



COACHELLA VALLEY
WATER DISTRICT

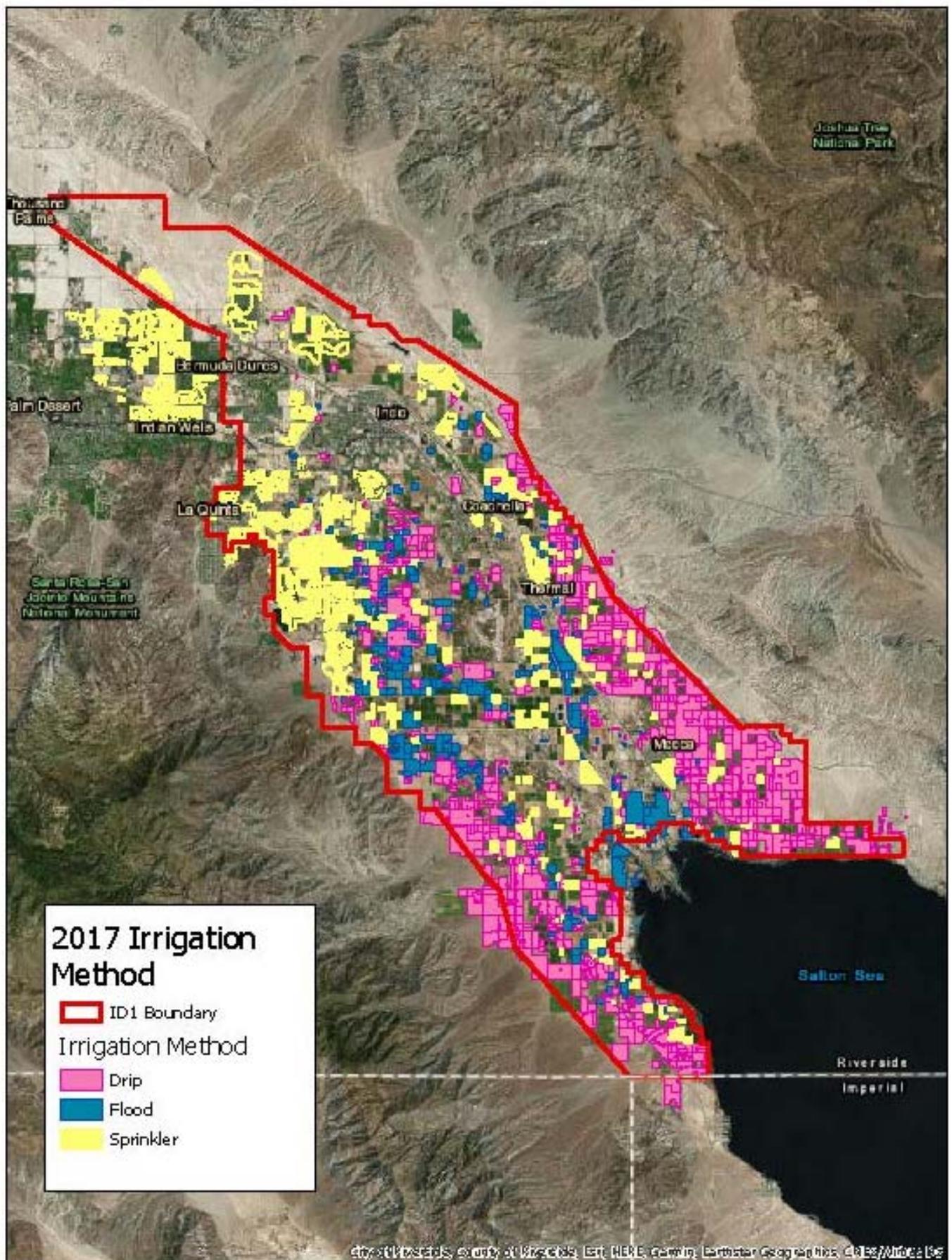


2017 Crop Report

Table of Contents

Irrigation Method Map.....	3
Introduction.....	4
Crop Values and Accumulated Values	5
Acreage and Accumulated Acreage.....	6
5-Year History of Crops by Value.....	7
Historical Crop Value Charts	8
5-Year History of Crops by Acreage.....	13
Historical Crop Acreage Chart.....	14
Top 10 Charts—Value & Acreage	19
Acreage Irrigated—Not Harvest	20
Crop Acreage by Irrigation Method Charts.....	20
Water Consumption by Source Chart.....	21
United States Bureau of Reclamation (USBR) Crop and Water Data.....	22
Definitions	26

2017 Irrigation Method Map



Introduction

Making every drop count...

