



***The World's Largest Open Access Agricultural & Applied Economics Digital Library***

**This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.**

**Help ensure our sustainability.**

Give to AgEcon Search

AgEcon Search  
<http://ageconsearch.umn.edu>  
[aesearch@umn.edu](mailto:aesearch@umn.edu)

*Papers downloaded from AgEcon Search may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

*No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.*

California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

# Imperial County

2015-2017



2015

IMPERIAL COUNTY

Agricultural Crop & Livestock Report

Connie L. Valenzuela  
Agricultural Commissioner  
Sealer of Weights and Measures

Carlos Ortiz  
Assistant Agricultural Commissioner  
Asst. Sealer of Weights and Measures



852 Broadway  
El Centro, CA 92243

(442) 265-1500  
Fax: (760) 353-9420

E-mail: agcom@co.imperial.ca.us

September 27, 2016

**Karen Ross, Secretary**

California Department of Food and Agriculture

and

**The Honorable Board of Supervisors, County of Imperial**

Supervisor Jesus "Jack" Terrazas, Chairman, District 2

Supervisor John Renison, District 1

Supervisor Michael W. Kelley, District 3

Supervisor Ryan E. Kelley, District 4

Supervisor Raymond Castillo, District 5

I am pleased to present the 2015 Imperial County Agricultural Crop and Livestock Report in accordance with the requirements of Section 2279 of the California Food and Agricultural Code. This report summarizes the estimated acreage, yield, and gross value of Imperial County's agricultural production for the 2015 calendar year. Also included is a report on sustainable agriculture pursuant to Section 2272 of the California Food and Agricultural Code.

The values presented in this report represent the gross value for products and do not reflect the cost of production, marketing, storage, or transportation. No attempt is made to reflect the net income, profit, or loss to producers.

Gross production for 2015 was valued at \$1,925,134,000. This is an increase of \$66,345,000 (3.57%) compared to the 2014 gross value of \$1,858,789,000. Winter vegetables were harvested earlier this year due to early warm weather which left gaps in the supply chain and drove prices up later in the season. Livestock production increased due to increases in the number of cattle and sheep and higher market prices.

Cattle again ranked as our #1 commodity with a gross value of \$444,887,000, a substantial increase of 28% from 2014. This was due to a 7% increase in head count and a 24% increase in market price. Leaf lettuce moved back into the Top Ten Commodities from #20 in 2014 to #5 in 2015 due to more planted acres, higher yields, and higher prices. Sudan grass hay dropped in the commodity ranking from #7 in 2014 to #17 in 2015.

In 2015, there was an increase of 25,347 in total harvested acres, up 4.98% from 2014. This increase occurred in the Field Crop, Vegetable Crop, and Seed Crop categories. Wheat showed the largest increase in harvested acres, up 70% with an increase of 26,670 acres.

Thank you to all of the growers, processors, industry groups, and agencies who provided the information and statistics for this report; your help in this effort is truly appreciated. Thank you also to this year's crop report team, Phyllis Cason (retired), Victoria Huber, and Sandra Mendivil. In addition, I would like to express my appreciation to all of the members of my staff for their continued hard work and dedication.

Sincerely,

Connie Valenzuela  
Agricultural Commissioner  
Sealer of Weights and Measures

## 2015 Production Summary

Category	Change in Harvested Acres			Gross Value		Change in Gross Value
	2014	2015	Acres	2014	2015	
Livestock				\$410,512,000	<b>\$502,065,000</b>	22.30%
Field Crops	322,589	<b>349,687</b>	8.40%	\$530,849,000	<b>\$422,319,000</b>	-20.44%
Vegetable & Melon Crops	122,279	<b>121,284</b>	-0.81%	\$723,260,000	<b>\$805,021,000</b>	11.30%
Fruit & Nut Crops	9,685	<b>8,778</b>	-9.36%	\$95,909,000	<b>\$83,277,000</b>	-13.17%
Seed & Nursery Crops	54,888	<b>55,039</b>	0.28%	\$93,818,000	<b>\$107,673,000</b>	14.77%
Apiary Products				\$4,441,000	<b>\$4,779,000</b>	7.61%
<b>Total</b>	<b>509,441</b>	<b>534,788</b>	4.98%	\$1,858,789,000	<b>\$1,925,134,000</b>	3.57%

Total harvested acres includes multiple cropping on individual fields throughout the year.

### Top Ten Commodities

Rank 2015	Gross Value 2015	Rank
		2014
1 Cattle	<b>\$444,887,000</b>	1
2 Alfalfa	<b>\$168,561,000</b>	2
3 Onions	<b>\$145,022,000</b>	3
4 Head Lettuce	<b>\$107,788,000</b>	4
5 Leaf Lettuce	<b>\$99,738,000</b>	20
6 Broccoli	<b>\$90,265,000</b>	5
7 Alfalfa Seed	<b>\$66,592,000</b>	10*
8 Bermuda Grass Hay	<b>\$64,973,000</b>	6
9 Wheat	<b>\$60,883,000</b>	11*
10 Carrots	<b>\$56,962,000</b>	9



\*Corrected rank from 2014

[www.co.imperial.ca.us/ag](http://www.co.imperial.ca.us/ag)

# Livestock

Item	Year	Production				Value Per Unit	Gross Value
		Head	Unit Gain	Total Gain	Unit		
<b>Cattle (Feedlot)</b>	<b>2015</b>	<b>352,870</b>	<b>9.51</b>	<b>3,356,993</b>	<b>Cwt</b>	<b>\$132.53</b>	<b>\$444,887,000</b>
	2014	329,681	9.87	3,253,629	Cwt	\$106.65	\$347,009,000
<b>Sheep (Feeders)</b>	<b>2015</b>	<b>84,000</b>	<b>0.47</b>	<b>39,750</b>	<b>Cwt</b>	<b>\$169.46</b>	<b>\$6,736,000</b>
	2014	77,500	0.45	35,075	Cwt	\$160.71	\$5,637,000
<b>Sheep (Wool)</b>	<b>2015</b>	<b>84,000</b>	<b>3.50</b>	<b>294,000</b>	<b>Lb</b>	<b>\$1.55</b>	<b>\$456,000</b>
	2014	77,500	3.50	271,250	Lb	\$1.03	\$279,000
<b>Aquatic Products</b>	<b>2015</b>						<b>\$10,550,000</b>
(Fish & Algae)	2014						\$13,295,000
<b>Misc. Livestock</b>	<b>2015</b>						<b>\$39,436,000</b>
	2014						\$44,292,000
<b>Total</b>	<b>2015</b>					<b>Value</b>	<b>\$502,065,000</b>
Total	2014					Value	\$410,512,000

**Numbers may not compute due to rounding**  
 Misc. Livestock may include: Calves, Cattle, Cavies, Dairy Animals, Lambs, Milk, Goats, Poultry, Rabbits, Swine, Manure/Compost  
 Cwt = 100 Pounds

## Export Commodities<sup>1/</sup>

### 2015 Federal Export Certificates

16,175 certificates issued to 86 countries  
 92.9% of the certificates issued to 7 countries  
 191 seed samples drawn for export certification

Countries		Commodities Exported <sup>2/</sup>	
Japan	36.4%	United Arab Emirates	2.5%
Mexico	36.1%	Taiwan	1.6%
Republic of Korea	8.8%	Canada	1.1%
China	6.5%	Other Countries	7.0%

### 2015 State Certificates

1,174 state certificates issued to 8 states and 1 territory  
 92.2% of the certificates issued to 2 states

States or Territories	Commodities <sup>2/</sup>
Hawaii	Vegetables 85.9%
Florida	Nursery 12.2%
California	Other 1.4%
Texas	Seed 0.5%
Other States	
Puerto Rico	

<sup>1/</sup> Based on USDA Phytosanitary Certification Program

<sup>2/</sup> Not all commodities originated in Imperial County

# Field Crops

Crop	Year	Production					
		Harvested Acres	Yield Per Acre	Total Units	Unit	Value Per Unit	Gross Value
Alfalfa Hay	2015	140,663	7.54	1,061,183.31	Ton	\$158.84	\$168,561,000
	2014	122,138	8.15	995,453.17	Ton	\$220.77	\$219,766,000
Bermuda Grass Hay	2015	51,928	7.61	394,983.47	Ton	\$164.50	\$64,973,000
	2014	47,641	8.45	402,749.68	Ton	\$192.30	\$77,448,000
Cotton (Lint) <sup>1/</sup>	2015	1,875	3.68	6,905.59	Bale	\$343.63	\$2,373,000
	2014	2,455	4.66	11,449.21	Bale	\$374.17	\$4,284,000
Cotton (Seed)	2015			2,453.50	Ton	\$213.98	\$525,000
	2014			4,034.00	Ton	\$367.63	\$1,483,000
Klein Grass Hay	2015	16,002	8.28	132,422.35	Ton	\$160.00	\$21,188,000
	2014	16,771	10.31	172,950.94	Ton	\$168.13	\$29,078,000
Pastured Crops <sup>2/</sup>	2015	49,227			Acre	\$37.38	\$1,840,000
	2014	46,777			Acre	\$36.28	\$1,697,000
Straw (Baled)	2015			129,861.26	Ton	\$38.62	\$5,015,000
	2014			77,351.33	Ton	\$86.79	\$6,713,000
Sudan Grass Hay	2015	45,151	4.66	210,597.16	Ton	\$143.55	\$30,231,000
	2014	59,701	5.71	341,148.57	Ton	\$191.25	\$65,245,000
Sugar Beets	2015	22,485	43.62	980,795.70	Ton	\$45.64	\$44,764,000
	2014	24,376	43.40	1,057,918.40	Ton	\$42.97	\$45,459,000
Wheat	2015	64,447	3.23	208,116.07	Ton	\$292.54	\$60,883,000
	2014	37,777	3.49	131,906.09	Ton	\$362.00	\$47,750,000
Misc. Field Crops	2015	7,136					\$21,966,000
	2014	11,730					\$31,926,000
Total 2015	Acres	349,687			Value	\$422,319,000	
Total 2014	Acres	322,589			Value	\$530,849,000	

**Numbers may not compute due to rounding**  
 Misc. Field Crops may include: Barley, Corn Silage, Field Corn, Mixed Grasses, Oat Hay, Rye Grass Hay, Sesbania, Sorghum Silage, Sugar Beet Pulp, Sugar Beet Molasses, Sugarcane

<sup>1/</sup>Cotton Bales = 500 Pounds

<sup>2/</sup> Pastured Crops may include: Alfalfa, Bermuda Grass, Permanent Pasture, Rye Grass  
 Pastured Crops: pastured once and the acreage is not included in the total

# Apiary Products

Item	Year	Production					
		Hives	Yield Per Hive	Total Units	Unit	Value Per Unit	Gross Value
Honey	2015	42,489	8.15	346,254.90	Lbs	\$2.09	\$723,000
	2014	35,199	12.59	443,277.00	Lbs	\$2.91	\$1,288,000
Wax	2015	22,050	0.52	11,500.00	Lbs	\$2.17	\$25,000
	2014	16,850	0.65	10,900.00	Lbs	\$2.20	\$24,000
Pollination	2015	71,113			Colony	\$56.68	\$4,031,000
	2014	57,918			Colony	\$54.02	\$3,129,000
Total	2015				Value	\$4,779,000	
Total	2014				Value	\$4,441,000	

Numbers may not compute due to rounding

# Vegetable & Melon Crops

Crop	Year	Production					
		Harvested Acres	Yield Per Acre	Total Units	Unit	Value Per Unit	Gross Value
Broccoli (Market)	2015	14,738	538	7,925,923	26 Lb Ctn	\$11.39	\$90,265,000
	2014	15,026	531	7,978,252	26 Lb Ctn	\$11.25	\$89,719,000
Cabbage (Market)	2015	1,218	768	935,295	45 Lb Ctn	\$12.87	\$12,035,000
	2014	2,390	628	1,501,119	45 Lb Ctn	\$15.00	\$22,521,000
Carrots							
Market	2015	4,920	948	4,665,136	50 Lb Bag	\$1.86	\$8,696,000
	2014	4,486	753	3,377,683	50 Lb Bag	\$4.97	\$16,783,000
Processing & Other	2015	11,479	31.73	364,272	Ton	\$132.50	\$48,266,000
	2014	10,466	35.67	373,347	Ton	\$95.83	\$35,776,000
Total Carrots	2015	16,399					\$56,962,000
	2014	14,952					\$52,559,000
Cauliflower (Market)	2015	3,694	694	2,565,451	23 Lb Ctn	\$9.69	\$24,859,000
	2014	4,065	1,005	4,086,385	23 Lb Ctn	\$6.58	\$26,871,000
Head Lettuce							
Naked Pack	2015			2,401,096	50 Lb Ctn	\$7.66	\$18,384,000
	2014			2,251,972	50 Lb Ctn	\$5.50	\$12,393,000
Wrap Pack	2015			7,203,288	40 Lb Ctn	\$8.33	\$59,990,000
	2014			6,755,917	40 Lb Ctn	\$8.75	\$59,114,000
Bulk	2015			3,841,754	50 Lb Ctn	\$7.66	\$29,414,000
	2014			3,603,156	50 Lb Ctn	\$5.50	\$19,829,000
Total Head Lettuce	2015	18,078		13,446,138	Ctn	\$8.02	\$107,788,000
	2014	21,157		12,611,045	Ctn	\$7.24	\$91,336,000
Leaf Lettuce	2015	13,132	705	9,262,432	35 Lb Ctn	\$10.77	\$99,738,000
	2014	8,305	624	5,182,020	35 Lb Ctn	\$4.71	\$24,407,000
Spring Mix	2015	2,830	18,052	51,088,835	Lb	\$0.51	\$26,157,000
	2014	3,232	6,500	21,006,783	Lb	\$0.61	\$12,910,000

Numbers may not compute due to rounding

Spring Mix may include: Green, Red, and Baby Leaf Lettuces; Beet Tops, Mizuna, Mustard, Baby Spinach



