

2015 Annual Report

San Luis Obispo County Department of Agriculture | Weights & Measures



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Calendar Year Contributions Brett Saum, Melissa Taylor-Burns Project Contributors

Project Managers: Lynda Auchinachie, Brenda Ouwerkerk Photography: Ag Department Staff and as designated Graphic Design: Penny Burciaga **Cover Photo Credits**

Top, center photo "Surviving the Drought" by John Busselle Avocado stumps by Mark Battany Lower left corner rangeland by Royce Larsen

Financial Report Fiscal Year 2014-15

REVENUE	\$5,720,070	
STATE FUNDS FEDERAL FUNDS COUNTY FUNDS COLLECTED FEES	1,811,225 988,203 2,329,827 590,815	32% 17% 41% 10%
EXPENDITURES	\$5,720,070	
SALARIES AND BENEFITS SERVICES & SUPPLIES OVERHEAD EQUIPMENT	4,689,019 544,728 473,437 12,886	82% 10% 8% 0.2%
FUNDING DISTRIBUTION BY PR AGRICULTURAL RESOURCES	OGRAM AREAS: \$340,402	
STATE FUNDS COUNTY FUNDS COLLECTED FEES	59,697 259,960 20,745	18% 76% 6%
WEIGHTS AND MEASURES	\$744,495	
STATE FUNDS COUNTY FUNDS COLLECTED FEES	9,083 502,831 232,581	1% 68% 31%
PESTICIDE USE ENFORCEMENT	\$1,479,496	
STATE FUNDS COUNTY FUNDS COLLECTED FEES	837,746 617,360 24,390	57% 42% 1.6%
PEST MANAGEMENT	\$348,899	
STATE FUNDS COUNTY FUNDS COLLECTED FEES	145,812 203,087 0	42% 58% 0%
PRODUCT QUALITY	\$235,468	
STATE FUNDS COUNTY FUNDS COLLECTED FEES	96,976 110,037 28,455	41% 47% 12%
PEST PREVENTION	\$2,571,310	
STATE FUNDS FEDERAL FUNDS COUNTY FUNDS COLLECTED FEES	661,911 988,203 636,552 284,644	26% 38% 25% 11%
1 12		

The Department would like to thank the following staff members for their dedication and lasting contributions made during their successful careers with the Department, representing 70.5 total years of professional public service. We wish them well in their retirements.

Administrative Assistant

Debbie Schmitz 12.5 years

Agricultural Inspector/ Biologists

Judy Groat 29.5 years John Schmitz 28.5 years



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF AGRICULTURE/WEIGHTS AND MEASURES

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Karen Ross, Secretary California Department of Food and Agriculture and The Honorable Board of Supervisors San Luis Obispo County

In accordance with Sections 2272 and 2279 of the California Food and Agricultural Code, I am pleased to release the 2015 Annual Crop Report for San Luis Obispo County. It is important to note that the values represented in this report do not reflect net profits for producers, but rather, the gross value of agricultural commodities produced within the county.

Overall 2015 crop values decreased from \$900,070,000 in 2014 to \$828,800,000 representing an 8% decline which is directly attributable to the cumulative impacts of the ongoing drought, growing conditions for major crops, markets, and water availability. Based on these and other less significant factors, crops responded in both positive and negative ways.

Strawberries remained the highest value crop reaching a record of \$222,604,000. Favorable growing conditions and the availability of irrigation water in strawberry growing regions allowed growers to produce abundant, high quality fruit. Increased yields also contributed to a remarkable year.

Wine grape production was hampered by the continuing drought and less than optimal growing conditions. A combination of accumulated salts in the soil due to the lack of rain, colder than normal spring temperatures, and wind negatively impacted yields bringing them to levels not seen since 1999. However, the overall quality of harvested fruit was reported to be high. Although prices were modestly higher than 2014, the decline in yields brought the overall gross value of wine grapes down 28% to \$146,435,000.

Over the past few years, the animal industry enjoyed record values, although for less than desirable reasons. Livestock values spiked in 2013 and 2014 in response to drought conditions which prompted the sell-off of cattle that could no longer be sustained on rangeland with declining forage production. Predictably, by 2015, the cattle inventory in the county was significantly depleted as indicated by a 59% drop in the number of head sold. This decline in the number of cattle sold drove a 48% difference in overall value. The animal industry ended the year at \$70,659,000.

Despite drought conditions, vegetable crops fared well ending the year 10% higher at \$214,059,000. Growers strategically planted fewer acres to address both water availability issues and labor shortages. This strategy helped growers to maximize the acreage planted and made strides towards balancing production inputs. Although this approach was successful overall, some growers were not able to harvest all acres planted as labor shortages continued to be a challenge.

This year's theme story looks at the impacts of drought in San Luis Obispo County depicting the challenges faced by our local agriculturalists. Although challenged by drought conditions, local farmers and ranchers showed their resilience by addressing adverse conditions through innovation, perseverance and a strong will to overcome obstacles the drought imposed.

My sincere appreciation goes out to all of the ag producers and businesses who provided input to this report. Without their knowledge, expertise, and desire to contribute, this report would not be possible. Also, I would like to express gratitude to my staff for their efforts in compiling and analyzing this information and for their continued dedication to our mission of protecting agriculture and ensuring consumer protection.