Since 1918

The 2017 Coachella Valley Water District (CVWD) Crop Report summarizes the crop types, crop acreages, irrigation methods, and the estimated gross value of agricultural production within CVWD's Improvement District 1 (ID1). The CVWD Crop Report also summarizes, on a monthly basis, the metered Colorado River water delivered inside and outside ID1, including all water that is pumped through the Mid-Valley Pipeline and delivered to the Levy Groundwater Replenishment Facility. This report does not report any groundwater production within CVWD's boundary, inside or outside ID1.

The values in this report represent the gross value of products and do not reflect costs associated with production, marketing, or transportation. No attempt has been made to reflect the net income, profit, or loss to producers.

The acreages in this report represent all seasonal vegetables, permanent crops, non-bearing permanent crops, polo fields, golf courses, and wetlands located inside ID1.

The 2017 gross production is valued at, \$612,004,853, which represents a 2.79% decrease over the 2016 value of \$629,545,933. Gross farmed acreage (primary and secondary) is 66,046 acres, compared to last year's 66,617 acres. The decrease in cropped acreage is attributed to idle farmland in various crop rotations and the removal of some permanent crops such as grapes and citrus trees. The crop values represent only crops grown inside ID1.

CVWD provides canal water for seasonal vegetables and permanent crops including, bearing and non-bearing date trees, grapes, figs, mangoes, peaches, and citrus varieties. Other uses of Colorado River water include irrigation for polo fields, golf courses inside ID1, maintenance of wetland areas such as duck ponds, and replenishment of the ground water basin. Because the metered Colorado River Water may only account for a portion of the actual crop water requirement, and may be supplemented by groundwater pumping, this report is not to be used as a benchmark to accurately determine the crop amount of water used per acre.

This report also contains the annual US Bureau of Reclamation Crop and Water Data, Form 7-2045 as supplemental data to the CVWD Crop Report. The USBR Form 7-2045 is required of all Colorado River Contractors and is used to document crop acreage, production, price and Colorado River Water used inside and outside ID1 including water to the customers served off the Mid Valley pipeline. A further explanation of the source of data in the USBR form 7-2045 is located in the appendix this report.

In 2017, CVWD continued to utilize Geographic Information Systems (GIS) mapping software to identify crops and accurately measure crop acreage in the field. GIS has become an essential part of crop-reporting methods.