## Vegetable & Melon Crops

Crop	Year	Production				Value	
		Harvested Acres	Yield Per Acre	Total Units	Unit	Per Unit	Gross Value
<b>Onions</b>							
Market	2015	4,192	2,492	10,447,093	50 Lb Sack	\$11.35	\$118,575,000
	2014	4,719	1,721	8,120,539	50 Lb Sack	\$13.17	\$106,920,000
Processor	2015	8,439	19.66	165,932	Ton	\$159.38	\$26,447,000
	2014	6,134	29.54	181,198	Ton	\$122.00	\$22,106,000
<b>Total Onions</b>	<b>2015</b>	<b>12,631</b>					<b>\$145,022,000</b>
	2014	10,853					\$129,026,000
<b>Potatoes</b>	<b>2015</b>	<b>2,009</b>	<b>548</b>	<b>1,100,262</b>	<b>Cwt</b>	<b>\$11.32</b>	<b>\$12,460,000</b>
	2014	2,337	455	1,063,802	Cwt	\$10.96	\$11,663,000
<b>Spinach</b>	<b>2015</b>	<b>6,171</b>	<b>11,413</b>	<b>70,427,155</b>	<b>Lb</b>	<b>\$0.45</b>	<b>\$31,991,000</b>
	2014	6,634	10,490	69,588,751	Lb	\$0.82	\$57,010,000
<b>Sweet Corn</b>	<b>2015</b>	<b>6,410</b>	<b>438</b>	<b>2,804,375</b>	<b>50 Lb Ctn</b>	<b>\$14.00</b>	<b>\$39,261,000</b>
	2014	6,644	220	1,460,463	50 Lb Ctn	\$7.94	\$11,603,000
<b>Romaine</b>	<b>2015</b>	<b>6,590</b>	<b>732</b>	<b>4,825,857</b>	<b>35 Lb Ctn</b>	<b>\$6.50</b>	<b>\$31,372,000</b>
	2014	6,279	558	3,502,486	35 Lb Ctn	\$10.74	\$37,628,000
<b>Misc. Vegetables</b>	<b>2015</b>	<b>10,098</b>					<b>\$77,568,000</b>
	2014	11,784					\$98,302,000
<b>Cantaloupes</b>	<b>2015</b>	<b>5,185</b>	<b>877</b>	<b>4,545,023</b>	<b>40 Lb Ctn</b>	<b>\$6.99</b>	<b>\$31,747,000</b>
	2014	5,334	460	2,451,980	40 Lb Ctn	\$9.03	\$22,139,000
<b>Honeydew &amp; Misc. Melons</b>	<b>2015</b>	<b>851</b>	<b>850</b>	<b>723,350</b>	<b>40 Lb Ctn</b>	<b>\$8.88</b>	<b>\$6,423,000</b>
	2014	1,341	409	547,799	40 Lb Ctn	\$12.60	\$6,902,000
<b>Watermelons</b>	<b>2015</b>	<b>1,250</b>	<b>23.75</b>	<b>29,688</b>	<b>Ton</b>	<b>\$383.09</b>	<b>\$11,373,000</b>
	2014	1,946	29.17	56,758	Ton	\$440.01	\$24,974,000
<b>Total 2015</b>	<b>Acres</b>	<b>121,284</b>			<b>Value</b>	<b>\$805,021,000</b>	
<b>Total 2014</b>	<b>Acres</b>	<b>122,279</b>			<b>Value</b>	<b>\$723,260,000</b>	

**Numbers may not compute due to rounding**

Misc. Vegetables may include: Artichoke, Arugula, Asparagus, Basil, Beans, Beets, Bok Choy, Brussel Sprout, Celery, Cilantro, Collard, Cucumber, Daikon, Dill, Endive, Fennel, Garbanzo Beans, Garlic, Kale, Leek, Mint, Mustard, Napa Cabbage, Okra, Parsley, Peas, Radish, Rapini, Rutabaga, Sage, Squash, Swiss Chard, Tomato, Turnip

Cwt = 100 Pounds

### California Agricultural Statistics – 2014

*California Agricultural Statistics are compiled annually from County Agricultural Commissioner Crop Reports*

- In 2014, Imperial County ranked #11 out of 58 California Counties with a gross value of agricultural production at \$1,858,789,000.
- According to a 2014-15 review of the 2013 Ag Statistics by CDFA, Imperial County was the sole producer of sugar beets; #1 producer of onion, wheat, Sudangrass and alfalfa seed; and among the top five producers of cattle, lettuce, alfalfa hay, broccoli, celery, carrots, cauliflower, corn, sheep, dates, melons, spinach, potatoes, salad greens, cabbage, and grapefruit.
- In 2014, California remained the leading state in cash farm receipts with the leading crops being fruits, nuts and vegetables. California produces over 1/3 of the vegetables and 2/3 of the fruit & nuts in the US; California produces nearly all the national production of almonds, dates, figs, kiwifruit, olives, peaches, pistachios, dried plums, raisins and walnuts.

# Fruit & Nut Crops

Crop	Year	Production				Value Per Unit	Gross Value Total
		Harvested Acres	Yield Per Acre	Total	Unit		
<b>Dates</b>	<b>2015</b>	<b>2,034</b>	<b>3.80</b>	<b>7,731.17</b>	<b>Ton</b>	<b>\$3,150.62</b>	<b>\$24,358,000</b>
	2014	2,148	3.22	6,923.57	Ton	\$5,143.59	\$35,612,000
<b>Grapefruit</b>	<b>2015</b>	<b>1,220</b>	<b>6.48</b>	<b>7,905.67</b>	<b>Ton</b>	<b>\$613.61</b>	<b>\$4,851,000</b>
	2014	1,337	3.05	4,071.98	Ton	\$706.04	\$2,875,000
<b>Lemons</b>	<b>2015</b>	<b>3,745</b>	<b>12.90</b>	<b>48,300.74</b>	<b>Ton</b>	<b>\$782.78</b>	<b>\$37,809,000</b>
	2014	3,857	10.70	41,273.82	Ton	\$1,013.02	\$41,811,000
<b>Tangelos</b>	<b>2015</b>	<b>530</b>	<b>8.26</b>	<b>4,380.08</b>	<b>Ton</b>	<b>\$801.13</b>	<b>\$3,509,000</b>
	2014	759	4.08	3,097.70	Ton	\$1,581.17	\$4,898,000
<b>Tangerines</b>	<b>2015</b>	<b>729</b>	<b>7.67</b>	<b>5,589.64</b>	<b>Ton</b>	<b>\$878.41</b>	<b>\$4,910,000</b>
	2014	816	3.26	2,656.12	Ton	\$1,007.86	\$2,677,000
<b>Misc. Citrus, Fruit &amp; Nut Crops</b>	<b>2015</b>	<b>521</b>	<b>11.47</b>	<b>5,972.29</b>	<b>Ton</b>	<b>\$986.72</b>	<b>\$5,893,000</b>
	2014	769	6.52	5,007.29	Ton	\$1,369.00	\$6,855,000
<b>Citrus By-Products</b>	<b>2015</b>			<b>11,761.36</b>	<b>Ton</b>	<b>\$165.54</b>	<b>\$1,947,000</b>
	2014			6,178.71	Ton	\$191.14	\$1,181,000
<b>Total 2015</b>	<b>Acres</b>	<b>8,778</b>				<b>Value</b>	<b>\$83,277,000</b>
<b>Total 2014</b>	<b>Acres</b>	9,685				<b>Value</b>	<b>\$95,909,000</b>
<b>Numbers may not compute due to rounding</b> Misc. Citrus, Fruit & Nut Crops may include: Grapes, Limes, Mangos, Olives, Oranges							



# Seed Crops & Nursery Products

Crop	Year	Production					
		Harvested Acres	Yield Per Acre	Total Units	Unit	Value Per Unit	Gross Value
<b>Alfalfa Seed</b>							
Non-Certified	2015	10,782	576.94	6,220,594	Lb	\$2.67	\$16,613,000
	2014	12,092	508.94	6,154,066	Lb	\$2.73	\$16,821,000
Certified	2015	20,446	658.59	13,465,537	Lb	\$3.71	\$49,979,000
	2014	20,245	536.86	10,868,777	Lb	\$3.17	\$34,418,000
<b>Total Alfalfa Seed</b>	<b>2015</b>	<b>31,228</b>	<b>630.40</b>	<b>19,686,132</b>	<b>Lb</b>	<b>\$3.38</b>	<b>\$66,592,000</b>
	2014	32,337	526.42	17,022,843	Lb	\$3.01	\$51,239,000
<b>Bermuda Grass Seed</b>							
Non-Certified	2015	16,858	391.40	6,598,221	Lb	\$3.58	\$23,605,000
	2014	15,467	444.77	6,879,218	Lb	\$3.81	\$26,198,000
Certified	2015	3,902	435.65	1,699,904	Lb	\$3.87	\$6,587,000
	2014	3,582	400.00	1,432,800	Lb	\$3.99	\$5,719,000
<b>Total Bermuda Grass Seed</b>	<b>2015</b>	<b>20,760</b>	<b>399.72</b>	<b>8,298,125</b>	<b>Lb</b>	<b>\$3.64</b>	<b>\$30,192,000</b>
	2014	19,049	436.35	8,312,018	Lb	\$3.84	\$31,917,000
<b>Onion Seed</b>	<b>2015</b>	<b>348</b>	<b>352.17</b>	<b>122,554</b>	<b>Lb</b>	<b>\$9.42</b>	<b>\$1,155,000</b>
	2014	696	662.50	461,100	Lb	\$9.43	\$4,346,000
<b>Misc. Seed &amp; Nursery</b>							
Misc. Non-Certified Seed	2015	1,197					\$4,140,000
	2014	1,282					\$2,326,000
Misc. Certified Seed	2015	949					\$1,447,000
	2014	847					\$789,000
Misc. Nursery Products	2015	557					\$4,147,000
	2014	677					\$3,201,000
<b>Total 2015</b>	<b>Acres</b>	<b>55,039</b>			<b>Value</b>		<b>\$107,673,000</b>
<b>Total 2014</b>	<b>Acres</b>	<b>54,888</b>			<b>Value</b>		<b>\$93,818,000</b>
<b>Numbers may not compute due to rounding</b>							
Misc. Field, Vegetable, and Flower Seed and Nursery Products may include: Artichoke Seed, Barley Seed, Broccoli Seed, Canola Seed, Cilantro Seed, Celery Seed, Flax Seed, Grass Seed, Mustard Seed, Oat Seed, Pea Seed, Sudan Grass Seed, Sunflower Seed, Wheat Seed, Cut Flowers, Palm Trees, Vegetable Transplants							

## Agricultural Production Areas

Imperial County has three areas of production: Imperial Valley, Bard/Winterhaven, & Palo Verde

### 2015 Total County Farmable Acres

Imperial Valley	457,695
Bard/Winterhaven	14,452
Palo Verde	7,630
<b>Total</b>	<b>479,777</b>

## Mission Statement

To promote and protect our agricultural industry by providing clear direction and appropriate regulatory oversight while protecting our citizens and the environment through the enforcement of pesticide laws, and the detection and eradication of pests harmful to our agricultural industry, human health and other plant resources.

### Pest Detection, Eradication and Management

This program is mandated to monitor agricultural and urban areas for harmful exotic pests using trapping and visual surveys, and to control or eradicate exotic pests as appropriate in order to protect the local agricultural industry, environment, the public, and landscaping. Surveys continue for Mediterranean fruit fly, Mexican fruit fly, oriental fruit fly, melon fly, gypsy moth, Japanese beetle, glassy-winged sharpshooter, Asian citrus psyllid, and red imported fire ant. The department also provides field inspection services for growers that wish to export commodities, pest identification services, and enforcement of pest related laws and regulations intended to protect the local agricultural industry.

### Pest Detection Trapping

Target Pest	Pest Detection Method	Number of Traps	Annual Trap Services	Host Crops
Asian Citrus Psyllid ACP population monitoring	Yellow Sticky Trap 2 mile delimitation from the International Border - finds result in State treatment	480	11,520	Citrus
European Corn Borer	Pheromone	12	120	Corn & Sorghum
Various Exotic Fruit Flies	Feeding Attractant	109	1,090	Fruit Trees & Vegetables
Glassy-winged Sharpshooter	Yellow Sticky Trap	488	10,532	Crops & Ornamentals
Gypsy Moth	Pheromone	60	360	Shade Trees
Japanese Beetle	Pheromone	60	360	Turf & Flowers
Khapra Beetle	Feeding Attractant/Pheromone	36	432	Stored Food Products
Mediterranean Fruit Fly	Pheromone	121	4,840	Fruit Trees
Melon Fruit Fly	Pheromone	121	4,840	Vegetables
Mexican Fruit Fly	Feeding Attractant	121	4,840	Fruit Trees
Oriental Fruit Fly	Pheromone	121	4,840	Fruit Trees

### Pest Detection Surveys

Target Pest/Survey Sites	Area Surveyed	Inspections & Finds	Actions
Noxious Weeds / Ag & Urban: Puncture Vine, C-rated Johnson Grass, C-rated	553 Total Miles	35 Total Positive Sites: 20 Positive Sites 15 Positive Sites	5 Sites Mechanical Removal 1 Site Mechanical Removal
Karnal Bunt / Wheat	10 Fields	No Finds	No Action Needed
Red Imported Fire Ant	43 High Risk Sites	No Finds	No Action Needed
Glassy-winged Sharpshooter	Retail Nursery Stock Shipments Bulk Citrus Fruit	1,322 Inspections 23 Rejections 117 Inspections	5 Finds: Returned to Origin 18 Rejections not due to finds No Finds - No Action Needed
Pathogens of Concern for Seed Export	Seed Fields	241 Fields Surveyed (By Request Only)	151 Target Pests of Concern (Listed on Field Walk Report)

## Plant Quarantine, Exclusion, and Certification

The department is mandated to exclude exotic agricultural, urban, and environmental pests and to prevent movement of newly discovered pests within the state. This is accomplished through inspection of incoming agricultural products and enforcement of quarantines that prohibit or restrict the movement of plants, seeds, and other items capable of harboring harmful pests. In addition, certificates of quarantine compliance and phytosanitary certificates are issued for commodities originating here in order to assist growers in moving their products to other counties, states, or countries.