Respectfully submitted, Martin Settevendemie

Agricultural Commissioner/Sealer

FEATURED STORY:

Weathering the Drought

What does the future hold?

San Luis Obispo County's central coast location has historically provided innovative agricultural producers with favorable weather conditions and critical rainfall for both irrigation and groundwater recharge. This, combined with close proximity to main transportation corridors, allows producers to grow and ship commodities to local, domestic and international markets.

Visible to the eye of residents and visitors alike are the seasonably lush green rolling hills that rim the county which sustain a variety of types of livestock, and flat fertile lands abounding with a vast variety of vegetables, berries and field crops. Orchards of half century old nut trees, numerous kinds of citrus and well established avocado trees consistently produce high quality fruit and nut crops. Additionally, wine grapes, planted in rows that meet the horizon, help to round out an intensely productive and diverse agricultural industry. All of this coupled with the hard work of farmers, ranchers and laborers, brings forth an abundance of food representing over 100 different crop types and results in a combined gross value of \$828,800,000 in 2015.

However, the local landscape of the county looked very different in 2015 due to the four year cumulative impacts of drought and warmer than average temperatures. For twelve consecutive months in 2015, the U.S. Drought Monitor declared San Luis Obispo County, in its entirety, to be at the D-4 Exceptional Drought Stage, the most critical rating on this drought intensity scale (Figure 1). On April 1, 2015, Governor Jerry Brown issued Executive Order B-29-15 which

declared that California's water supplies continued to be severely depleted, severe drought conditions presented urgent challenges including diminished water for agricultural production, drinking water shortages in communities across the state, reduced flows in the state's rivers and shrinking supplies in groundwater basins. The order, a continuation of the Governor's January 17, 2014 State of Emergency declaration for severe drought conditions throughout California, called for all Californians to conserve water.

Rainfall in San Luis Obispo County in 2015 was well below average. Rainfall amounts across the county were as variable as the terrain and topography itself and far below the average annual range of up to 10 inches in the eastern side of the county to more than 40 inches annually in the higher coastal mountain elevations. The limited amounts of rain that fell did not arrive at the optimal time to germinate seeds of the natural forage grasses and plants, vital to the health of rangeland areas that ultimately provides food for livestock and wildlife. With diminished grazing capacity, noticeably fewer cattle were seen on rangeland in 2015. Ranchers sustained animal numbers at roughly half that of historical herd sizes. Stock ponds ran dry and water had to be delivered to the cattle to sustain herds. Wildlife competed more than ever with livestock for limited feed and water. Streams and springs that normally ran year-round disappeared. And, when the rain did arrive in mid-July, hay crops that were harvested but laying in the field to be collected were damaged by the untimely moisture.

PHOTOS: ROYCE LARSEN, UNIVERSITY OF CALIF. COOPERATIVE EXTENSION, SLO COUNTY FORAGE PRODUCTION PROJECT



Huasna, May, 2006



Huasna, April, 2015



Hwy. 58, May, 2006





Morro Bay, May, 2006



Morro Bay, April, 2015



Shandon, May, 2006



Shandon, April, 2015

FEATURED STORY CONTINUED: WEATHERING THE DROUGHT - WHAT DOES THE FUTURE HOLD?

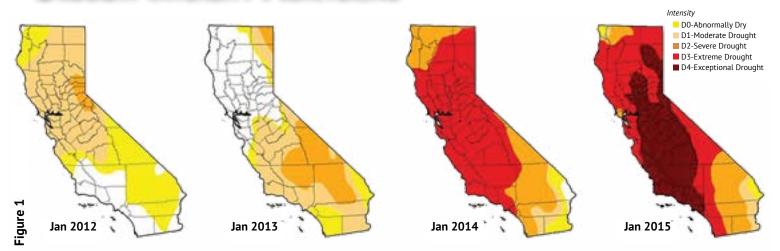
Groundwater basins are the primary sources of irrigation water in San Luis Obispo County, with minor amounts coming from local surface water. Several groundwater basins were not adequately recharged as a result of the cumulative impact of below normal rainfall for eight of the past nine years, and could not provide adequate irrigation water. Salts, which are naturally occurring dissolved minerals found in groundwater used for irrigation, tend to accumulate in the surface soil causing crop damage, reduced yields and negative impacts to crop quality. Without normally abundant rainfall and water for extra irrigation needed to flush the salts downward and away from the root zone of plants, growers faced the increased challenge of managing soil health and salinity levels.

Despite these challenges, agricultural producers conserved water while continuing to produce high quality crops. Overall, the combined value of all agricultural production in 2015 was reduced by only 8% compared to 2014.

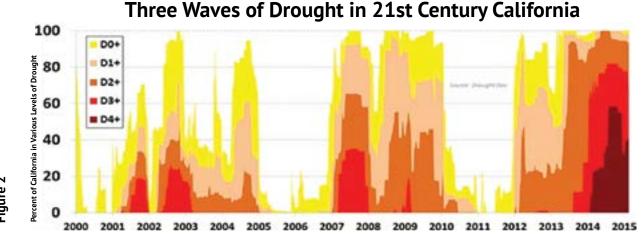
Conversely, some nursery stock growers were positively impacted by outdoor water use restrictions called for in the Governor's Executive Order. Producers were able to meet new demands for drought tolerant plant varieties.