Sincerely,

Eric Morales

Eric Morales,
CVWD Crop Reporter

2017 Crop Values and Accumulated Values

Crop Description	Value *	%	Accumulated**		
			Value	%	
Grapes	\$133,659,918	21.8	\$ 133,659,918	21.8	T o p T e n
Bell Peppers	\$74,192,512	12.1	207,852,430	34.0	
Lemon-Lime	\$63,253,079	10.3	271,105,509	44.3	
Golf Course Turf	\$51,129,219	8.4	322,234,728	52.7	
Dates	\$50,136,000	8.2	372,370,728	60.8	
Carrots	\$30,405,510	5.0	402,776,238	65.8	
Lettuce	\$25,207,326	4.1	427,983,564	69.9	
Nursery-Trees	\$18,953,334	3.1	446,936,898	73.0	
Tomatoes	\$12,694,000	2.1	459,630,898	75.1	
Green Bean	\$11,240,428	1.8	470,871,326	76.9	
Cauliflower	\$10,470,250	1.7	481,341,576	78.6	
Orange-Tangerine	\$10,237,447	1.7	491,579,023	80.3	
Oriental Vegetables	\$10,046,355	1.6	501,625,378	82.0	
Artichoke	\$9,308,968	1.5	510,934,346	83.5	
Spinach	\$9,102,148	1.5	520,036,494	85.0	
Misc. Fish Farm	\$8,640,429	1.4	528,676,923	86.4	
Turf Grass	\$8,613,196	1.4	537,290,119	87.8	
Sweet Corn	\$8,118,531	1.3	545,408,650	89.1	
Celery	\$7,854,432	1.3	553,263,082	90.4	
Broccoli	\$5,039,194	0.8	558,302,276	91.2	
Okra	\$5,031,000	0.8	563,333,276	92.0	
Spice	\$4,687,257	0.8	568,020,533	92.8	
Eggplant	\$4,493,500	0.7	572,514,033	93.5	
Grapefruit	\$4,195,600	0.7	576,709,633	94.2	
Polo Fields	\$4,002,006	0.7	580,711,639	94.9	
Melon- Watermelon	\$3,858,624	0.6	584,570,263	95.5	
Squash	\$2,917,034	0.5	587,487,297	96.0	
Nursery- Plants	\$2,892,282	0.5	590,379,579	96.5	
Cabbage	\$2,819,053	0.5	593,198,632	96.9	
Onion-Green	\$2,756,160	0.5	595,954,792	97.4	
Kale	\$2,589,686	0.4	598,544,478	97.8	
Potatoes	\$2,393,502	0.4	600,937,980	98.2	
Fig	\$1,591,730	0.3	602,529,710	98.5	
Strawberries	\$1,148,796	0.2	603,678,506	98.6	
Sugar Beets	\$1,127,532	0.2	604,806,038	98.8	
Mangoes	\$1,052,160	0.2	605,858,198	99.0	
Radish	\$1,038,375	0.2	606,896,573	99.2	
Chili Peppers	\$1,016,327	0.2	607,912,900	99.3	
Bokchoy	\$876,528	0.1	608,789,428	99.5	
Hay- Alfalfa	\$870,030	0.1	609,659,458	99.6	
Olives	\$794,863	0.1	610,454,321	99.7	
Onions- Dry	\$656,640	0.1	611,110,961	99.9	
Hay-Sudan	\$230,016	0.0	611,340,977	99.9	
Pasture- Permanent	\$209,850	0.0	611,550,827	99.9	
Peaches	\$143,885	0.0	611,694,712	99.9	
Basil, Turnips, Duck Ponds	\$310,140	0.1	612,004,852	100.0	
	\$ 612,004,852	100.0			

* Total Dollars by Crop

** Running Total

2017 Acreage and Accumulated Acreage

Crop Description	Acres*	%	Accumulated**	
			Acres	%
Dates	8356	12.7	8,356	12.7
Grapes	7129	10.8	15,485	23.4
Golf Course Turf	6043	9.1	21,528	32.6
Carrots	5927	9.0	27,455	41.6
Bell Peppers	4506	6.8	31,961	48.4
Lemon-Lime	4111	6.2	36,072	54.6
Lettuce	3240	4.9	39,312	59.5
Oriental Vegetables	1639	2.5	40,951	62.0
Dates - N/B	1633	2.5	42,584	64.5
Pasture_Permanent	1399	2.1	43,983	66.6
Cauliflower	1351	2.0	45,334	68.6
Spice	1259	1.9	46,593	70.5
Sweet Corn	1249	1.9	47,842	72.4
Nursery-Trees	1173	1.8	49,015	74.2
Tomatoes	1154	1.7	50,169	76.0
Orange-Tangerine	1148	1.7	51,317	77.7
Turf Grass	1018	1.5	52,335	79.2
Green Bean	986	1.5	53,321	80.7
Grapes - N/B	856	1.3	54,177	82.0
Broccoli	813	1.2	54,990	83.3
Lemon-Lime - N/B	807	1.2	55,797	84.5
Spinach	798	1.2	56,595	85.7
Artichoke	793	1.2	57,388	86.9
Duck Ponds	775	1.2	58,163	88.1
Celery	683	1.0	58,846	89.1
Hay-Alfalfa	627	0.9	59,473	90.0
Okra	624	0.9	60,097	91.0
Potatoes	527	0.8	60,624	91.8
Grapefruit	506	0.8	61,130	92.6
Orange-Tangerine -N/B	474	0.7	61,604	93.3
Polo Fields	473	0.7	62,077	94.0
Squash	401	0.6	62,478	94.6
Melon - Watermelon	396	0.6	62,874	95.2
Cabbage	388	0.6	63,262	95.8
Kale	356	0.5	63,618	96.3
Misc. - Fish Farm	265	0.4	63,883	96.7
Onion - Green	264	0.4	64,147	97.1
Eggplant	215	0.3	64,362	97.5
Chili Peppers	200	0.3	64,562	97.8
Hay - Sudan	183	0.3	64,745	98.0
Nursery - Plants	179	0.3	64,924	98.3
Fig	177	0.3	65,101	98.6
Sugar Beets	155	0.2	65,256	98.8
Bokchoy	143	0.2	65,399	99.0
Radish	130	0.2	65,529	99.2
Mangoes	117	0.2	65,646	99.4
Olives	86	0.1	65,732	99.5
Pasture	73	0.1	65,805	99.6
Onion - Dry	72	0.1	65,877	99.7
Grapefruit - N/B	70	0.1	65,947	99.9
Basil	39	0.1	65,986	99.9
Strawberries, Turnips, Peaches	60	0.1	66,046	100.0
	66,046	100.0		