### Plant Quarantine Pest Exclusion Inspections (Shipments Entering Imperial County)

Type of Inspection	Inspections	Pounds	Origin
Field & Vegetable Seed	921	15,080,404	Arizona, Canada, Chile, Florida, Idaho, Maine, Michigan, Nebraska, Oregon, Tennessee, Texas, and Washington
Plants	136	-	Arizona, Florida, Illinois, Michigan, Pennsylvania, and Texas
	88	-	California
Bees for Pollination	18	-	Canada

### Nursery and Seed Inspection

The goals of the nursery inspection programs are to prevent the introduction and spread of agricultural pests through nursery stock and to protect agriculture and the consumer against economic losses resulting from the sale of inferior, defective, or pest-infested nursery stock. The seed law enforcement program protects seed consumers by regulation of the marketing of seed, inspection of seed grown or sold locally, verification of purity and germination, investigation of seed complaints, and prevention of the spread of noxious weed seeds through seed products. Also included in this program is the California Certified Seed Program in which superior varieties of seed are grown, processed, and distributed under close supervision.

### Nursery Inspections

Type of Inspection	Locations	Production Acres	Nursery Stock Type
Production Nursery	19	449	Palms, Bamboo, Vegetable Transplants, Ornamentals, Cut Flowers, Succulents
Retail Nursery	37	-	Retail Flowers, Trees and Shrubs

### California Crop Improvement Association Inspections and Certification

Type of Inspection	Inspections	Seed Transfer Certificates	Number of Certificates
Harvest Equipment	33	In-State Out of State	90 54

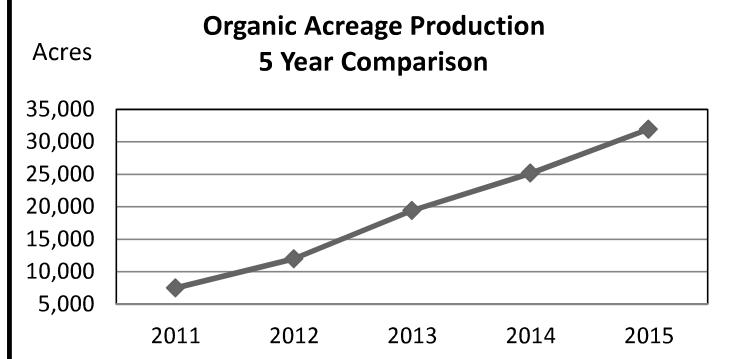
### Organic Grower Program

The Organic Program is responsible for enforcement of the federal Organic Foods Production Act of 1990 and the California Organic Products Act of 2003. These statutes protect consumers, producers, handlers, processors and retailers by monitoring and inspecting fresh commodities grown, labeled or sold as organic.

#### 5 Year Comparison of Organic Production

Year	Growers	Acres	Gross Value
2015	36	31,934	\$275,382,000
2014	28	25,156	\$159,938,000
2013	20	19,433	\$80,904,000
2012	26	11,989	\$36,396,000
2011	26	7,487	\$39,386,000

#### Organic Acreage Production 5 Year Comparison



Connie L. Valenzuela  
Agricultural Commissioner  
Sealer of Weights and Measures  
852 Broadway  
El Centro, CA 92243-2850





# 2016

## IMPERIAL COUNTY

### AGRICULTURAL CROP & LIVESTOCK REPORT





Table of Contents

Agricultural Commissioner's Letter	2
Production Summary, Top Ten Commodities & Production Areas	3
Livestock	4
Field Crops	5
Fruit & Nut Crops & Apiary Products	6
Vegetable & Melon Crops	7
Seed Crops & Nursery Products California Agricultural Statistics ~ 2015	9
Export Commodities	10
Pest Detection, Eradication, & Management	11
Plant Quarantine, Exclusion, & Certification	12
Agricultural Commissioner's Mission Statement & Department Description	13
Agricultural Commissioner's Staff	14



Carlos Ortiz  
Agricultural Commissioner  
Sealer of Weights and Measures



852 Broadway  
El Centro, CA 92243

(442) 265-1500  
Fax: (760) 353-9420

Jolene Dessert  
Assistant Agricultural Commissioner  
Asst. Sealer of Weights and Measures

E-mail: agcom@co.imperial.ca.us

August 1, 2017

**Karen Ross, Secretary**  
California Department of Food and Agriculture  
and

**The Honorable Board of Supervisors, County of Imperial**  
Supervisor Michael W. Kelley, Chairman, District 3  
Supervisor John R. Renison, District 1  
Supervisor Luis A. Plancarte, District 2  
Supervisor Ryan E. Kelley, District 4  
Supervisor Raymond "Ray" Castillo, District 5

I am pleased to present the 2016 Imperial County Agricultural Crop and Livestock Report in accordance with the requirements of Section 2279 of the California Food and Agricultural Code. This report summarizes the estimated acreage, yield, and gross value of Imperial County's agricultural production for the 2016 calendar year. Also included is a report on sustainable agriculture pursuant to Section 2272 of the California Food and Agricultural Code.

The values presented in this report represent the gross value for products and do not reflect the cost of production, marketing, storage, or transportation. No attempt is made to reflect the net income, profit, or loss to producers.

Gross production for 2016 was valued at \$2,063,214,000. This is an increase of \$138,080,000 (7.1%) compared to the 2015 gross value of \$1,925,134,000. The increase was mainly due to winter vegetables having better prices overall. Lettuce and spinach had much higher prices with generally good quality. Alfalfa seed production had an increase of 9,921 acres (31.77%) with a slightly higher yield when compared to last year.

Cattle again ranked as our #1 commodity with a gross value of \$400,614,000 despite a decrease of 10% from 2015. This was due to a 4% decrease in head count and an 11% decrease in market price. Spinach moved back into the Top Ten Commodities from #14 in 2015 to #7 in 2016 mainly due to more planted acres and higher prices. Romaine Lettuce also moved back into the Top Ten Commodities from #16 in 2015 to #9 in 2016 mainly due to higher prices.

In 2016, there was an increase of 7,275 in total harvested acres, up 1.36% from 2015. This increase occurred in the Vegetable Crop, Fruit Crop and Seed Crop categories. Spinach showed the largest increase in harvested acres, up 65% with an increase of 3,994 acres.

Thank you to all the growers, processors, industry groups, and agencies who provided the information and statistics for this report; your help in this effort is truly appreciated. In addition, I would like to express my appreciation to all of the members of my staff for their continued hard work and dedication and particularly to Sandra Mendivil, Special Projects Coordinator, for her work in compiling this annual report.

Sincerely,

Carlos Ortiz  
Agricultural Commissioner  
Sealer of Weights and Measures



# 2016 Production Summary

Category	Harvested Acres		Change in Harvested Acres	Gross Value		Change in Gross Value
	2015	2016		2015	2016	
Livestock				\$502,065,000	\$468,176,000	-6.75%
Field Crops	349,687	333,762	-4.55%	\$422,319,000	\$381,181,000	-9.74%
Vegetable & Melon Crops	121,284	133,593	10.15%	\$805,021,000	\$1,006,345,000	25.01%
Fruit & Nut Crops	8,778	9,443	7.57%	\$83,277,000	\$80,098,000	-3.82%
Seed & Nursery Crops	55,039	65,266	18.58%	\$107,673,000	\$123,057,000	14.29%
Apiary Products				\$4,779,000	\$4,357,000	-8.83%
<b>Total</b>	<b>534,788</b>	<b>542,063</b>	<b>1.36%</b>	<b>\$1,925,134,000</b>	<b>\$2,063,214,000</b>	<b>7.17%</b>

**Total harvested acres include multiple cropping on individual fields throughout the year.**

<b>Top Ten Commodities</b>		
Rank 2016	Gross Value 2016	Rank 2015
1 Cattle	\$400,614,000	1
2 Alfalfa	\$148,915,000	2
3 Leaf Lettuce	\$133,212,000	5
4 Onions	\$128,476,000	3
5 Broccoli	\$120,562,000	6
6 Head Lettuce	\$119,236,000	4
7 Spinach	\$96,508,000	14
8 Alfalfa Seed	\$84,911,000	7
9 Romaine Lettuce	\$70,196,000	16
10 Carrots	\$62,038,000	10

## Agricultural Production Areas

Imperial County has three areas of production: Imperial Valley, Bard/Winterhaven & Palo Verde

### 2016 Total County Farmable Acres

Imperial Valley	472,593
Bard/Winterhaven	14,452
Palo Verde	7,668
<b>Total</b>	<b>494,713</b>



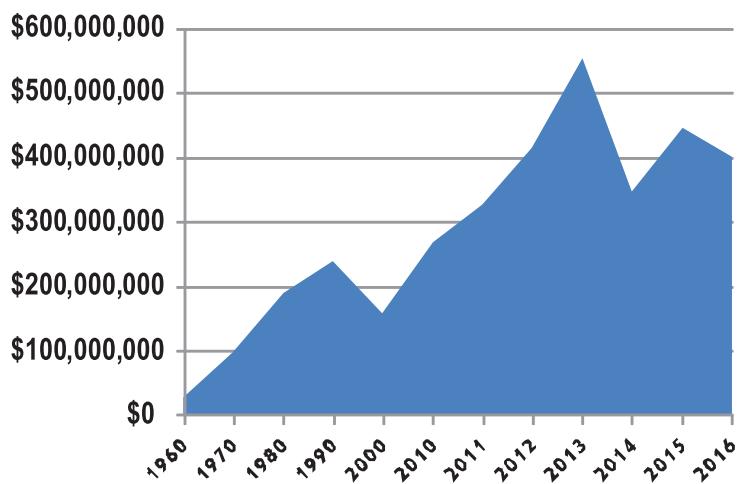


# Livestock

Production						Value	
Item	Year	Head	Unit Gain	Total Gain	Unit	Per Unit	Gross Value
Cattle (Feedlot)	2016	337,286	10.06	3,394,630	Cwt	\$118.01	\$400,614,000
	2015	352,870	9.51	3,356,993	Cwt	\$132.53	\$444,887,000
Sheep (Feeders)	2016	62,000	0.54	33,700	Ctw	\$136.11	\$4,587,000
	2015	84,000	0.47	39,750	Cwt	\$169.46	\$6,736,000
Sheep (Wool)	2016	62,000	6.60	409,200	Lb	\$1.50	\$614,000
	2015	84,000	3.50	294,000	Lb	\$1.55	\$456,000
Aquatic Products	2016						\$12,298,000
(Fish & Algae)	2015						\$10,550,000
Misc. Livestock	2016						\$50,063,000
	2015						\$39,436,000
Total 2016					Value		\$468,176,000
Total 2015					Value		\$502,065,000
Misc. Livestock may include: Calves, Replacement Cattle, Dairy Animals, Milk, Manure/Compost, California Mid-Winter Fair & Fiesta Show Animals							
Cwt = 100 Pounds							

## #1 Commodity Trend

Cattle has consistently been the #1 commodity for Imperial County since 1957





# Field Crops

Crop	Year	Production					
		Acres	Per Acre	Total Units	Unit	Value Per Unit	Gross Value
Alfalfa Hay	2016	154,861	7.19	1,114,002	Ton	\$133.68	\$148,915,000
	2015	140,663	7.54	1,061,183	Ton	\$158.84	\$168,561,000
Bermuda Grass Hay	2016	50,704	7.89	399,959	Ton	\$135.28	\$54,107,000
	2015	51,928	7.61	394,983	Ton	\$164.50	\$64,973,000
Cotton (Lint) <sup>1/</sup>	2016	2,004	3.90	7,817	Bale	\$356.79	\$2,789,000
	2015	1,875	3.68	6,906	Bale	\$343.63	\$2,373,000
Cotton (Seed)	2016			2,722	Ton	\$155.39	\$423,000
	2015			2,454	Ton	\$213.98	\$525,000
Klein Grass Hay	2016	14,590	10.00	145,900	Ton	\$164.94	\$24,065,000
	2015	16,002	8.28	132,422	Ton	\$160.00	\$21,188,000
Pastured Crops <sup>2/</sup>	2016	36,834			Acre	\$36.87	\$1,358,000
	2015	49,227			Acre	\$37.38	\$1,840,000
Straw (Baled)	2016			104,512	Ton	\$37.35	\$3,904,000
	2015			129,861	Ton	\$38.62	\$5,015,000
Sudan Grass Hay	2016	43,267	5.66	244,805	Ton	\$150.00	\$36,721,000
	2015	45,151	4.66	210,597	Ton	\$143.55	\$30,231,000
Sugar Beets	2016	24,634	44.75	1,102,333	Ton	\$46.93	\$51,732,000
	2015	22,485	43.62	980,796	Ton	\$45.64	\$44,764,000
Wheat	2016	33,685	3.21	108,129	Ton	\$287.12	\$31,046,000
	2015	64,447	3.23	208,116	Ton	\$292.54	\$60,883,000
Misc. Field Crops	2016	10,017					\$26,121,000
	2015	7,136					\$21,966,000
<b>Total 2016</b>	<b>Acres</b>	<b>333,762</b>			<b>Value</b>		<b>\$381,181,000</b>
<b>Total 2015</b>	<b>Acres</b>	<b>349,687</b>			<b>Value</b>		<b>\$422,319,000</b>

Misc. Field Crops may include: Barley, Corn Silage, Field Corn, Mixed Grasses, Oat Hay, Rye Grass Hay, Sesbania, Sorghum Silage, Sugar Beet Pulp, Sugar Beet Molasses, Sugarcane

<sup>1/</sup> Cotton Bales = 500 Pounds

<sup>2/</sup> Pastured Crops may include: Alfalfa, Bermuda Grass, Permanent Pasture, Rye Grass