The drought impacts felt in 2015 brought many changes to both the agricultural areas as well as the urban setting. Many producers estimate that it will take three to five years to recover from the impacts of the prolonged drought. Groundwater and soil health management will remain a key challenge. And the question remains, will the changes to the climate experienced in 2015 become the new reality for the future, or simply a continuation of drought cycles seen in the past? (Figure 2). Agricultural producers are already planning for the future and will weather what the future will bring.

DROUGHT INTENSITY MONITORING



Source: US Drought Monitor, National Drought Mitigation Center



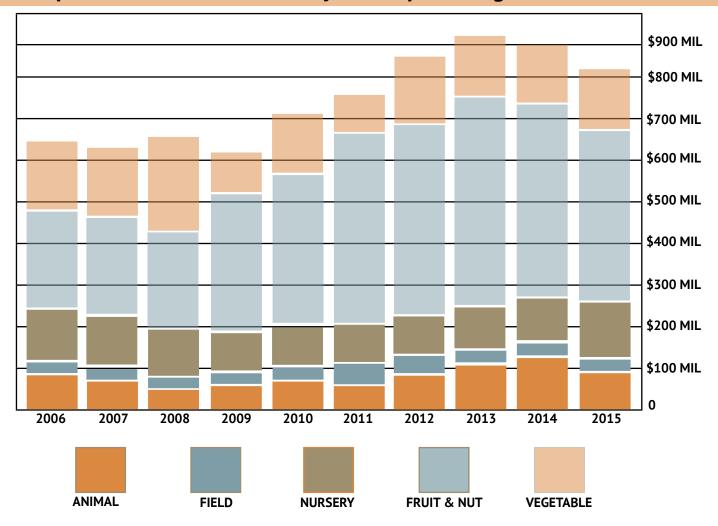
Source: US Drought Monitor, National Drought Mitigation Center

Top 10 Value Crops



#	Crop	\$ Value	%
1	Strawberries	222,604,000	27%
2	Wine Grapes all	146,435,000	18%
3	Cattle and Calves	66,000,000	7%
4	Broccoli	47,759,000	6%
5	Vegetable Transplants	38,730,000	5%
6	Cut Flowers	27,629,000	3%
7	Head Lettuce	25,485,000	3%
8	Leaf Lettuce	16,893,000	2%
9	Avocados	16,613,000	2%
10	Lemons	16,417,000	2%
11	All Other Crops	204,235,000	25%

Comparison of Valuation of Major Groups During the Past Ten Years



COMPARISON OF VALUATION

of Major Groups During the Past Ten Years

YEAR	ANIMAL	FIELD	NURSERY	FRUIT & NUT	VEGETABLE	TOTAL VALUE
2015	70,659,000	15,600,000	100,138,000	428,344,000	214,059,000	\$828,800,000
2014	135,017,000	16,812,000	84,394,000	*468,518,000	195,329,000	*900,070,000
2013	100,865,000	16,365,000	97,651,000	468,355,000	237,896,000	921,132,000
2012	73,857,000	24,612,000	95,155,000	463,296,000	204,900,000	861,820,000
2011	71,479,000	22,929,000	96,454,000	366,570,000	174,981,000	732,413,000
2010	57,139,000	18,545,000	94,708,000	365,750,000	176,666,000	712,808,000
2009	55,375,000	15,178,000	93,759,000	271,474,000	187,309,000	623,095,000
2008	53,848,000	17,790,000	101,845,000	229,661,000	199,778,000	602,922,000
2007	60,078,000	15,462,000	107,674,000	235,135,000	219,746,000	638,095,000
2006	64,244,000	17,477,000	108,066,000	236,491,000	204,336,000	630,614,000

^{*}Revised

015 Trading Partners

In 2015 staff inspected and certified 2,809 shipments of agricultural products for export.

EUROPE

- Albania
- Azerbaijan
- Belgium
- Italy
- Netherlands
- Spain
- Turkey
- United Kingdom

AFRICA

- Algeria
- Egypt
- Kenya
- Libya
- Morocco
- Mozambique
- South Africa
- Tanzania
- Tunisia

ASIA

- China
- Iraq
- Israel
- Japan
- Jordan
- Korea
- Lebanon
- **Oman**
- **Pakistan** Republic of
- Kuwait
- Saudi Arabia
- Singapore

- Sri Lanka
- Syrian Arab
- Taiwan
- Thailand
- **United Arab Emirates**
- Vietnam
- Yemen

NORTH AND CENTRA **AMERICA**

- Canada
- Dominican Republic
- Jamaica
- Trinidad and Tobago
- El Salvador
- Guatemala
- Honduras
- Mexico

SOUTH **AMERICA**

- Argentina
- Bolivia
- Brazil
- Chile
- Colombia
- Costa Rica
- **Ecuador**
- Peru

AUSTRAL

- New Zealand
- French Polynesia

Animal Industry

The impact of the fourth consecutive year of drought on cattle production was dramatic. Severe drought conditions forced the sale of cattle beginning in 2013 and spiking to a record high by 2014. By 2015, herd sizes had been significantly reduced as evidenced by the sharp decrease in sales

COMMODITY	YEAR	NUMBER OF HEAD	PRODUCTION	UNIT	\$ PER UNIT	GROSS VALUE
Cattle and Calves	2015 2014	55,000 120,000	440,000 1,080,000	Cwt Cwt	150.00 120.00	\$66,000,000 129,600,000
*Miscellaneous	2015 2014					4,659,000 5,417,000
TOTAL ANIMAL INDUSTRY	2015 2014					\$70,659,000 \$135,017,000

^{*} Aquaculture, Eggs, Goats, Lambs, Sheep, Wool, Chickens, Pigs, Bees, Honey, Milk

recorded by year end. The number of head of cattle sold in 2015 was less than half the number sold in 2014. Demand and prices for the limited inventory of cattle were strong, a reflection of the negative impact of the drought on cattle production areas throughout California. The total value of the animal category plunged 48% compared to 2014.



