significant greenhouse gas emissions—accelerating the effects of climate change. A significant portion of this food can be recovered and donated, helping to eliminate food insecurity.

The County of San Diego's vision is "a region that is building better health, living safely and thriving." In line with that vision, County departments were working with various parts of the local food system, yet were often not coordinating with one another. It was apparent that there was a need for a new structure to be a vehicle for broader communication and coordination; one that would provide a needed mechanism for synergy to provide better customer service to our residents and stakeholders. The Working Group provided that new cohesive structure.



While formed in 2014, the collective impact of the Working Group expanded rapidly in 2015. Agriculture, Weights and Measures chaired the Working Group and was joined by Environmental Health, University of California Cooperative

Development Services, Public Works, and the Health and Human Services Agency in working together to overcome obstacles, increase access to healthy food, and provide optimal service to those in the food system that are affected by policies and regulations overseen by the multi-sectoral departments.

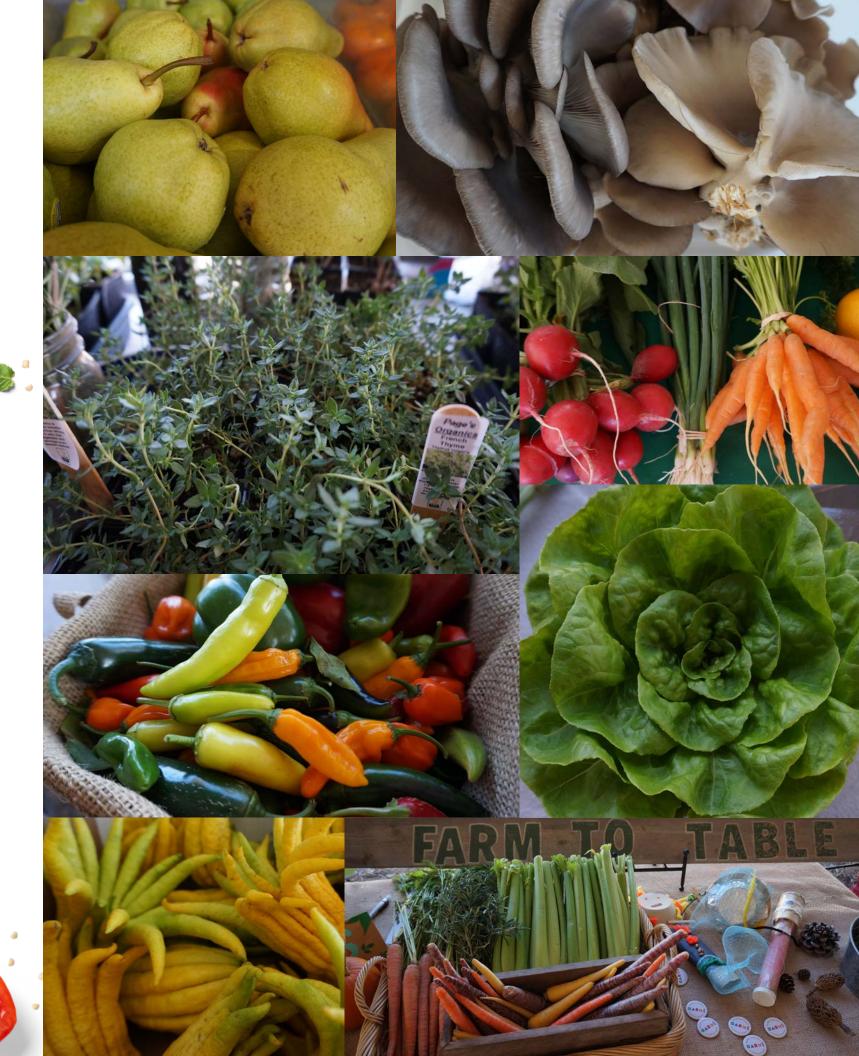
The Working Group developed a strategic Action Plan which builds on a number of efforts the County has embarked on to advance the food system in the region, including the promotion of locally grown/raised agricultural products with the "San Diego Grown 365" brand; continued administration of the Purchase of Agricultural Conservation Easements Program; agricultural pesticide container recycling events; connecting gleaning organizations for collective impact in harvesting excess produce from residences, farmers' markets, and farms; implementing a strategy to increase the availability fresh fruits and vegetables at retail stores in underserved neighborhoods with the Live Well Community Market Program; the development of the County Eat Well Practices to expand healthy and sustainable food and beverage options offered by the County (including an emphasis on purchasing locally grown agricultural products); the creation of the "Too Good to Waste" food donation guide for organizations to safely donate food items; and active involvement in the formation of a Food Recovery Working Group within the San Diego Food System Alliance.

These successes led to the Working Group being awarded a 2016 Achievement Award from the National Association of Counties in the area of Community and Economic Development.

Extension, Parks and Recreation, Planning & In June 2016, the efforts of the Working Group culminated in a countywide initiative with the County Board of Supervisors (Board) direction to develop and implement the Live Well San Diego Food System Initiative (Initiative). Per the Board's direction, the Working Group developed a framework for the Initiative, which defines the County's role in addressing challenges in the food system and in pursuing opportunities to improve the food system in the region. The framework identifies a set of strategies and priority actions that will be the main focus of the Initiative in its first five years of implementation.

> The priority actions for the Initiative include developing a biennial State of the Food System Report to identify and track comprehensive metrics for progress in improving the food system countywide, promoting and increasing food donation to address food insecurity countywide, implementation of the Live Well Community Market Program, and the implementation of the Eat Well Practices. 🔎

Promoting agriculture via the Initiative has been fruitful and rewarding on so many levels. Not only is the demand for locally grown products increasing, but we are helping facilitate donation of excess locally grown produce and working towards other avenues of recovery that will provide fresh produce for those most in need. Due to Agriculture, Weights and Measures' involvement in the Initiative, our story is being told in places it has never been told before increasing awareness of our vital mission and activities. The Initiative is contributing to the sustainability of local agriculture...and so much more.





#### Megan Moore

Assistant Agricultural Commissioner/Sealer of Weights & Measures

#### **ADMINISTRATION** HR Shirley Chin, Sr. HR Officer Belinda Rushton, HR Specialist Tamieka Lyons, Student Worker Alena Student, Student Worker **FISCAL** Max Endoso, Principal Admin Analyst Mark Lindstrom, Admin Analyst III Aida Foronas, Sr. Accountant Linda Goff, Admin Analyst I Armando Belenzo, Accounting Technician Erlinda Espiritu, Purchasing Clerk Sandra Luck, Office Support Specialist Eileen Oleson, Office Assistant Cirila Pieper, Account Clerk Specialist ORA

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Ian Hudson Mark Lyles **Bonnie Wheeler** 

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**Kim Greene Monica Winters Nestor Silva** 

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#### **INTEGRATED PEST MGMT**

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Paul Cadena **Dustin Hylton** Ivan Robles

#### **PEST MGMT TECHNICIAN I:**

Danny Luna Marcel Sanchez Joseph Wilson

Walter Graves, Land Use/Environ. Planner II



#### Ha Dang

Agricultural Commissioner/Sealer of Weights & Measures

Raymond Wood

#### Marisela Garcia-Centeno **Deputy Director**

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#### SR. ASI: Colleen Carr Kristi Conway Daniel Desserich Chase Goodman Kara Roskop-Waters Austin Shepherd Kathryn Springer Jennepher Tate-Murphy Nancy Wickus

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