Pastured Crops: pastured once and the acreage is not included in total





# Fruit & Nut Crop

Crop	Year	Production				Value Per Unit	Gross Value Total
		Harvested Acres	Yield Per Acre	Total	Unit		
Dates	2016	2,136	2.75	5,878	Ton	\$3,243.90	\$19,069,000
	2015	2,034	3.80	7,731	Ton	\$3,150.62	\$24,358,000
Grapefruit	2016	818	12.89	10,540	Ton	\$413.64	\$4,360,000
	2015	1,220	6.48	7,906	Ton	\$613.61	\$4,851,000
Lemons	2016	4,413	11.97	52,805	Ton	\$859.07	\$45,363,000
	2015	3,745	12.90	48,301	Ton	\$782.78	\$37,809,000
Tangelos	2016	520	3.66	1,906	Ton	\$621.06	\$1,184,000
	2015	530	8.26	4,380	Ton	\$801.13	\$3,509,000
Tangerines	2016	510	5.31	2,710	Ton	\$673.68	\$1,826,000
	2015	729	7.67	5,590	Ton	\$878.41	\$4,910,000
Misc. Citrus, Fruit & Nut Crops	2016	1,046	6.37	6,657	Ton	\$667.37	\$4,443,000
	2015	521	11.47	5,972	Ton	\$986.72	\$5,893,000
Citrus By-Products	2016			9,707	Ton	\$396.95	\$3,853,000
	2015			11,761	Ton	\$165.54	\$1,947,000
Total 2016	Value	9,443				Value	\$80,098,000
Total 2015	Value	8,779				Value	\$83,277,000
Misc. Fruit & Nut Crops: May include Grapes, Jujubes, Limes, Mangos, Olives, Oranges							

## Apiary Products

Crop	Year	Production				Value Per Unit	Gross Value
		Hives	Yield Per Hlve	Total Units	Unit		
Honey	2016	17,312	16.13	279,193	Lbs	\$1.63	\$456,000
	2015	42,489	8.15	346,255	Lbs	\$2.09	\$723,000
Wax	2016	14,150	1.69	23,900	Lbs	\$3.81	\$91,000
	2015	22,050	0.52	11,500	Lbs	\$2.17	\$25,000
Pollination	2016	62,591			Colony	\$60.87	\$3,810,000
	2015	71,113			Colony	\$56.68	\$4,031,000
Total 2016						Value	\$4,357,000
Total 2015						Value	\$4,779,000



# Vegetable & Melon Crops

Crop	Year	Production			Value		
		Acres	Per Acre	Total Units	Unit	Per Unit	Gross Value
<b>Broccoli (Market)</b>	2016	14,579	472	6,885,855	26 Lb Ctn	\$17.51	\$120,562,000
	2015	14,738	538	7,925,923	26 Lb Ctn	\$11.39	\$90,265,000
<b>Cabbage (Market)</b>	2016	1,653	777	1,283,903	45 Lb Ctn	\$11.48	\$14,733,000
	2015	1,218	768	935,295	45 Lb Ctn	\$12.87	\$12,035,000
<b>Carrots</b>							
Market	2016	4,642	706	3,277,906	50 Lb Bag	\$3.29	\$10,780,000
	2015	4,920	948	4,665,136	50 Lb Bag	\$1.86	\$8,696,000
Processing & Other	2016	10,830	29.07	314,873	Ton	\$162.79	\$51,258,000
	2015	11,479	31.73	364,272	Ton	\$132.50	\$48,266,000
<b>Total Carrots</b>	2016	15,472					\$62,038,000
	2015	16,399					\$56,962,000
<b>Cauliflower (Market)</b>	2016	4,428	787	3,484,515	23 Lb Ctn	\$10.35	\$36,053,000
	2015	3,694	694	2,565,451	23 Lb Ctn	\$9.69	\$24,859,000
<b>Head Lettuce</b>							
Naked Pack	2016			2,466,093	50 Lb Ctn	\$8.50	\$20,962,000
	2015			2,401,096	50 Lb Ctn	\$7.66	\$18,834,000
Wrap Pack	2016			7,398,278	40 Lb Ctn	\$8.75	\$64,735,000
	2015			7,203,288	40 Lb Ctn	\$8.33	\$59,990,000
Bulk	2016			3,945,748	50 Lb Ctn	\$8.50	\$33,539,000
	2015			3,841,754	50 Lb Ctn	\$7.66	\$29,414,000
<b>Total Head Lettuce</b>	2016	18,031		13,810,119	Ctn	\$8.63	\$119,236,000
	2015	18,078		13,446,138	Ctn	\$8.02	\$107,788,000
<b>Leaf Lettuce</b>	2016	14,310	560	8,013,191	35 Lb Ctn	\$16.62	\$133,212,000
	2015	13,132	705	9,262,432	35 Lb Ctn	\$10.77	\$99,738,000
<b>Spring Mix</b>	2016	2,973	11,381	33,835,713	Lb	\$0.83	\$28,013,000
	2015	2,830	18,052	51,088,835	Lb	\$0.51	\$26,157,000

Spring Mix may include: Green, Red, and Baby Leaf Lettuce; Beet Tops, Mizuna, Mustard





# Vegetable & Melon Crops

Crop	Year	Production				Value	
		Harvested Acres	Yield Per Acre	Total Units	Unit	Per Unit	Gross Value
<b>Onions</b>							
Market	2016	3,924	1,702	6,678,648	50 Lb Sack	\$9.19	\$61,396,000
	2015	4,192	2,492	10,447,093	50 Lb Sack	\$11.35	\$118,575,000
Processor	2016	9,813	24.41	239,569	Ton	\$280.00	\$67,080,000
	2015	8,439	19.66	165,932	Ton	\$159.38	\$26,447,000
<b>Total Onions</b>		<b>13,737</b>					<b>\$128,476,000</b>
	2015	12,631					\$145,022,000
Potatoes	2016	2,243	367	822,732	Cwt	\$26.19	\$21,544,000
	2015	2,009	548	1,100,262	Cwt	\$11.32	\$12,460,000
Spinach	2016	10,165	10,246	104,145,699	Lb	\$0.93	\$96,508,000
	2015	6,171	11,413	70,427,155	Lb	\$0.45	\$31,991,000
Sweet Corn	2016	7,407	445	3,296,115	50 Lb Ctn	\$12.50	\$41,201,000
	2015	6,410	438	2,804,375	50 Lb Ctn	\$14.00	\$39,261,000
Romaine Lettuce	2016	8,122	589	4,787,842	35 Lb Ctn	\$14.66	\$70,196,000
	2015	6,590	732	4,825,857	35 Lb Ctn	\$6.50	\$31,372,000
Misc. Vegetables	2016	13,349					\$96,907,000
	2015	10,098					\$77,568,000
Cantaloupes	2016	5,068	620	3,142,582	40 Lb Ctn	\$6.93	\$21,789,000
	2015	5,185	877	4,545,023	40 Lb Ctn	\$6.99	\$31,747,000
Honeydew &	2016	1,283	691	886,553	40 Lb Ctn	\$9.34	\$8,280,000
Misc. Melons	2015	851	850	723,350	40 Lb Ctn	\$8.88	\$6,423,000
Watermelons	2016	773	27.00	20,871	Ton	\$364.00	\$7,597,000
	2015	1,250	23.75	29,688	Ton	\$383.09	\$11,373,000
<b>Total 2016</b>	<b>Acres</b>	<b>133,593</b>			<b>Value</b>		<b>\$1,006,345,000</b>
<b>Total 2015</b>	<b>Acres</b>	<b>121,284</b>			<b>Value</b>		<b>\$805,021,000</b>

Misc. Vegetables may include: Artichoke, Arugula, Asparagus, Basil, Beans, Beets, Bok Choy, Brussel Sprouts, Celery, Cilantro, Collard, Cucumber, Daikon, Dill, Endive, Fennel, Garbanzo Beans, Garlic, Kale, Mint, Mustard, Napa Cabbage, Okra, Parsley, Peas, Peppers, Radish, Rapini, Rutabaga, Squash, Swiss Chard, Tomato, Turnip





# Seed Crops & Nursery Products

Crop	Year	Production				Value Per Unit	Gross Value Total
		Harvested Acres	Yield Per Acre	Total	Unit		
<b>Alfalfa Seed</b>							
Non-Certified	2016	10,479	584.37	6,123,618	Lb	\$2.53	\$15,480,000
	2015	10,782	576.94	6,220,594	Lb	\$2.67	\$16,613,000
Certified	2016	30,670	667.27	20,465,255	Lb	\$3.39	\$69,431,000
	2015	20,446	658.59	13,465,537	Lb	\$3.71	\$49,979,000
<b>Total Alfalfa Seed</b>	<b>2016</b>	<b>41,149</b>	<b>646.16</b>	<b>26,588,873</b>	<b>Lb</b>	<b>\$3.19</b>	<b>\$84,911,000</b>
	2015	31,228	630.40	19,686,131	Lb	\$3.38	\$66,592,000
<b>Bermuda Grass Seed</b>							
Non-Certified	2016	17,085	270.00	4,612,950	Lb	\$3.00	\$13,839,000
	2015	16,858	391.40	6,598,221	Lb	\$3.58	\$23,605,000
Certified	2016	3,675	481.04	1,767,840	Lb	\$3.50	\$6,188,000
	2015	3,902	435.65	1,699,904	Lb	\$3.87	\$6,587,000
<b>Total Bermuda Grass Seed</b>	<b>2016</b>	<b>20,760</b>	<b>307.36</b>	<b>6,380,790</b>	<b>Lb</b>	<b>\$3.14</b>	<b>\$20,027,000</b>
	2015	20,760	399.72	8,298,125	Lb	\$3.64	\$30,192,000
<b>Onion Seed</b>	<b>2016</b>	<b>684</b>	<b>220.83</b>	<b>151,050</b>	<b>Lb</b>	<b>\$9.43</b>	<b>\$1,424,000</b>
	2015	348	352.17	122,554	Lb	\$9.42	\$1,155,000
<b>Misc. Seed &amp; Nursery</b>							
<b>Misc. Non-Certified Seed</b>	<b>2016</b>	<b>1,108</b>				<b>\$10,088,000</b>	
	2015	1,197				\$4,140,000	
<b>Misc. Certified Seed</b>	<b>2016</b>	<b>972</b>				<b>\$533,000</b>	
	2015	949				\$1,447,000	
<b>Misc. Nursery Products</b>	<b>2016</b>	<b>593</b>				<b>\$6,074,000</b>	
	2015	557				\$4,147,000	
<b>Total 2016</b>	<b>Acres</b>	<b>65,266</b>				<b>\$123,057,000</b>	
<b>Total 2015</b>	<b>Acres</b>	<b>55,039</b>				<b>\$107,673,000</b>	
Misc. Seed and Nursery Products may include: Artichoke Seed, Broccoli Seed, Coriander Seed, Carrot Seed, Kale Seed, Rape Seed, Sunflower Seed, Watermelon Seed, Wheat Seed, Cut Flowers, Palm Trees, Vegetable Transplants							

## California Agricultural Statistics—2015

*California Agricultural Statistics are compiled annually from County Agricultural Commissioner Crop Reports*

- In 2015, Imperial County ranked #11 out of 58 California Counties with a gross value of agricultural production at \$1,925,134,000.
- According to the 2015-16 review of the 2015 Ag Statistics by CDFA, Imperial County was the sole producer of sugar beets; #1 producer of alfalfa hay, onion, wheat, corn, alfalfa seed and Sudan grass hay; and among the top five producers of cattle, lettuce, broccoli, celery, carrots, cauliflower, spinach, potatoes, cantaloupes, salad greens, cabbage, watermelon, grapefruit, sheep, honeydew melon and dates.
- In 2015, California remained the leading state in cash farm receipts with the leading crops being fruits, nuts and vegetables. California is the sole exporter of many agricultural commodities supplying 99 percent or more of the following: almonds, artichokes, dates, dried plums, figs, garlic, kiwi, olives and olive oil, pistachios, raisins, table grapes, and walnuts.

# Export Commodities<sup>1/</sup>

## 2016 Federal Export Certificates



19,002 federal certificates issued to 96 countries

92.7% of the certificates issued to 7 countries

235 seed samples drawn for export certification

### Countries

Japan	35.4%	Canada	4.3%
Mexico	34.0%	Taiwan	2.2%
Republic of Korea	8.1%	United Arab Emirates	2.1%
China	6.6%	Other Countries	7.3%

### Commodities Exported<sup>2/</sup>

Hay & Straw	40.4%
Vegetables	32.9%
Seed	13.9%
Other	12.8%



## 2016 State Certificates

1,061 state certificates issued to 8 states and 3 territories

95.2% of the certificates issued to 2 states



### States or Territories

Hawaii	53.7%
Florida	41.5%
California	2.6%
Texas	0.9%
Other States	1.3%

### Commodities Exported<sup>2/</sup>

Vegetables	87.9%
Nursery	11.2%
Other	0.8%
Seed	0.1%

<sup>1/</sup>Based on USDA Phytosanitary Certification Program

<sup>2/</sup>Not all commodities originated in Imperial County



# Pest Detection, Eradication & Management

This program is mandated to monitor agricultural and urban areas for harmful exotic pests using trapping and visual surveys, and to control or eradicate exotic pests as appropriate in order to protect the local agricultural industry, environment, the public and landscaping. Surveys continue for the Mediterranean fruit fly, Mexican fruit fly, oriental fruit fly, melon fly, gypsy moth, Japanese beetle, glassy-winged sharpshooter, Asian Citrus psyllid, and red imported fire ant. The department also provides field inspection services for growers that wish to export commodities, pest identification services, and enforcement of pest related laws and regulations intended to protect the local agricultural industry.