Field Crops

Grain and hay growers who ventured to plant a crop amidst a severe drought were rewarded with solid vields as late spring rains helped to maintain production. However, prices were down, a reflection of the decreased demand for feed due to the reduction in livestock numbers statewide. The total value for field crops dropped 7% below 2014 values.

CDOD	VEAD	ACREAGE		PRODUCTION			GROSS VALUE		
CROP	YEAR	PLANTED	HARVESTED	PER ACRE	TOTAL	UNIT	\$ PER UNIT	\$ TOTAL	
Alfalfa Hay	2015 2014	1,691 2,455	1,682 2,441	5.65 6.06	9,503 14,792	Ton Ton	225.00 284.00	2,138,000 4,201,000	
Barley	2015 2014	8,576 8,068	5,950 5,194	0.62 0.19	3,689 987	Ton Ton	191.00 265.00	705,000 262,000	
++Grain Hay	2015 2014	13,284 7,252	11,673 5,998	1.80 1.67	21,011 10,017	Ton Ton	168.00 255.00	3,530,000 2,554,000	
Grain Stubble	2015 2014		4,094 2,966			Acre Acre	17.00 13.00	70,000 39,000	
Rangeland, Grazed	2015 2014		1,015,000 1,015,000			Acre Acre	7.00 7.00	7,105,000 7,105,000	
*Miscellaneous	2015 2014	3,028 2,438	**4,122 **3,475					2,052,000 2,651,000	
TOTAL FIELD CROPS	2015 2014	26,579 20,213	1,042,521 1,035,074					\$15,600,000 \$16,812,000	

^{*} Irrigated Pasture, Green Chop, Oats, Safflower, Sudan Grass, Wheat, Seed, Dried Beans, Straw, Teff

⁺⁺ Includes winter forage

^{**} Harvested acres includes irrigated pasture

Fruit & Nut Crops

For the second year in a row, the strawberry industry was the top valued crop for 2015. Strawberries benefitted from the dry weather conditions that plagued other crops. Over 3,400 acres were planted, meeting the high demand for fresh berries for processing. Mild temperatures and limited rainfall resulted in good production levels, low disease pressure and high quality fruit. Growers continued to diversify by planting blackberries, raspberries and blue berries. The plastic hoop greenhouses visible primarily in the south county area are evidence of this expansion.

Unusually cool spring temperatures and strong winds caused wine grape blossoms to shatter before the fruit was set on the vines in many areas, resulting in a 31% drop in yields for wine grapes, compared to 2014. Further impacting production was salt accumulation in the soil. Well below normal seasonal rainfall hindered salts, (minerals naturally found in ground water), from leaching out of the root zone, causing increased stress to vines and reduced production. Despite prices remaining favorable, the value for all wine grapes decreased 28% compared to 2014.

Avocado trees continued to be severely pruned or stumped throughout the county in 2015. Stumping is a cultural practice aimed at reducing the leaf canopy and water demands of trees in response to lack of water for irrigation. Ongoing drought conditions created salt build up in the soil from lack of leaching rains, negatively affecting production levels and impacting overall fruit size. Total production yields for avocados decreased by 10% over 2014. It will take several years for avocado trees to rebound once normal amounts of rainfall returns to the avocado growing regions.

Dryland farmed walnut trees were especially hard hit by the continued drought. Loss of half century old trees, limb dieback and low yields contributed to an overall 25% reduction in value compared to 2014. The drought impacts and low prices forced some orchards to be left unharvested.

The total value for the fruit and nut category decreased 9% compared to 2014.