T
o
p

T
e
n

N/B Non-bearing
 * Total Acreage by Crop
 ** Running Total

5-Year History of Crops by Value

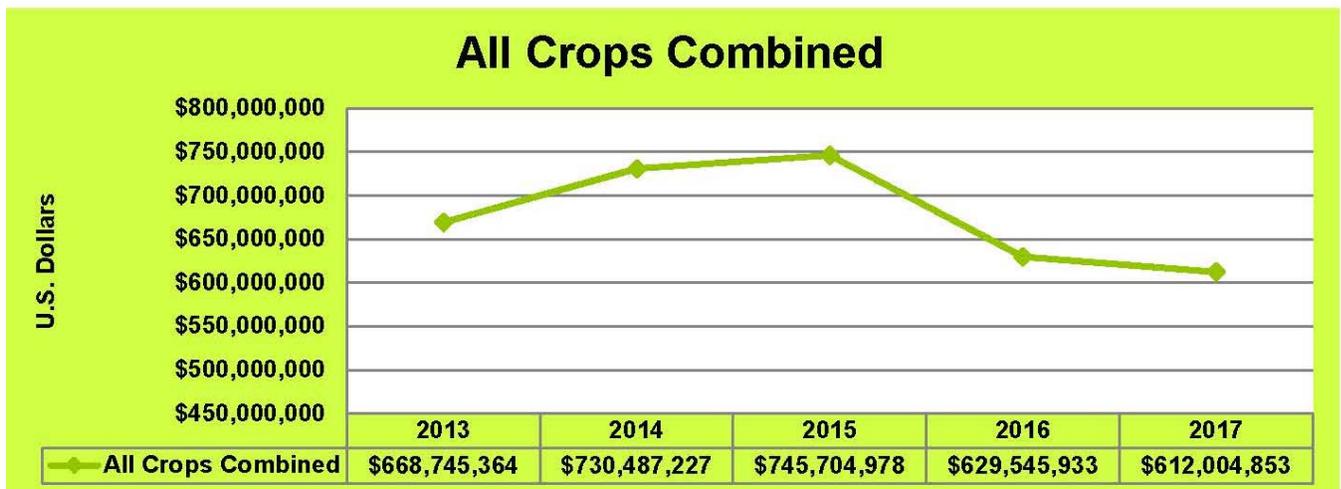
Crop Description	2013	2014	2015	2016	2017
Grapes	\$130,288,461	\$131,852,825	\$156,300,300	\$145,993,515	\$133,659,918
Bell Peppers	\$79,111,747	\$87,891,750	\$119,680,501	\$77,733,600	\$74,192,512
Lemon-Lime	\$56,516,317	\$93,824,406	\$104,388,255	\$83,531,814	\$63,253,079
Golf Course Turf	\$60,508,404	\$80,128,574	\$57,366,501	\$49,219,329	\$51,129,219
Dates	\$45,486,000	\$36,184,900	\$41,383,440	\$40,138,560	\$50,136,000
Carrots	\$11,750,390	\$21,756,480	\$27,203,400	\$28,632,144	\$30,405,510
Lettuce	\$41,500,003	\$28,023,774	\$28,344,615	\$25,092,600	\$25,207,326
Nursery-Trees	\$28,498,354	\$27,778,740	\$26,971,420	\$18,357,072	\$18,953,334
Tomatoes	\$4,483,945	\$3,860,800	\$3,028,451	\$3,798,320	\$12,694,000
Green Bean	\$9,483,177	\$11,583,000	\$11,249,005	\$7,101,250	\$11,240,428
Top Ten Crops	\$467,626,798	\$522,885,249	\$575,915,888	\$479,598,204	\$470,871,326
Other Crops	\$201,118,566	\$207,601,978	\$169,789,090	\$149,947,729	\$141,133,527
All Crops Combined*	\$668,745,364	\$730,487,227	\$745,704,978	\$629,545,933	\$612,004,853