## Pest Detection Trapping

Target Pest	Pest Detection Method	Number of Traps	Annual Trap Services	Host Crops
Asian Citrus Psyllid	Yellow Sticky Trap	165	6,087	Citrus
ACP population monitoring	2 mile delimitation from the International Border — finds result in state treatment			
European Corn Borer	Pheromone	12	84	Corn & Sorghum
Various Exotic Fruit Flies	Feeding Attractant	110	1,322	Fruit Trees & Vegetables
Glassy-winged Sharpshooter	Yellow Sticky Trap	479	9,836	Crops & Ornamentals
Gypsy Moth	Pheromone	59	433	Shade Trees
Japanese Beetle	Pheromone	59	433	Turf & Flowers
Khapra Beetle	Feeding Attractant/Pheromone	36	379	Stored Food Products
Mediterranean Fruit Fly	Pheromone	121	5,265	Fruit Trees
Melon Fruit Fly	Pheromone	121	4,464	Vegetables
Mexican Fruit Fly	Feeding Attractant	121	5,262	Fruit Trees
Oriental Fruit Fly	Pheromone	121	5,262	Fruit Trees



## Pest Detection Surveys

Target Pest/Survey Sites	Area Surveyed	Inspections & Finds	Actions
Noxious Weeds/Ag & Urban:	970 Total Miles	11 Total Positive Sites:	
Puncture Vine, C-rated		5 Positive Sites	1 Site Mechanical Removal
Johnson Grass, C-rated		5 Positive Sites	
Cucumis melo var. Dudaim. A-rated		1 Positive Site	1 Site Mechanical Removal
Karnal Bunt/Wheat	10 Fields	No Finds	No Action Needed
Red Imported Fire Ant	43 High Risk Sites	No Finds	No Action Needed
Glassy-winged Sharpshooter	Retail Nursery Stock Shipments	1,443 Inspections	5 Finds: Returned to Origin
		23 Rejections	121 Rejections not due to finds
	Bulk Citrus Fruit	132 Inspections	No Finds—No Action Needed
Pathogens of Concern for Seed Export	Seed Fields	447 Fields Surveyed (By Request Only)	293 Target Pest of Concern (Listed on Field Walk Report)

# Plant Quarantine, Exclusion & Certification



The division is mandated to exclude exotic agricultural, urban, and environmental pests and to prevent movement of newly discovered pests within the state. This is accomplished through inspection of incoming agricultural products and enforcement of quarantines that prohibit or restrict the movement of plants, seeds and other items capable of harboring harmful pests. In addition, certificates of quarantine compliance and phytosanitary certificates are issued for commodities originating here, in order to assist growers in moving their products to other counties, states or countries.

## Plant Quarantine Pest Exclusion Inspections ~ Shipments Entering Imperial County

Type of Inspection	Inspections	Pounds	Origin
Field & Vegetable Seed	770	15,954,264	Argentina, Arizona, California, Chile, Florida, Idaho, Illinois, Nebraska, Oregon, Tennessee, Texas, Washington, Wyoming
Plants	159	-	Arizona, Michigan, Pennsylvania, Texas, Iowa, New Jersey, Mississippi, California
	82	-	
Bees	5	-	Arizona, Montana

## Nursery & Seed Inspection

The goals of the nursery inspection programs are to prevent the introduction and spread of agricultural pests through nursery stock and to protect agriculture and the consumer against economic losses resulting from the sale of inferior, defective, or pest-infested nursery stock. The seed law enforcement program protects seed consumers by regulation of the marketing of seed, inspection of seed grown or sold locally, verification of purity and germination, investigation of seed complaints, and prevention of the spread of noxious weed seeds through seed products. Also included in this program is the California Certified Seed Program in which superior varieties of seed are grown, processed and distributed under close supervision.

### Nursery Inspections

Type of Inspection	Locations	Production Acres	Nursery Stock Type
Production Nursery	20	541	Palms, Bamboo, Vegetable Transplants, Ornamentals, Cut Flowers, Succulents
Retail Nursery	39	-	Retail Flowers, Trees and Shrubs

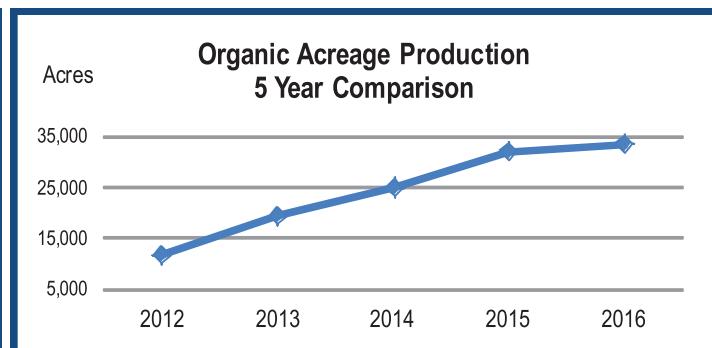
## California Crop Improvement Association Inspections & Certification

Type of Inspection	Inspection	Seed Transfer Certification	Number of Certificates
Harvest Equipment	56	In-State	63
		Out of State	72

## Organic Grower Program

The Organic Program is responsible for enforcement of the Federal Organic Foods Production Act of 1990 and the California Organic Products Act of 2003. These statutes protect consumers, producers, handlers, processors and retailers by monitoring and inspecting fresh commodities grown, labeled or sold as organic.

Year	Growers	Acres	Gross Value
2016	48	33,505	\$242,404,000
2015	36	31,934	\$275,382,000
2014	28	25,156	\$159,938,000
2013	26	19,433	\$80,904,000
2012	26	11,989	\$39,396,000





# Mission Statement

To promote and protect our agricultural industry by providing clear direction and appropriate regulatory oversight while protecting our citizens and the environment through the enforcement of pesticide laws, weight and measurement standards, the detection and eradication of pests harmful to our agricultural industry, human health, and other plant resources.

## Department Description

The County Agricultural Commissioner is charged with enforcing the laws of the California Food and Agricultural Code. These laws and the regulations of the California Code of Regulations address the many aspects and complexities of agricultural production in California. The Agricultural Commissioner must carry out the mandated duties required by the above mentioned codes.

Significant activities include Pesticide Use Enforcement, Pest Detection and Eradication, Pest Exclusion and Quarantine Certification of Agricultural Produce for Export, Pest Management, Seed Law Enforcement, Nursery Inspection, and Crop Statistics. Additional activities may include Fruit and Vegetable Quality Control, Inspections of Imported Produce at the Port of Entry Calexico-East, and Egg Quality Control.

The Agricultural Commissioner is also mandated to enforce the Weights and Measures laws in the Business and Professions Code. These activities include the inspection and certification of all commercial weighing and measuring devices in the County. Inspection of all gasoline pumps, water meters, truck scales and retail scales are a few examples of the activities in this area.



### Meet our Agricultural Commissioner/Sealer

In December 2016, Carlos Ortiz was named Imperial County Agricultural Commissioner and Sealer of Weights and Measures. He began his position following a nearly 30-year-career in the Agricultural Commissioner's Office.

The son of a field worker who immigrated to the United States under the Bracero program, Ortiz grew up between two countries, Mexico and the United States, and he spent his youth - after school and during summers - working



**Carlos Ortiz**

with his father in the fields of Southern California and on his father's own ranch in Mexico.

In his current role, Ortiz leads a staff of 38 dedicated men and women. For Ortiz and his staff, partnerships are critical to the success of the County's billion-dollar agricultural economy with crops grown on some 400,000 farmable acres. He and his staff are there to serve and support growers, businesses, and the public.

Excerpt by Darren Simon: Imperial-San Diego Currents

# Agricultural Commissioner's Staff



## Assistant Agricultural Commissioner/Sealer



Jolene Dessert

## Clerical



Left to Right:

**Monica Shelton**, Office Supervisor II  
**Adriana Anguis**, Office Assistant III  
**Samantha Bogenholm**, Account Clerk III  
**Cesar Marron**, Office Assistant II  
**Maria Luera**, Accounting Technician (not pictured)

## Pest Detection & Eradication Division



Top Left to Right:

**Nicolas Berg**, Agricultural Biologist III

**John Molina**, Agricultural Assistant

**Heriberto Sanchez**, Agricultural Biologist III

Bottom left to right:

**Robert Japp**, Agricultural Assistant

**Margo Sanchez**, Deputy Agricultural Commissioner

**Germania Salazar**, Agricultural Biologist I

**Kelley Jackson**, Agricultural Biologist I

**Laura Arellano**, Plant Pathologist/Entomologist

**Eduardo Gonzalez**, Agricultural Assistant

**Rene Peinado**, Agricultural Assistant

**Jaciel Lainez**, Agricultural Assistant

**Jose Luis Encalada**, Agricultural Biologist III

**Reyes Triviso**, Agricultural Biologist IV

## Pest Exclusion/Weights & Measures Division



Left to Right:

**David Claverie**, Agricultural Biologist III

**Paul Deol**, Agricultural Biologist III

**Ramon Ortega**, Agricultural Biologist III

**Frank Duarte**, Agricultural Biologist III

**Nelson Perez**, Deputy Agricultural Commissioner/Sealer

**Antonio Venegas**, Agricultural Biologist I

**Baldev Singh**, Agricultural Biologist III

## Pesticide Use Enforcement Division



Top Left to Right:

**Julian Lopez**, Agricultural Biologist IV

**Joseph Andreotti**, Agricultural Biologist III

**Jeffrey Lopez**, Agricultural Biologist III

Bottom left to right:

**Francisco Rodriguez**, Agricultural Biologist I

**Brenda Suarez**, Agricultural Biologist II

**Sandy Pereda**, Data Entry Operator

**Cynthia Paz**, Agricultural Biologist III

**Lupe Orozco**, Office Technician

**Rachel Garewal**, Deputy Agricultural Commissioner

**Hiram Rocha**, Agricultural Biologist III

## Special Projects Coordinator



Sandra Mendivil

**Carlos Ortiz**  
Agricultural Commissioner  
Sealer of Weights and Measures  
852 Broadway  
El Centro, CA 92243-2850





# 2017 Annual Crop & Livestock Report



# 2017 Annual Crop & Livestock Report

## Table of Contents

- 2 Agricultural Commissioner's Letter
- 3 Production Summary, Top Ten Commodities & Production Areas
- 4 10 Year Comparison of Major Groups & California Agricultural Statistics ~ 2016
- 5 Livestock & Apiary Products
- 6 Field Crops
- 7 Fruit & Nut Crops
- 8 Seed Crops & Nursery Products
- 9 Vegetable & Melon Crops
- 11 2017 Export Commodities: A Closer Look At Our Trading Partners
- 13 Sustainable Agriculture



Agricultural Commissioner  
Carlos Ortiz

Assistant Agricultural  
Commissioner  
Jolene Dessert\*

Deputy Agricultural  
Commissioners  
Rachel Garewal  
Nelson Perez  
Margo Sanchez

Special Projects Coordinator  
Sandra Mendivil

Plant Pathologist/  
Entomologist  
Laura Arellano\*

**Agricultural Biologists**

Joseph Andreotti  
Nicolas Berg  
David Claverie  
Paul Deol  
Samuel Gretencord  
Kelley Jackson  
Jeffrey Lopez  
Julian Lopez  
Germania Mejia  
Ramon Ortega  
Cynthia Paz  
Hiram Rocha  
Francisco Rodriguez  
Heriberto Sanchez  
Baldev Singh  
Brenda Suarez  
Sandra Torres  
Reyes Triviso  
Antonio Venegas

**Agricultural Assistants**

Eduardo Gonsalez  
Robert Japp  
Jaci Lainez\*  
Mark Fitzurka  
John Molina  
Rene Peinado\*

**Office Supervisor**  
Monica Shelton\*

**Clerical**  
Samantha Bogenholm  
Maria Luera\*  
Lupe Orozco  
Sandy Pereda

\*Not Pictured

Cover Photo by Joseph Andreotti



Office of the  
**Agricultural Commissioner**  
**Sealer of Weights & Measures**

July 10, 2018

Carlos Ortiz  
Agricultural Commissioner  
Sealer of Weights & Measures

Jolene Dessert  
Asst. Agricultural Commissioner  
Asst. Sealer of Weights & Measures

**Karen Ross, Secretary**

California Department of Food and Agriculture  
and

**The Honorable Board of Supervisors, County of Imperial**

Supervisor Raymond "Ray" Castillo, Chairman, District 5  
Supervisor John R. Renison, District 1  
Supervisor Luis A. Plancarte, District 2  
Supervisor Michael W. Kelley, District 3  
Supervisor Ryan E. Kelley, District 4

I am pleased to present the 2017 Imperial County Agricultural Crop and Livestock Report in accordance with the requirements of Section 2279 of the California Food and Agricultural Code. This report summarizes the estimated acreage, yield, and gross value of Imperial County's agricultural production for the 2017 calendar year. Also included is a report on sustainable agriculture pursuant to Section 2272 of the California Food and Agricultural Code.

The values presented in this report represent the gross value for products and do not reflect the cost of production, marketing, storage, or transportation. No attempt is made to reflect the net income, profit, or loss to producers.

Gross production for 2017 was valued at \$2,065,600,000. This is an increase of \$2,386,000 (0.12%) compared to the 2016 gross value of \$2,063,214,000. The increase was mainly due to an increase in some winter vegetable prices. Cabbage, cauliflower and particularly leaf lettuce had much higher prices. The miscellaneous certified and non-certified seed category also saw an increase in harvested acres.

Cattle ranked as our #1 commodity with a gross value of \$387,170,000 despite a decrease of 3.36% from 2016. This was due to a 5% decrease in market price. Leaf Lettuce moved from #3 in 2016 to #2 and Head Lettuce from #6 in 2016 to #4 in 2017 mainly due to better market prices. Sugar beets moved from #12 in 2016 to #10 in 2017.

In 2017, there was a decrease of 2,792 total harvested acres, down 0.52% from 2016. Although the Field, Vegetable & Melon Crop categories saw a decrease in harvested acres, a significant increase in harvested acres occurred in the Fruit and Nut Crops and Seed and Nursery Products categories. Sudan showed the largest increase in harvested acres, up 11.7% with an increase of 5,064 acres.

Thank you to all the growers, processors, industry groups, and agencies who provided the information and statistics for this report; your help in this effort is truly appreciated. In addition, I would like to express my appreciation to all of the members of my staff for their continued hard work and dedication and particularly to Sandra Mendivil, Special Projects Coordinator, for her work in compiling this annual report.

Sincerely,

A handwritten signature in blue ink that reads "Carlos Ortiz".