		۸۲۱	REAGE	DP∩D	UCTION		GROSS VALUE		
CROP	YEAR	ACI	BEARING/	PER	OCTION	UNIT	\$ PER	33 VALUE	
		PLANTED	HARVESTED	ACRE	TOTAL		UNIT	\$ TOTAL	
Avocados	2015	4,308	^4,107	2.208	9,068	Ton	1,832.00	16,613,000	
	**2014	4,297	^4,031	2.495	10,057	Ton	1,968.00	19,793,000	
Grapes, Wine (All)	2015 2014	46,865 44,754	39,017 37,408		98,781 142,649	Ton Ton		146,435,000 203,785,000	
Chardonnay	2015 2014		3,248 3,318	3.854 5.105	12,518 16,938	Ton Ton	1,397.00 1,327.00	17,487,000 22,477,000	
Sauvignon Blanc	2015 2014		605 727	6.147 9.102	3,719 6,617	Ton Ton	1,299.00 1,220.00	4,831,000 8,073,000	
White Wine (Other)	2015 2014		2,061 2,012	2.372 3.496	4,889 7,034	Ton Ton	1,398.00 1,293.00	6,834,000 9,095,000	
Cabernet Sauvignon	2015 2014		14,043 12,895	2.183 3.761	30,656 48,498	Ton Ton	1,545.00 1,465.00	47,363,000 71,050,000	
Merlot	2015 2014		5,100 4,887	3.444 4.367	17,564 21,342	Ton Ton	1,053.00 1,057.00	18,495,000 22,558,000	
Pinot Noir	2015 2014		2,350 2,399	1.692 2.677	3,976 6,423	Ton Ton	2,990.00 2,683.00	11,888,000 17,233,000	
Syrah	2015 2014		3,285 3,264	1.994 3.312	6,550 10,810	Ton Ton	1,413.00 1,364.00	9,256,000 14,745,000	
Zinfandel	2015 2014		2,857 2,826	2.251 2.613	6,431 7,384	Ton Ton	1,480.00 1,407.00	9,518,000 10,390,000	
Red Wine (Other)	2015 2014		5,468 5,080	2.282 3.465	12,478 17,602	Ton Ton	1,664.00 1,600.00	20,763,000 28,164,000	
Lemons	2015 2014	1,645 1,656	1,412 1,423	16.126 13.612	22,770 19,370	Ton Ton	721.00 819.00	16,417,000 15,864,000	
Strawberries (All)	2015 2014		3,412 3,470		140,683 135,143	Ton Ton		222,604,000 205,765,000	
Fresh	2015 2014			31.032 29.640	105,881 102,851	Ton Ton	1,800.00 1,735.00	190,586,000 178,446,000	
Processed	2015 2014			10.200 9.306	34,802 32,292	Ton Ton	920.00 846.00	32,018,000 27,319,000	
English Walnuts	2015 2014	2,015 2,062	2,015 2,062	0.157 0.190	316 392	Ton Ton	2,795.00 3,001.00	884,000 1,176,000	
*Misc.	2015 2014	2,794 2,608	2,406 2,279					25,391,000 22,135,000	
Total Fruit & Nut Crops	2015 2014	57,627 55,377	52,369 50,673					\$428,344,000 \$468,518,000	

^{*} Apples, Apricots, Asian Pears, Blueberries, Caneberries, Feijoas, Figs, Grapefruit, Kiwis, Limes, Mandarin Oranges, Navel Oranges, Olives, Passion Fruit, Peaches, Persimmons, Pistachios, Pomegranates, Specialty Citrus, Table Grapes, Valencia Oranges

** Revised

^ Includes stumped acreage



PHOTO CREDIT: BY MARK BATTANY

Nursery Products

Vegetable and perennial ornamental plant seedling transplants were in high demand in 2015. Vegetable growers transitioned from traditional direct field seeding to planting transplants. By utilizing transplants, growers were able to reduce the amount of irrigation water required to germinate seeds.

Water use restrictions that went into place across California in 2015 created mixed results for nursery stock producers. Succulents and other drought tolerant plants remained popular throughout 2015. A slight rebound in housing construction created an increased demand for drought tolerant ornamental landscape plants.

However, consumer interest shifted from thirsty bedding plants and lawns to permanent landscape plants. The resulting 19% rebound in value restored production values to historic levels, compared to 2014.



The second second	CROP	YEAR	FIELD PRODUCTION (Acres)	GREENHOUSE PRODUCTION (sq ft)	GROSS VALUE
1	Cut Flowers and Greens	^2015 ^2014	64 129	6,638,024 2,794,974	\$27,629,000 27,043,000
No.	Outdoor Ornamentals	2015 2014	71 69	57,210 75,980	10,173,000 10,306,000
	Vegetable and Ornamental	2015 2014	30 28	1,713,820 1,763,990	38,730,000 33,679,000
1	*Miscellaneous	2015 2014	107 136	1,996,220 1,989,570	23,606,000 13,366,000
100	TOTAL NURSERY PRODUCTS	2015 2014	272 362	10,405,274 6,624,514	\$100,138,000 \$84,394,000

^{*} Aquatic, Bedding plants, Bulbs, Cacti, Christmas Trees, Fruit-Nut trees, Ground Cover, Herbs, Indoor Decorative, Propagative plants, Scion wood, Flower seed, Sod, Specialty plants, Succulents

[^] Includes cut flowers grown in greenhouse and field

Vegetable Crops

Vegetable crops were in high demand in 2015, due to reduced production throughout California's drought stricken vegetable production areas. This is reflected in the strong prices for most vegetable varieties. Broccoli, cabbage, cauliflower, celery, head and leaf lettuces and spinach enjoyed particularly strong demand and prices. However, an overall 6% reduction in harvested acreage was reported, as growers left fields fallow due to lack of irrigation water and insufficient farm labor. Crop damage and reduced yields due to increased soil salinity from the fourth consecutive year of drought was widely reported. Overall, the value for all vegetables increased 10% compared to 2014.