Lettuce Field



Grapes



* Total Gross Production

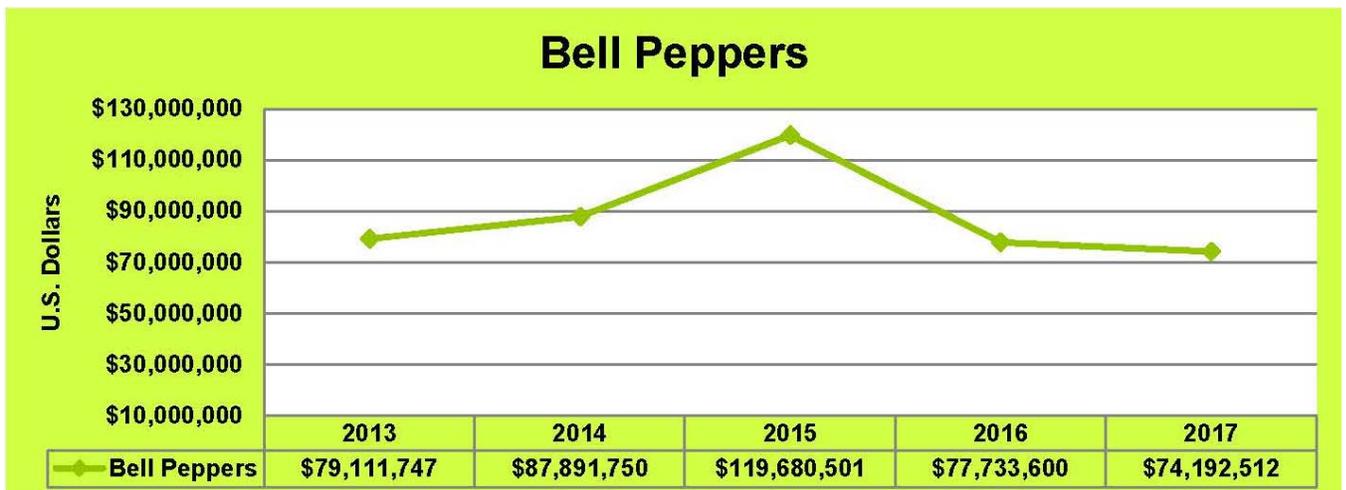
Historical Crop Value Charts



Grape Harvest



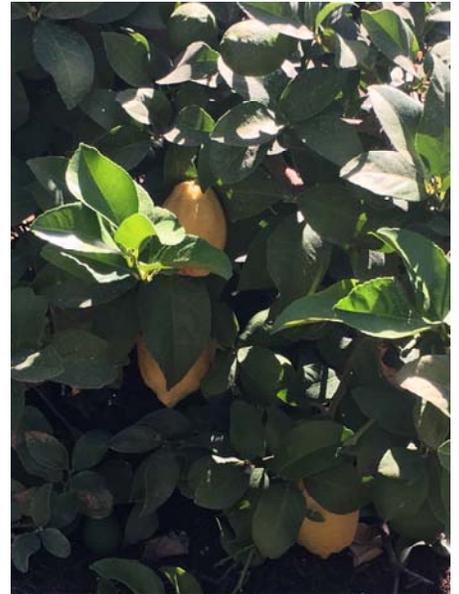
Bell Pepper Harvest



Golf Course Turf



Plantation Golf



Lemons

Lemon-Lime



Dates



Date Palm Shoots



Carrot Field

Carrots



Lettuce



Lettuce Harvest



Citrus Nursery

Nursery-Trees



Green Bean



Green Bean Plant



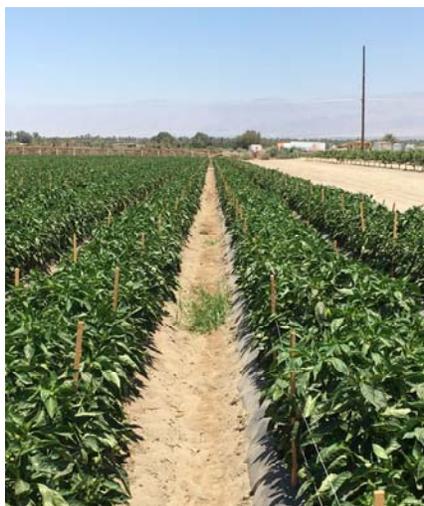
Tomatoes

Tomatoes



5-Year History of Crops by Acreage

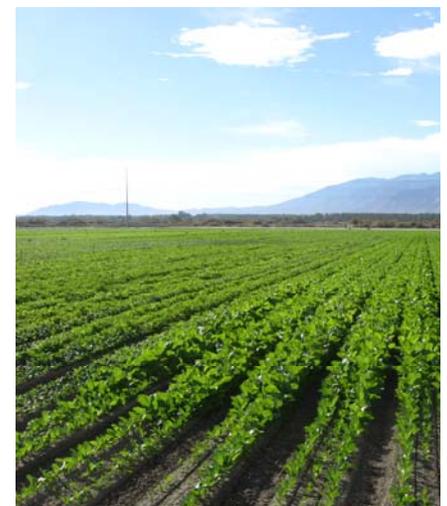
Crop Description	2013	2014	2015	2016	2017