Carlos Ortiz  
Agricultural Commissioner  
Sealer of Weights and Measures

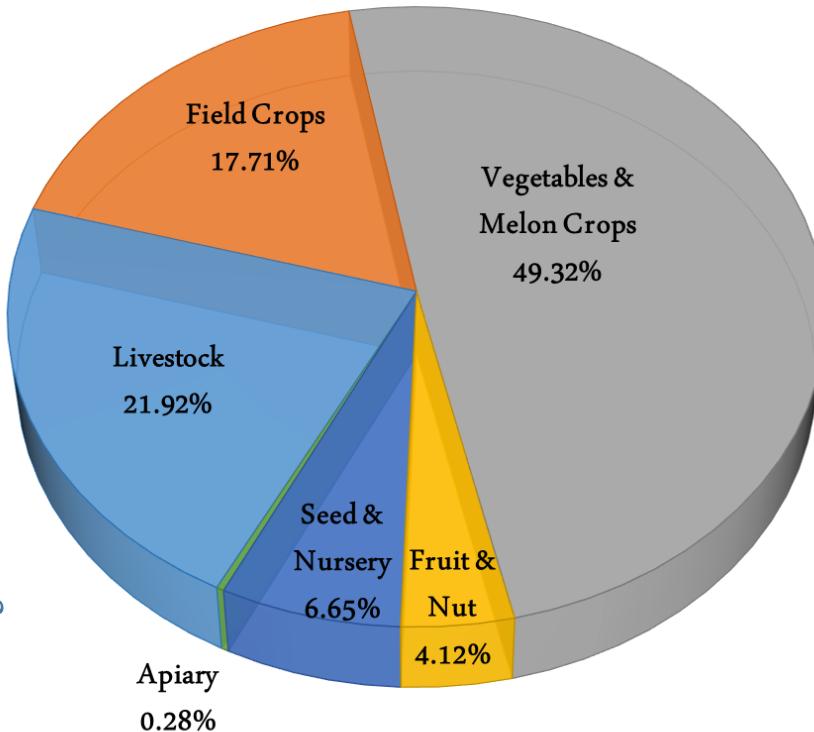


# 2017 Production Summary

Category	Harvested Acres		Changes in Harvested Acres	Gross Value		Changes in Gross Value
	2016	2017		2016	2017	
Livestock				\$468,176,000	\$452,708,000	-3.30%
Field Crops	333,762	326,667	-2.13%	\$381,181,000	\$365,819,000	-4.03%
Vegetable & Melon Crops	133,593	128,769	-3.61%	\$1,006,345,000	\$1,018,764,000	1.23%
Fruit & Nut Crops	9,443	10,209	8.11%	\$80,098,000	\$85,186,000	6.35%
Seed & Nursery Crops	65,266	73,627	12.81%	\$123,057,000	\$137,286,000	11.56%
Apiary Products				\$4,357,000	\$5,837,000	33.97%
<b>Total</b>	<b>542,063</b>	<b>539,272</b>	<b>-0.52%</b>	<b>\$2,063,214,000</b>	<b>\$2,065,600,000</b>	<b>0.12%</b>

*Total harvested acres include multiple cropping on individual fields throughout the year.*

## Crop Grouping Values



## Top 10 Commodities

Rank 2017	Commodity	2017 Gross Value	Rank 2016
1	Cattle	\$387,170,000	1
2	Leaf Lettuce	\$217,717,000	3
3	Alfalfa	\$148,879,000	2
4	Head Lettuce	\$116,612,000	6
5	Broccoli	\$94,806,000	5
6	Spinach	\$84,450,000	7
7	Onion	\$79,069,000	4
8	Alfalfa Seed	\$75,433,000	8
9	Carrots	\$55,029,000	10
10	Sugar Beets	\$53,599,000	12

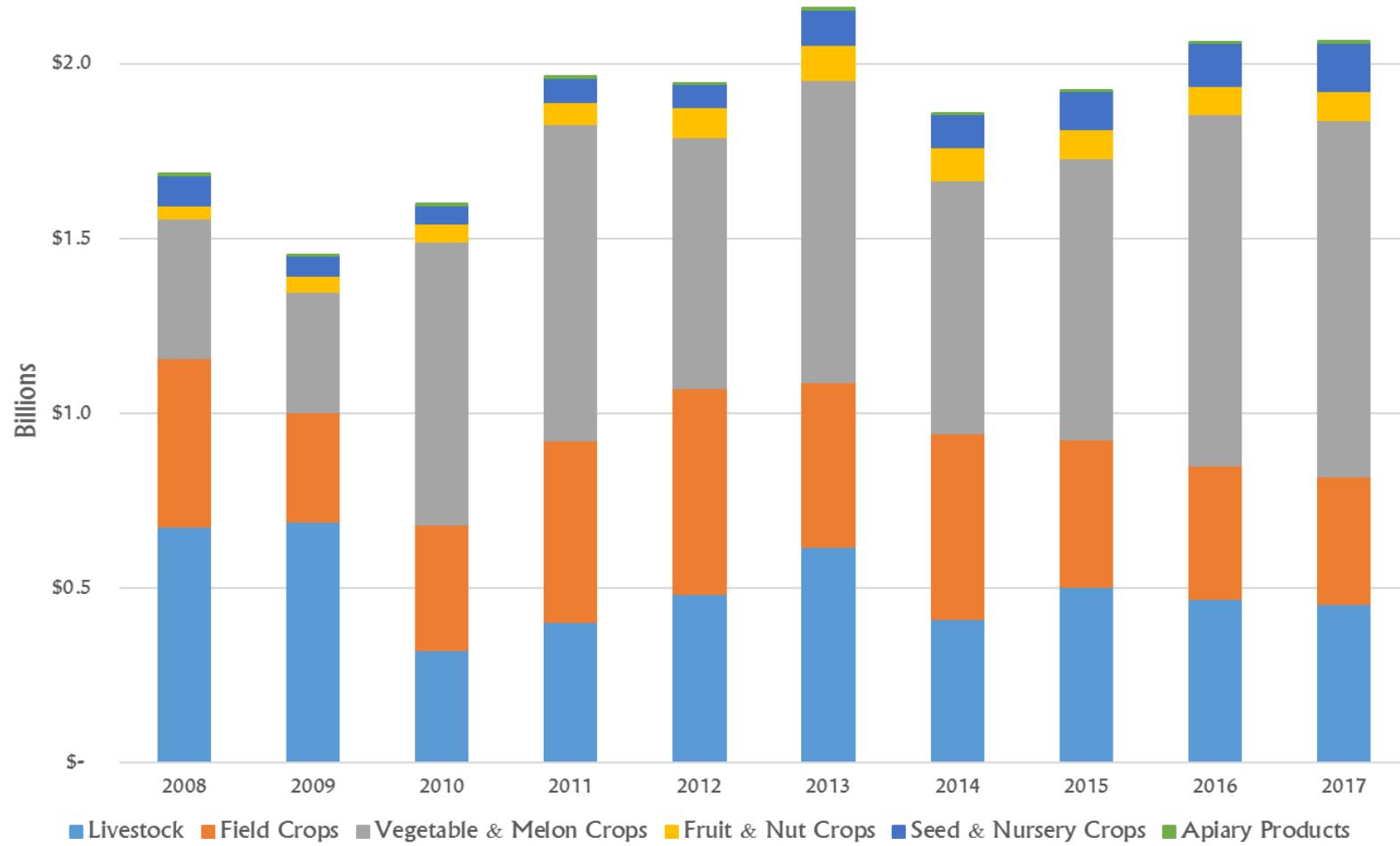
## Agricultural Production Areas

Imperial County has three areas of production:  
Imperial Valley, Bard/Winterhaven & Palo Verde

### 2017 Total County Farmable Acres

Imperial County	455,461
Bard/Winterhaven	14,673
Palo Verde	7,728
<b>Total</b>	<b>477,862</b>

# Comparison of Valuation of Major Groups During the Past Ten Years



■ Livestock ■ Field Crops ■ Vegetable & Melon Crops ■ Fruit & Nut Crops ■ Seed & Nursery Crops ■ Apiary Products

Year	Livestock	Field Crops	Vegetable & Melon	Fruit & Nut Crops	Seed & Nursery	Apiary Products
2017	\$452,708,000	\$365,819,000	\$1,018,764,000	\$85,186,000	\$137,286,000	\$5,837,000
2016	\$468,176,000	\$381,181,000	\$1,006,345,000	\$80,098,000	\$123,057,000	\$4,357,000
2015	\$502,065,000	\$422,319,000	\$805,021,000	\$83,277,000	\$107,673,000	\$4,779,000
2014	\$410,512,000	\$530,849,000	\$723,260,000	\$95,909,000	\$93,818,000	\$4,441,000
2013	\$617,371,000	\$470,461,000	\$865,401,000	\$100,019,000	\$100,557,000	\$4,708,000
2012	\$483,833,000	\$587,977,000	\$718,219,000	\$85,154,000	\$67,432,000	\$3,144,000
2011	\$403,880,000	\$518,257,000	\$903,959,000	\$64,237,000	\$68,877,000	\$4,877,000
2010	\$321,022,000	\$360,139,000	\$809,126,000	\$51,294,000	\$52,952,000	\$4,001,000
2009	\$690,311,000	\$312,544,000	\$343,201,000	\$47,765,000	\$55,577,000	\$3,562,000
2008	\$675,242,000	\$482,588,000	\$398,789,000	\$37,342,000	\$86,789,000	\$3,772,000

## California Agricultural Statistics—2016

*California Agricultural Statistics are compiled annually from County Agricultural Commissioner Crop Reports*

- ❖ In 2016, Imperial County ranked #9 out of 58 California Counties with a gross value of agricultural production at \$2,063,214,000.
- ❖ According to the 2016-2017 review of the 2016 Ag Statistics by CDFA, Imperial County was the sole producer of sugar beets; #1 producer of alfalfa hay, onions, wheat, sweet corn, alfalfa seed, and Sudan hay; and among the top five producers of cattle and calves, lettuce, broccoli, carrots, celery, cauliflower, spinach, potatoes, cantaloupes, watermelon, sheep and lambs, salad greens, grapefruit, dates and honeydew melons.
- ❖ In 2016, California remained the leading state in cash farm receipts with the leading crops being fruits, nuts and vegetables.



# Livestock

Production						Value	
Item	Year	Head	Unit Gain	Total Gain	Unit	Per Unit	Gross Value
<b>Cattle (Feedlot)</b>	2017	344,937	10.05	3,467,192	Cwt	\$111.67	\$387,170,000
	2016	337,286	10.06	3,394,630	Cwt	\$118.01	\$400,614,000
<b>Sheep (Feeders)</b>	2017	60,000	0.53	31,620	Cwt	\$136.05	\$4,302,000
	2016	62,000	0.54	33,700	Cwt	\$136.11	\$4,587,000
<b>Sheep (Wool)</b>	2017	60,000	4.60	276,000	Lbs.	\$1.26	\$347,000
	2016	62,000	6.60	409,200	Lbs.	\$1.50	\$614,000
<b>Aquatic Products</b>	2017						\$10,494,000
(Fish & Algae)	2016						\$12,298,000
<b>Misc. Livestock</b>	2017						\$50,395,000
	2016						\$50,063,000
<b>Total 2017</b>					Value		\$452,708,000
<b>Total 2016</b>					Value		\$468,176,000

Misc. Livestock may include: Calves, Replacement Cattle, Dairy Animals, Milk, Manure/Compost, California Mid-Winter Fair & Fiesta Show Animals.  
Cwt = 100 Pounds



# Apiary Products

Production						Value	
Crop	Year	Hives	Yield	Total Units	Unit	Per Unit	Gross Value
<b>Honey</b>	2017	26,176	10.18	266,404	Lbs.	\$1.88	\$500,000
	2016	17,312	16.13	279,193	Lbs.	\$1.63	\$456,000
<b>Wax</b>	2017	8,200	0.76	6,259	Lbs.	\$3.55	\$22,000
	2016	14,150	1.69	23,900	Lbs.	\$3.81	\$91,000
<b>Pollination</b>	2017	86,520			Colony	\$61.43	\$5,315,000
	2016	62,591			Colony	\$60.87	\$3,810,000
<b>Total for 2017</b>					Value		\$5,837,000
<b>Total for 2016</b>					Value		\$4,357,000



# Field Crops

Crop	Year	Production					
		Harvested Acres	Yield Per Acre	Total	Unit	Value Per Unit	Gross Value
<b>Alfalfa Hay</b>	2017	151,620	6.06	918,768	Ton	\$162.04	\$148,879,000
	2016	154,861	7.19	1,114,002	Ton	\$133.68	\$148,915,000
<b>Bermuda Grass Hay</b>	2017	52,101	6.50	338,825	Ton	\$149.43	\$50,632,000
	2016	50,704	7.89	399,959	Ton	\$135.28	\$54,107,000
<b>Cotton (Lint)<sup>1/</sup></b>	2017	3,109	4.32	13,432	Bale	\$397.75	\$5,343,000
	2016	2,004	3.90	7,817	Bale	\$356.79	\$2,789,000
<b>Cotton (Seed)</b>	2017			4,653	Ton	\$181.20	\$843,000
	2016			2,722	Ton	\$155.39	\$423,000
<b>Klein Grass Hay</b>	2017	14,510	8.45	122,624	Ton	\$169.00	\$20,723,000
	2016	14,590	10.00	145,900	Ton	\$164.94	\$24,065,000
<b>Pastured Crops<sup>2/</sup></b>	2017	38,509			Acre	\$34.12	\$1,314,000
	2016	36,834			Acre	\$36.87	\$1,358,000
<b>Straw (Baled)</b>	2017			140,151	Ton	\$36.65	\$5,136,000
	2016			104,512	Ton	\$37.35	\$3,904,000
<b>Sudan Grass Hay</b>	2017	48,331	5.62	271,637	Ton	\$175.88	\$47,776,000
	2016	43,267	5.66	244,805	Ton	\$150.00	\$36,721,000
<b>Sugar Beets</b>	2017	24,929	45.07	1,123,667	Ton	\$47.70	\$53,599,000
	2016	24,634	44.75	1,102,333	Ton	\$46.93	\$51,732,000
<b>Wheat</b>	2017	23,441	3.21	75,324	Ton	\$223.90	\$16,865,000
	2016	33,685	3.21	108,129	Ton	\$287.12	\$31,046,000
<b>Misc. Field Crops</b>	2017	8,626					\$14,709,000
	2016	10,017					\$26,121,000
<b>Total 2017</b>	<b>Acres</b>	<b>326,667</b>			<b>Value</b>		<b>\$365,819,000</b>
<b>Total 2016</b>	<b>Acres</b>	<b>333,762</b>			<b>Value</b>		<b>\$381,181,000</b>