PHOTO CREDIT: SURENDRA DARA

Thore					CREDIT. JURENDRA DARA		
CROP	YEAR	HARVESTED	PRODUC	TION	UNIT	GROSS VALUE	
CROP	TEAR	ACREAGE	PER ACRE	TOTAL	OINIT	\$ PER UNIT	\$ TOTAL
Bell Peppers	2015	710	12.459	8,846	Ton	639.74	5,659,000
	2014	877	12.089	10,602	Ton	677.94	7,188,000
Bok Choy	2015 2014	267 **	16.066	4,290	Ton	503.83	2,161,000
Broccoli	2015	7,398	5.120	37,878	Ton	1,260.86	47,759,000
	2014	9,878	6.350	62,725	Ton	911.25	57,158,000
Cabbage	2015	582	21.232	12,357	Ton	436.71	5,396,000
	2014	720	20.358	14,658	Ton	327.82	4,805,000
Cauliflower	2015	1,920	7.966	15,295	Ton	849.99	13,000,000
	2014	1,725	13.061	22,530	Ton	598.20	13,478,000
Celery	2015 2014	826	23.832	19,685	Ton	605.56	11,921,000
Lettuce, Head	2015	3,290	14.835	48,807	Ton	522.16	25,485,000
	2014	3,588	15.830	56,798	Ton	360.57	20,480,000
Lettuce, Leaf	2015	1,852	13.435	24,882	Ton	678.95	16,893,000
	2014	881	12.270	10,810	Ton	637.68	6,893,000
Peas	2015	211	2.519	532	Ton	2,083.14	1,107,000
Edible Pod	2014	333	1.545	514	Ton	2,414.54	1,242,000
Squash	2015	260	26.281	6,833	Ton	324.19	2,215,000
	2014	131	26.414	3,460	Ton	378.49	1,310,000
*Miscellaneous	2015 2014	10,024 9,273					82,463,000 68,768,000
TOTAL VEGETABLE CROPS	2015 2015	27, 340 28,977					\$214,059,000 \$195,329,000

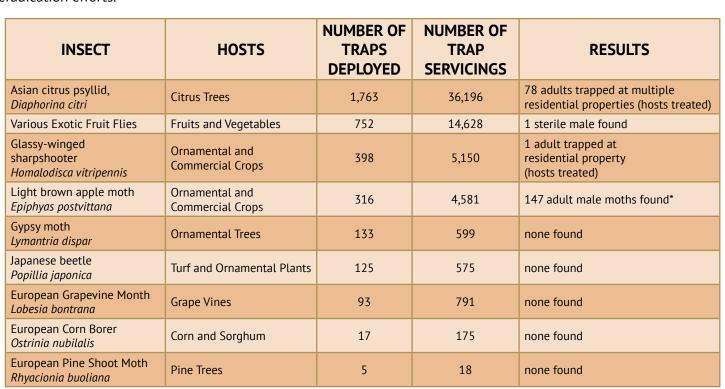
^{*}Anise, Artichokes, Arugula, Basil, Beans, Beets, Brussel Sprouts, Carrots, Chard, Chili Peppers, Cilantro, Collards, Cucumbers, Daikon, Dandelion, Dill, Endive, Escarole, Fennel, Garlic, Green Onions, Green Garbanzo Beans, Herbs, Kale, Leeks, Melons, Mushrooms, Mustard Greens, Napa Cabbage, Onions, Parsley, Potatoes, Pumpkins, Radishes, Spinach, Sweet Corn, Tomato, and Tomatillo

^{**}Miscellaneous

Sustainable Ag Report

PEST DETECTION PROGRAM ACTIVITIES

The Pest Detection Program's focus is the search for targeted insect pests outside of a known infested area or insects not known to occur in California. Most traps are placed in residential settings where the risk of the inadvertent introduction of pests is the greatest. The detection of pests at their lowest population level is essential to the success of eradication efforts.



^{*}Monitoring and quarantine restrictions are in place.

THE SEARCH FOR ASIAN CITRUS PSYLLID: PEST DETECTION AND CONTROL EFFORTS UNDERWAY

The Asian Citrus Psyllid (ACP) is an insect that feeds on citrus. ACP is the primary vector of Huanglongbing, also called citrus greening, a plant disease that is fatal to all types of citrus trees. Although Huanglongbing does not occur in San Luis Obispo County, the disease has been identified at several residential sites in Los Angeles County. The disease does not affect human or animal health, but it has devastated the citrus industry in Florida. Citrus trees commonly planted in residential landscapes are affected by this plant disease as well.

Asian Citrus Psyllid has been found within San Luis Obispo County on residential citrus trees. The California Department of Food & Agriculture (CDFA), with support from the County Department of Agriculture/Weights and Measures, has responded with targeted insecticide applications to citrus trees in an effort to eradicate this pest. There are no known established populations of ACP within San Luis Obispo County.

In 2015, staff deployed 1,763 traps designed for the early detection of ACP, and serviced those traps over 36,000 times. This trapping protocol led to the early detection of ACP and enabled CDFA to respond while the population levels were still low. This response is an important step in preserving citrus trees found in landscapes and protecting the future of our local citrus industry, which produced approximately \$17,900,000 in gross revenue in 2015.



PEST SPECIES INTERCEPTED IN SAN LUIS OBISPO COUNTY IN 2015

Pest Exclusion Program Activities:

In order to protect local agriculture and the environment from the introduction of pests that do not currently occur in San Luis Obispo County, incoming plant shipments originating from across the United States and the world were inspected by Agricultural Commissioner staff. Certain intrastate shipments (shipments originating from within California) were inspected as well, depending on quarantine restrictions. During 2015, staff visually inspected 5,417 shipments of incoming plant material and found 38 separate instances of live pests. These shipments were rejected, and then either destoyed, returned, or reconditioned prior to release.

PEST SPECIES COMMON NAME - SCIENTIFIC NAME	NUMBER OF SHIPMENTS REJECTED OR DESTROYED	HOST PLANT/ IMPACTED CROPS	DETECTION METHOD					
INSECTS								
Ant, big-headed Pheidole megacephala	1	Listed as one of the "World's 100 Worst Invaders"	Common Carrier Shipment					
Ant - Pheidole sp.	1	Displaces native ants	Airfreight Shipment					
Ant - unidentifiable	1	Unknown	Airfreight Shipment					
Armored scale - Pinnaspis sp.	1	Nursery plants and ornamentals	Common Carrier Shipment					
Boxwood scale - Pinnaspis buxi	1	Ornamental plants	Common Carrier Shipment					
Bush cricket - Tettigoniidae sp.	1	Unknown	Airfreight Shipment					
Glassy-winged sharpshooter - Homalodisca vitripennis	3	Winegrapes and ornamentals	Intrastate Shipment, Airfreight Shipment					
Jack Beardsley Mealybug - <i>Pseudococcus jackbeardsleyi</i>	1	Nursery plants and subtropical crops	Airfreight Shipment					
Lesser Snow scale - <i>Pinnaspis strachani</i>	2	Palms and other nursery plants	Common Carrier Shipment, Airfreight Shipment					
Light Brown Apple Moth - Epiphyas postvittana	2	Berries and other fruit crops	Intrastate Shipment					
Magnolia White Scale - Pseudaulacapsis cockerelli	1	Nursery plants and ornamentals	Intrastate Shipment					
Mango Shield Scale - Milviscutulus mangiferae	1	Mango and avocado	Common Carrier Shipment					
Mealybug - Pseduococcidae family	3	Citrus; nursery plants and ornamentals	Common Carrier Shipment					
Mite - Tetranychus sp.	2	Vegetables and nursery plants	Airfreight Shipment					
Mite - Unidentifiable	1	Vegetables and nursery plants	Common Carrier Shipment					
Pandanas halimococcia scale - Thysanococcus pandani	1	Nursery plants and ornamentals	Common Carrier Shipment					
Pyriform scale - Protopulvinaria pyriformis	2	Nursery plants and ornamentals	Airfreight Shipment					
Red Wax scale - Ceroplastes rubens	1	Citrus; nursery plants and ornamentals	Airfreight Shipment					
Sanseveria scale - Parlatoria proteus	1	Nursery plants and ornamentals	Airfreight Shipment					
Stellate scale - Ceroplastes stellifer	1	Citrus; nursery plants and ornamentals	Airfreight Shipment					
Thrips - unidentifiable	3	Vegetables and nursery plants	Interstate Shipment, Airfreight Shipment					
OTHER: FUN	IGI, MOLLUS	CA, & PATHOGENS						
Fungus - Phoma sp.	1	Nursery plants	Intrastate Shipment					
Slug - unidentifiable	1	General agricultural pest	Airfreight Shipment					
Snail - <i>Bradybaena similaris</i>	1	General agricultural pest	Interstate Shipment					
Snail - Zachrysia sp.	1	Citrus; nursery plants and ornamentals	Interstate Shipment					
	WEEDS	5						
Hairy Crabweed - Fatoua villosa	3	General agricultural and garden pest	Interstate Shipment					

Organic Crops



San Luis Obispo County ranked twelfth out of the 58 California counties for the number of organic registrants in 2015 with one hundred seventeen growers registering San Luis Obispo County as their primary county for organic crop production. This included

18 new organic producers. (Eight former registrants did not reregister in 2015). An additional eight registered producers were based in other counties with production sites located within San Luis Obispo County. Compared to 2014, more acreage was utilized to produce a wider variety of vegetable crops.

ACRES REGISTERED AS ORGANIC

Year	Acres				
2015	*50,899				
2014	*50,636				
2013	*13,128				
2012	*14,127				
2011	*14,114				
2010	11,784				
2009	10,124				
2008	11,037				
2007	7,167				
includes repealand for					

^{*}includes rangeland for organic livestock, fallow land and mushrooms

TOP 10 ORGANIC CROPS GROWN IN SLO COUNTY

Rank	Crop	Harvested/ Registered Acres				
1	*Rangeland	42,113				
2	Carrots	1,603				
3	Grains	1,063				
4	Walnuts	959				
5	Wine Grapes	895				
6	**Table Grapes	530				
7	Onions/Garlic	229				
8	Tomato	174				
9	Kale	160				
10	Spinach	147				

^{*}Does not include fallow land.

Commercial Fishing



Central coast commercial fishing operators, located in Port San Luis and Morro Bay, brought ashore a wide variety of

fish for residents, visi-

tors and consumers around the world to enjoy. Over one hundred species of fish were caught and recorded by the California Department of Fish and Wildlife.

The figures presented originated from the California Department of Fish and Wildlife and reflect the overall 2014 valuation of commercial fishing in San Luis Obispo County. We acknowledge Ecological Assets Management, LLC, for contributing to this report. (Note: commercial fishing values representing 2014 data are not included in the overall agricultural values).