Misc. Field Crops may include: Barley, Field Corn, Mixed Grasses, Oat, Ryegrass, Safflower, Sesbania, Sorghum Grain, Sorghum Silage, Sugar Beet Pulp, Sugar Beet Molasses, Sugarcane, Triticale

<sup>1/</sup>Cotton Bales = 500 Pounds

<sup>2/</sup>Pastured Crops are pastured once and the acreage is not included in the total and may include: Alfalfa, Bermuda Grass, Permanent Pasture





# Fruit & Nut Crops

Production							
Crop	Year	Acres	Yield	Total	Unit	Value	Gross Value
<b>Dates</b>	2017	2,629	3.45	9,080	Ton	\$2,831.33	\$25,712,000
	2016	2,136	2.75	5,878	Ton	\$3,243.90	\$19,069,000
<b>Grapefruit</b>	2017	770	10.64	8,190	Ton	\$560.42	\$4,590,000
	2016	818	12.89	10,540	Ton	\$413.64	\$4,360,000
<b>Lemons</b>	2017	4,419	11.42	50,444	Ton	\$865.00	\$43,634,000
	2016	4,413	11.97	52,805	Ton	\$859.07	\$45,363,000
<b>Tangelos</b>	2017	579	4.63	2,680	Ton	\$498.00	\$1,335,000
	2016	520	3.66	1,906	Ton	\$621.06	\$1,184,000
<b>Tangerines</b>	2017	563	5.67	3,190	Ton	\$938.25	\$2,993,000
	2016	510	5.31	2,710	Ton	\$673.68	\$1,826,000
<b>Misc. Citrus, Fruit &amp; Nut Crops</b>	2017	1,249					\$5,941,000
	2016	1,046					\$4,443,000
<b>Citrus By-Products</b>	2017						\$981,000
	2016						\$3,853,000
<b>Total 2017</b>	Acres	10,209			Value		\$85,186,000
<b>Total 2016</b>	Acres	9,443			Value		\$80,098,000

Misc. Fruit & Nut Crops may include: Orange, Grape, Lime, Mango, Olives, Kumquat



# Seed Crops & Nursery Products

Crop	Year	Production					Value Per Unit	Gross Value
		Harvested Acres	Yield Per Acre	Total	Unit			
<b>Alfalfa Seed</b>								
Non-Certified	2017	9,299	677.53	6,300,306	Lbs.	\$2.26	\$14,239,000	
	2016	10,479	584.37	6,123,618	Lbs.	\$2.53	\$15,480,000	
Certified	2017	35,088	542.77	19,044,550	Lbs.	\$3.21	\$61,194,000	
	2016	30,670	667.27	20,465,255	Lbs.	\$3.39	\$69,431,000	
<b>Total Alfalfa Seed</b>	<b>2017</b>	<b>44,387</b>	<b>571.00</b>	<b>25,344,856</b>	<b>Lbs.</b>	<b>\$2.98</b>	<b>\$75,433,000</b>	
	2016	41,149	646.16	26,588,873	Lbs.	\$3.19	\$84,911,000	
<b>Bermuda Grass Seed</b>								
Non-Certified	2017	17,616	245.00	4,315,920	Lbs.	\$4.97	\$21,445,000	
	2016	17,085	270.00	4,612,950	Lbs.	\$3.00	\$13,839,000	
Certified	2017	3,204	277.38	888,734	Lbs.	\$5.05	\$4,485,000	
	2016	3,675	481.04	1,767,840	Lbs.	\$3.50	\$6,188,000	
<b>Total Bermuda Grass Seed</b>	<b>2017</b>	<b>20,820</b>	<b>249.98</b>	<b>5,204,654</b>	<b>Lbs.</b>	<b>\$4.98</b>	<b>\$25,930,000</b>	
	2016	20,760	307.36	6,380,790	Lbs.	\$3.14	\$20,027,000	
<b>Onion Seed</b>	<b>2017</b>	<b>697</b>	<b>347.71</b>	<b>242,351</b>	<b>Lbs.</b>	<b>\$7.27</b>	<b>\$1,762,000</b>	
	2016	684	220.83	151,050	Lbs.	\$9.43	\$1,424,000	
<b>Misc. Seed &amp; Nursery</b>								
Misc. Non-Certified Seed	2017	3,660					\$20,789,000	
	2016	1,108					\$10,088,000	
Misc. Certified Seed	2017	3,448					\$5,690,000	
	2016	972					\$533,000	
Misc. Nursery Products	2017	615					\$7,682,000	
	2016	593					\$6,074,000	
<b>Total 2017</b>	<b>Acres</b>	<b>73,627</b>				<b>Value</b>	<b>\$137,286,000</b>	
<b>Total 2016</b>	<b>Acres</b>	<b>65,266</b>				<b>Value</b>	<b>\$123,057,000</b>	

Misc. Seed and Nursery Products may include: Sunflower Seed, Broccoli Seed, Celery Seed, Wheat Seed, Coriander Seed, Fennel Seed, Artichoke Seed, Rapeseed, Parsley Seed, Mustard Seed, Swiss Chard Seed, Carrot Seed, Cut Flowers, Aloe Vera, Palm Trees, Vegetable Transplants





# Vegetables & Melon Crops

Production							
Crop	Year	Acres	Yield	Total Units	Unit	Value	Gross Value
<b>Broccoli (Market)</b>	2017	13,785	442.11	6,094,475	26 Lbs. Ctn	\$15.56	\$94,806,000
	2016	14,579	472	6,885,855	26 Lbs. Ctn	\$17.51	\$120,562,000
<b>Cabbage (Market)</b>	2017	1,949	642.65	1,252,524	45 Lbs. Ctn	\$21.62	\$27,079,000
	2016	1,653	777	1,283,903	45 Lbs. Ctn	\$11.48	\$14,733,000
<b>Carrots</b>							
Market	2017	4,940	975.76	4,820,247	50 Lbs. Bag	\$2.75	\$13,264,000
	2016	4,642	706	3,277,906	50 Lbs. Bag	\$3.29	\$10,780,000
Processing & Other	2017	11,525	31.64	364,677	Ton	\$114.53	\$41,765,000
	2016	10,830	29.07	314,873	Ton	\$162.79	\$51,258,000
<b>Total Carrots</b>		16,465					\$55,029,000
		15,472					\$62,038,000
<b>Cauliflower (Market)</b>	2017	4,794	740.75	3,551,135	23 Lbs. Ctn	\$12.91	\$45,858,000
	2016	4,428	787	3,484,515	23 Lbs. Ctn	\$10.35	\$36,053,000
<b>Head Lettuce</b>							
Naked Pack	2017			2,221,335	50 Lbs. Ctn	\$9.71	\$21,558,000
	2016			2,466,093	50 Lbs. Ctn	\$8.50	\$20,962,000
Wrap Pack	2017			5,553,338	40 Lbs. Ctn	\$9.35	\$51,938,000
	2016			7,398,278	40 Lbs. Ctn	\$8.75	\$64,735,000
Bulk	2017			4,442,671	50 Lbs. Ctn	\$9.71	\$43,116,000
	2016			3,945,748	50 Lbs. Ctn	\$8.50	\$33,539,000
<b>Total Head Lettuce</b>		17,115		12,217,344	Ctn	\$9.54	\$116,612,000
		18,031		13,810,119	Ctn	\$8.63	\$119,236,000
<b>Leaf Lettuce</b>	2017	15,440	645.33	9,963,947	35 Lbs. Ctn	\$21.85	\$217,717,000
	2016	14,310	560	8,013,191	35 Lbs. Ctn	\$16.62	\$133,212,000
<b>Spring Mix</b>	2017	2,557	11,912.67	30,460,689	Lbs.	\$0.56	\$17,004,000
	2016	2,973	11,381	33,835,713	Lbs.	\$0.83	\$28,013,000

Spring Mix may include: Green, Red and Baby Leaf Lettuce; Beet Tops, Mizuna, Mustard





# Vegetables & Melon Crops

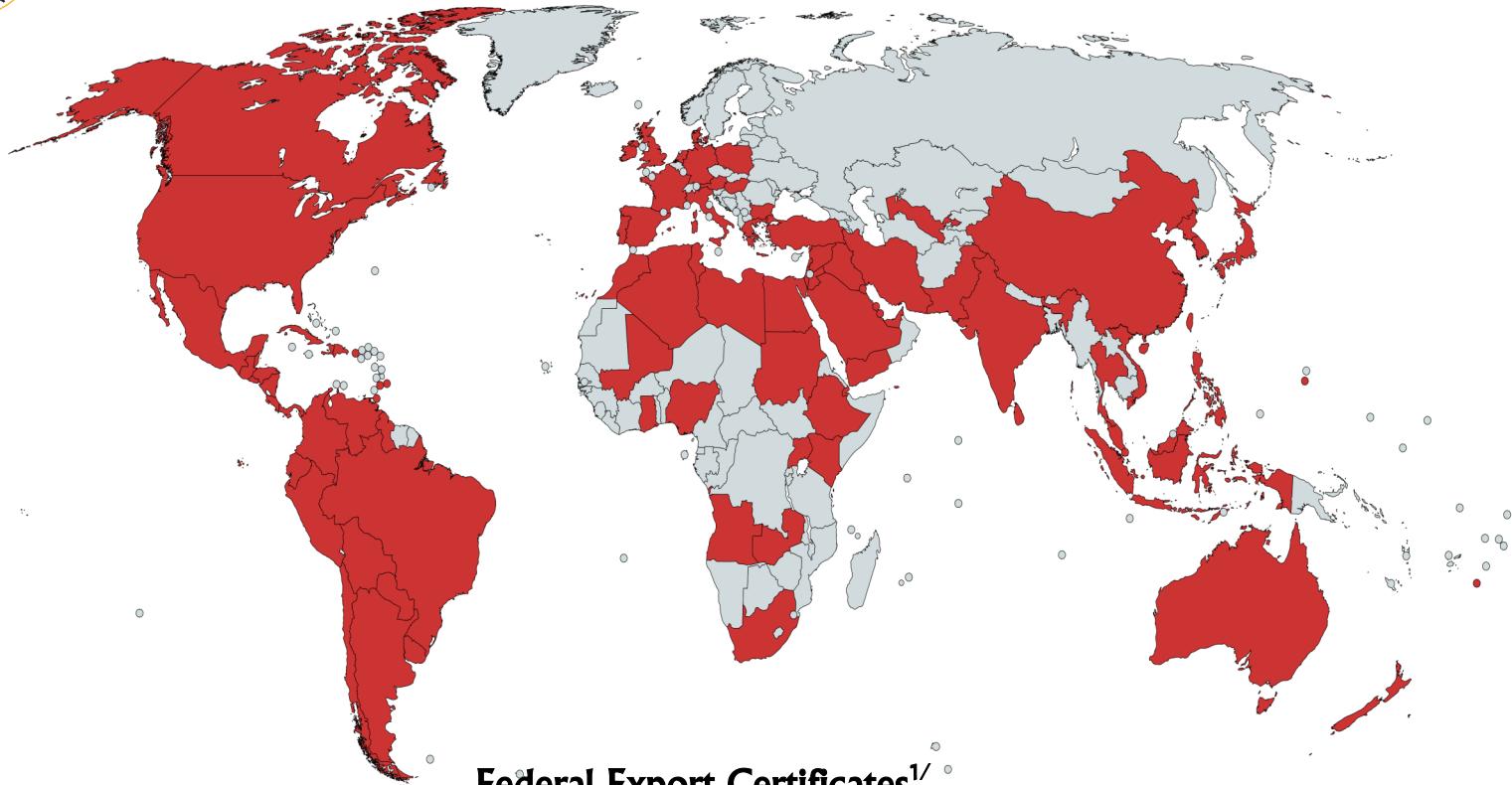
Crop	Year	Production					
		Harvested Acres	Yield Per Acre	Total Units	Unit	Value Per Unit	Gross Value
<b>Onions</b>							
Market	2017	4,153	1,668.75	6,930,319	50 Lbs. Sack	\$7.77	\$53,829,000
	2016	3,924	1,702	6,678,648	50 Lbs. Sack	\$9.19	\$61,396,000
Processor	2017	8,934	18.53	165,547	Ton	\$152.46	\$25,240,000
	2016	9,813	24.41	239,569	Ton	\$280.00	\$67,080,000
<b>Total Onions</b>	2017	13,087					\$79,069,000
	2016	13,737					\$128,476,000
<b>Potatoes</b>	2017	1,589	491.33	780,721	Cwt	\$17.99	\$14,044,000
	2016	2,243	367	822,732	Cwt	\$26.19	\$21,544,000
<b>Spinach</b>	2017	9,619	11,160.38	107,351,678	Lbs.	\$0.79	\$84,450,000
	2016	10,165	10,246	104,145,699	Lbs.	\$0.93	\$96,508,000
<b>Sweet Corn</b>	2017	7,300	331.52	2,420,096	50 Lbs. Ctn	\$16.01	\$38,754,000
	2016	7,407	445	3,296,115	50 Lbs. Ctn	\$12.50	\$41,201,000
<b>Romaine Lettuce</b>	2017	7,867	419.73	3,301,985	35 Lbs. Ctn	\$14.68	\$48,480,000
	2016	8,122	589	4,787,842	35 Lbs. Ctn	\$14.66	\$70,196,000
<b>Misc. Vegetables</b>	2017	10,349					\$134,702,000
	2016	13,349					\$96,907,000
<b>Cantaloupes</b>	2017	4,790	536.12	2,568,015	40 Lbs. Ctn	\$9.25	\$23,762,000
	2016	5,068	620	3,142,582	40 Lbs. Ctn	\$6.93	\$21,789,000
<b>Honeydew &amp; Misc. Melons</b>	2017	1,035	691.49	715,694	40 Lbs. Ctn	\$13.93	\$9,972,000
<b>Watermelons</b>	2016	1,283	691	886,553	40 Lbs. Ctn	\$9.34	\$8,280,000
	2017	1,028	29.25	30,069	Ton	\$380.00	\$11,426,000
<b>Total 2017</b>	<b>Acres</b>	<b>128,769</b>				<b>Value</b>	<b>\$1,018,764,000</b>
	<b>Total 2016</b>	<b>Acres</b>	<b>133,593</b>			<b>Value</b>	<b>\$1,006,345,000</b>

Misc. Vegetables may include: Artichoke, Arugula, Asparagus, Bok Choy, Brussels Sprouts, Celery, Chinese Cabbage, Cilantro, Collards, Cucumbers, Dill, Endive, Fennel, Herbs, Kale, Mint, Mizuna, Mustard, Napa Cabbage, Okra, Oregano, Parsley, Parsnip, Pepper, Radish, Rapini, Red Beets, Rosemary, Squash, Sweet Basil, Swiss Chard





# 2017 Export Commodities<sup>1/</sup>:



## Federal Export Certificates<sup>1/</sup>

19,264 federal certificates issued to 90 countries

93.6% of the certificates issued to 7 countries

### Percentage of Certificates Issued per Country

Japan	37.1%	Canada	4.1%
Mexico	34.9%	Taiwan	1.9%
Korea	9.9%	United Arab Emirates	1.3%
China	4.4%	Other	6.4%

### Commodities Exported<sup>2/</sup>

Hay & Straw	42.8%
Vegetables	32.8%
Other	13.0%
Seeds	11.4%

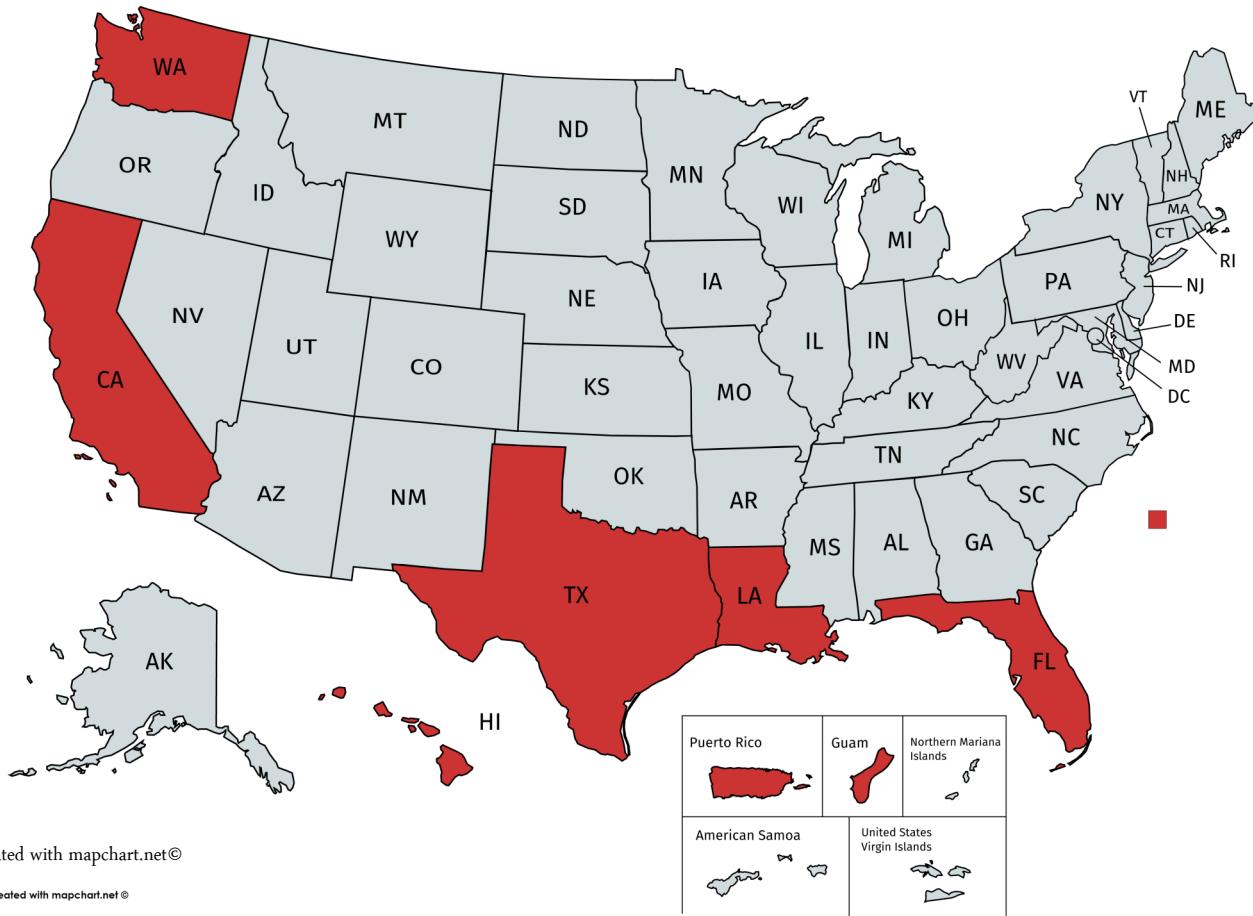
### Countries

Japan	7149	Colombia	34	Egypt	15	Honduras	9	French Polynesia	4	Angola	1
Mexico	6736	France	32	Kenya	15	Portugal	9	Nigeria	4	Austria	1
Republic of Korea	1862	Pakistan	32	Spain	15	Costa Rica	8	Paraguay	4	Bahrain	1
China	858	Haiti	31	Bolivia	13	Iraq	8	Venezuela	4	Barbados	1
Canada	783	Italy	31	Guatemala	13	Trinidad & Tobago	8	Syria	3	El Salvador	1
Taiwan	360	Argentina	27	Nicaragua	13	Lebanon	7	North Korea	3	Ethiopia	1
United Arab Emirates	249	Netherlands	27	Yemen	13	Sudan	7	United States	3	Hungary	1
Saudi Arabia	118	Brazil	24	United Kingdom	12	Thailand	7	Belize	2	Ireland	1
Peru	100	Kuwait	23	Indonesia	10	Ghana	6	Bulgaria	2	Mali	1
Australia	72	Singapore	22	Israel	10	Malaysia	6	Denmark	2	Qatar	1
Jordan	62	Iran	21	New Zealand	10	Morocco	6	Djibouti	2	St. Vincent & Grenadines	1
Chile	49	Sri Lanka	18	Panama	10	Uruguay	6	Greece	2	Tonga	1
Hong Kong	43	South Africa	17	Philippines	10	Germany	5	Guyana	2	Tunisia	1
Vietnam	39	India	16	Turkey	10	Algeria	4	Poland	2	Uganda	1
Ecuador	35	Libya	16	Dominican Republic	9	Cuba	4	Uzbekistan	2	Zambia	1

<sup>1/</sup> Based on USDA Phytosanitary Certification Program

<sup>2/</sup> Not all commodities originated in Imperial County

# A Closer Look At Our Trading Partners



## State Export Certificates<sup>1/</sup>

880 state certificates issued to 8 states and territories

93.2% of the certificates issued to 2 states

States or Territories			
Hawaii	600	Texas	13
Florida	220	Puerto Rico	5
Washington	21	Louisiana	5
California	14	Guam	2

Commodities Exported <sup>2/</sup>	
Vegetables	86.1%
Nursery	12.2%
Seeds	0.9%
Hay & Straw	0.8%

NOTE: Not all U.S. Produce shipments require a phytosanitary certificate

## California and the Global Market Place

According to the 2016-2017 California Agricultural Statistics Review<sup>1</sup>, California leads the country as the largest agricultural producer and exporter.

- ❖ California exported approximately 26% of its agricultural production by volume. This translates to \$20.04 billion in value.
- ❖ California is the sole exporter of many agricultural commodities supplying 99% or more of the following:

- ◆ almonds
- ◆ figs
- ◆ pistachios
- ◆ artichokes
- ◆ garlic
- ◆ raisins
- ◆ dates
- ◆ kiwifruit
- ◆ table grapes
- ◆ dried plums
- ◆ olives and olive oil
- ◆ walnuts

### California's Top 10 Agricultural Export Markets

Rank	Country
1	European Union
2	Canada
3	China/Honk Kong
4	Japan
5	Mexico
6	Korea
7	India
8	Turkey
9	United Arab Emirates
10	Vietnam

<sup>1</sup> <https://www.cdfa.ca.gov/statistics/>



# Sustainable Agriculture

## Pest Detection & Eradication

This division is mandated to monitor agricultural and urban areas for harmful exotic pests in order to protect the local agricultural industry environment, the public and urban landscaping. This is largely accomplished through trapping, visual surveys, and the inspection of incoming nursery stock. This division also provides field inspection services for seed exporters where inspection of the mother plant is required and provides pest identification services.

### Pest Detection Trapping

Target Pest	Pest Detection Method	Number of Traps	Annual Trap Services	Host Crops
European Corn Borer	Pheromone	12	108	Corn & Sorghum
Various Exotic Fruit Flies	Feeding Attractant	110	1,100	Fruit Trees & Vegetables
Glassy-winged Sharpshooter	Yellow Sticky Trap	486	7,660	Crops & Ornamentals
Gypsy Moth	Pheromone	60	419	Shade Trees
Japanese Beetle	Pheromone	60	416	Turf & Flowers
Khapra Beetle	Feeding Attractant/Pheromone	36	426	Stored Food Products
Mediterranean Fruit Fly	Pheromone	121	4,496	Fruit Trees
Melon Fruit Fly	Pheromone	121	4,493	Vegetables
Mexican Fruit Fly	Feeding Attractant	121	4,500	Fruit Trees
Oriental Fruit Fly	Pheromone	121	4,494	Fruit Trees

### Pest Detection Survey

Target Pest/Survey Sites	Area Surveyed	Inspections & Finds	Actions
Asian Citrus Psyllid/Huanglongbing	Residential citrus trees within 2 miles of the international border	700 sites surveyed: 1060 plant samples, 12 insect samples	No action needed
Glassy-winged Sharpshooter	Retail nursery stock shipments	1,277 Inspections; No finds	No action needed
	Bulk citrus fruit	22 Rejections not due to finds 136 Inspections; No finds	Return to origin No action needed
Karnal Bunt/Wheat	10 Fields	No Finds	No action needed
Noxious Weeds/Ag & Urban Puncture Vine, C-rated	772.5 Total Miles	18 Total positive sites: 18 Positive sites	10 Sites mechanical removal
Pathogens of concern for seed export	Seed fields	471 Fields surveyed (by request only)	236 Target pests of concern (listed on certificate)
Red Imported Fire Ant	17 High risk sites	No finds	No action needed





# Sustainable Agriculture

## Pest Exclusion & Quarantine

This division is mandated to exclude exotic agricultural, urban, and environmental pests and to prevent movement of newly discovered pests within the state. This is accomplished through inspection of incoming agricultural products and enforcement of quarantines that prohibit or restrict the movement of plants, seeds and other items capable of harboring harmful pests. In addition, certificates of quarantine compliance and phytosanitary certificates are issued for commodities originating here, in order to assist growers in moving their products to other counties, states or countries.

### Plant Quarantine

#### Pest Exclusion Inspection ~ Shipments Entering Imperial County

Type of Inspection	Inspections	Pounds	Origin
Field & Vegetable Seed	943	16,738,128	Arizona, Idaho, Montana, Ohio, Washington
Plants	186	-	Arizona, Canada, Florida, Michigan, Mississippi, North Carolina, Oregon,
	115	-	Pennsylvania, Texas, Virginia California
Bees	3	-	Arizona, Montana

### Nursery & Seed Inspection

The goal of the nursery inspection program is to prevent the introduction and spread of agricultural pests through nursery stock and to protect agriculture and the consumer against economic losses resulting from the sale of inferior, defective, or pest-infested nursery stock. The seed law enforcement program protects seed consumers by regulation of the marketing of seed, inspection of seed grown or sold locally, verification of purity and germination, investigation of seed complaints, and prevention of the spread of noxious weed seeds through seed products. Also included in this program is the California Certified Seed Program in which superior varieties of seed are grown, processed and distributed under close supervision.

#### Nursery Inspections

Type of Inspection	Locations	Production Areas	Nursery Stock Type
Production Nursery	24	896	Ornamental trees and shrubs, palms, succulents, cut flowers, vegetable transplants
Retail Nursery	1	-	Fruit trees and shrubs, succulents and cacti, annual and cut flowers

#### California Crop Improvement Association Inspections & Certification

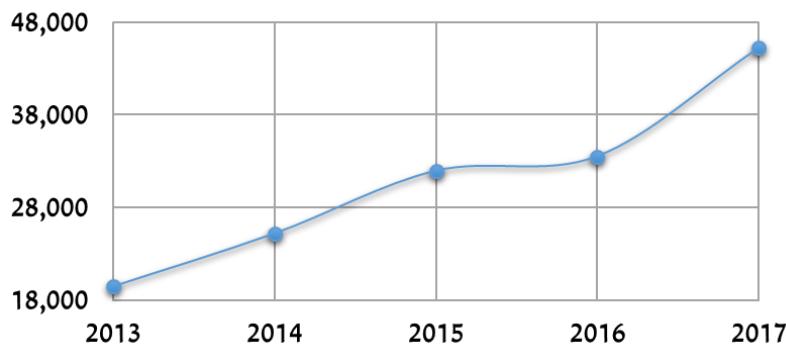
Type of Inspection	Inspections	Seed Transfer Certification	Inspections
Harvest Equipment	73	In-state	19
		Out of state	64

### Organic Grower Program

The Organic Program is responsible for enforcement of the federal Organic Foods Production Act of 1990 and the California Organic Products Act of 2003. These statutes protect consumers, producers, handlers, processors and retailers by monitoring and inspecting fresh commodities grown, labeled or sold as organic.

Year	Growers	Acres
2017	55	45,216
2016	48	33,505
2015	36	31,935
2014	28	25,156
2013	26	19,433

#### Organic Acreage Production 5 Year Comparison





**Carlos Ortiz**  
Agricultural Commissioner  
Sealer of Weights and Measures  
852 Broadway  
El Centro, CA 92243-2850