COMMERCIAL FISHING LANDINGS (2014)					
Species	Pounds	\$ Value			
Crab, Dungeness	737,137	3,748,980			
Sablefish	726,401	2,066,392			
Squid, market	4,322,495	1,403,679			
Thornyhead, shortspine	115,042	490,785			
Hagfishes	440,926	386,748			
Rockfish, gopher	40,882	311,720			
Rockfish, brown	43,078	295,647			
Prawn, spot	15,379	212,567			
Cabezon	34,526	196,513			
Lingcod	62,434	158,240			
*Other Species	647,164	1,186,989			
TOTAL	\$7,185,464	\$10,458,260			

^{*}includes 90 species. Data Source: California Department of Fish and Wildlife.

^{**}Revised tabluation method.

Weights and Measures

The San Luis Obispo County Weights and Measures Program promotes fair and equitable business practices while providing protection to consumers and businesses in transactions involving weight, measure, or count. Inspectors enforce regulations during the inspection of various weighing and measuring devices throughout the year.

Examples of inspections performed include verification of consumer goods, packaging for compliance with labeling requirements and net content statements; price verification inspections to ensure customers are charged the lowest advertised price as required by law, undercover test sales at local recyclers to verify customers are accurately compensated for material that is sold, and test purchases at



local retail markets to ensure customers are getting what they pay for.

Through their inspections, Weights and Measures Inspectors also verify compliance of petroleum sign requirements and fuel standards at gas stations and the labeling of other automotive fluids such as oils, coolants, and transmission fluids, ensuring each meet quality standards. These inspections safeguard consumers from potential automotive failures and unsafe driving conditions.

2015 WEIGHTS & MEASURES INSPECTIONS PERFORMED

Measuring Device Inspections		Weighing Device Inspections	
Device Type	Number of Inspections Completed	Device Type	Number of Inspections Completed
Retail Motor Fuel Dispensers / Compressed Natural Gas	2,450	Retail Computing Scales	464
Propane Meters	52	Counter Scales	225
Taximeters	34	Hanging Scales	80
Vehicle Tank Meters	30	Crane Scales	5
Water Vending Machines	110	Hopper Scales	16
Electric Submeters	237	Livestock Scales	74
Gas Vapor Submeters	120	Platform Scales	252
Water Submeters	111	Vehicle Scales	62
Wire/Rope/ Cordage Meters	38	Monorail/ Meatbeam Scales	7
Misc. Measuring Devices	7	Prescription Scales	1

Quantity Control Inspections

Price Verification Inspections		
Retail Locations Inspected	Packages Inspected for Price Accuracy	Overall Compliance
151	3,430	97.7%

Package Audits & Package Inspections		
Lots Inspected	Packages Inspected	Overall Compliance
920	978	91.3%

Test Purchase & Test Sale Inspections		
Locations Inspected	Test Sales & Purchases Made	Overall Compliance
16	35	77.1%





Petroleum Signs & Labeling Inspections	Weighmaster Audit Inspections
Number of Stations Inspected	Number of Sites Audited
116	6



San Luis Obispo is home to 17 week-Varkets offer consumers the ability to sample some of the county's agricultural bounty of fresh fruits, vegetables, nuts, ornamental plants and flowers directly from the producer. Residents and visitors alike have the opportunity to meet many of the county's 120 certified producers and enjoy the fruits of their labor vear round.

*SAN LUIS OBISPO COUNTY CERTIFIED FARMERS' MARKETS 2015		
MONDAY	BAYWOOD/LOS OSOS 2:00 PM to 4:30 PM	
TUESDAY	PISMO BEACH 8:30 AM to 11:30 AM PASO ROBLES 3:00 PM to 6:00 PM SAN LUIS OBISPO 3:00 PM to 6:00 PM	
WEDNESDAY	ARROYO GRANDE 8:30 AM to 11:00 AM PISMO BEACH 2:00 PM to 6:00 PM ATASCADERO 3:00 PM to 6:00 PM	
THURSDAY	MORRO BAY 2:30 PM to 5:00 PM SAN LUIS OBISPO 6:00 PM to 9:00 PM	
FRIDAY	AVILA BEACH 4:00 PM to 8:00 PM (March 29 to Sept 27) CAMBRIA 2:30 PM - 5:00 PM CAYUCOS 10:00 AM to 12:30 PM (Memorial Day thru Labor Day)	

SATURDAY

ARROYO GRANDE 12:00 PM to 2:30 PM **MORRO BAY** 2:00 PM to 6:00 PM (summer) 2:00 PM to 5:00 PM (winter) PASO ROBLES 9:00 AM to 1:00 PM **SAN LUIS OBISPO** 8:00 AM to 10:45 AM **TEMPLETON** 9:00 AM to 12:30 PM

SUNDAY

NIPOMO 11:30 AM to 2:30 PM **GROVER BEACH/RAMONA GARDENS PARK** 3:00 PM to 6:00 PM (June-September) SAN LUIS OBISPO 10:00 AM to 2:00 PM

*VISIT WWW.SLOCOUNTY.CA.GOV/AGCOMM FOR LOCATION ADDRESSES.



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF AGRICULTURE/ WEIGHTS AND MEASURES

2156 SIERRA WAY, SUITE A SAN LUIS OBISPO, CALIFORNIA 93401-4556