Dates	7600	7765	8211	7964	8356
Grapes	7992	7802	7592	7379	7129
Golf Course Turf	5637	6007	6043	6043	6043
Carrots	3141	3930	4572	4777	5927
Bell Peppers	4558	4490	5044	5288	4506
Lemon-Lime	4014	3887	3902	3927	4111
Lettuce	3823	3234	2930	3217	3240
Oriental Vegetables	2306	2112	1838	1050	1639
Dates - N/B	1343	1602	1878	2170	1633
Pasture-Permanent	1586	1500	1450	1394	1399
Top Ten Crops	42000	42329	43460	43209	43983
Other Crops	23745	24102	23147	23408	22063
All Crops Combined*	65745	66431	66607	66617	66046



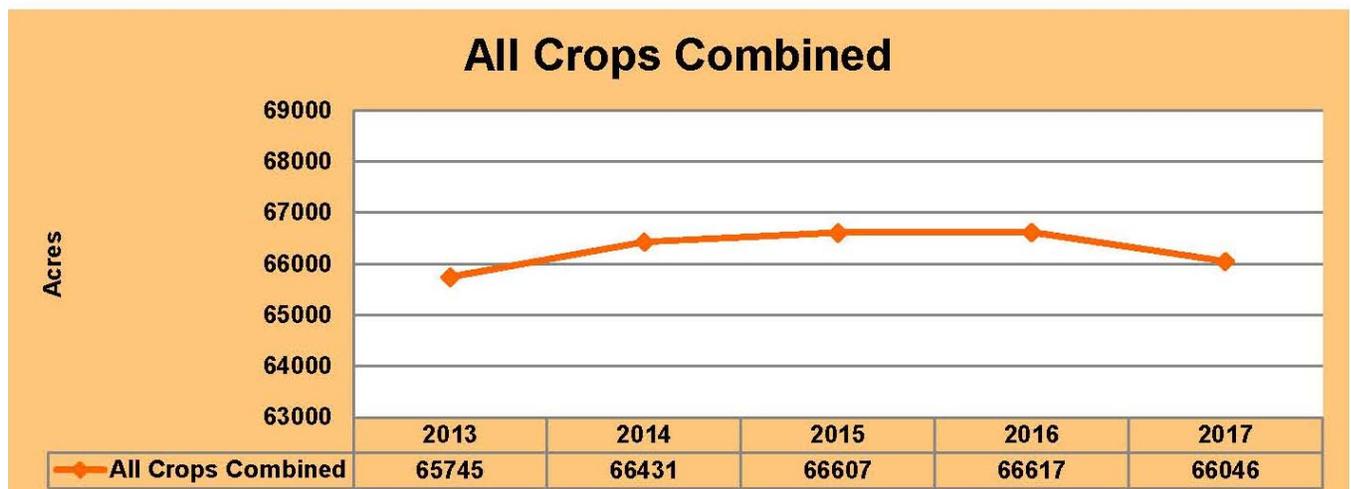
Bell Pepper Field



Grapes

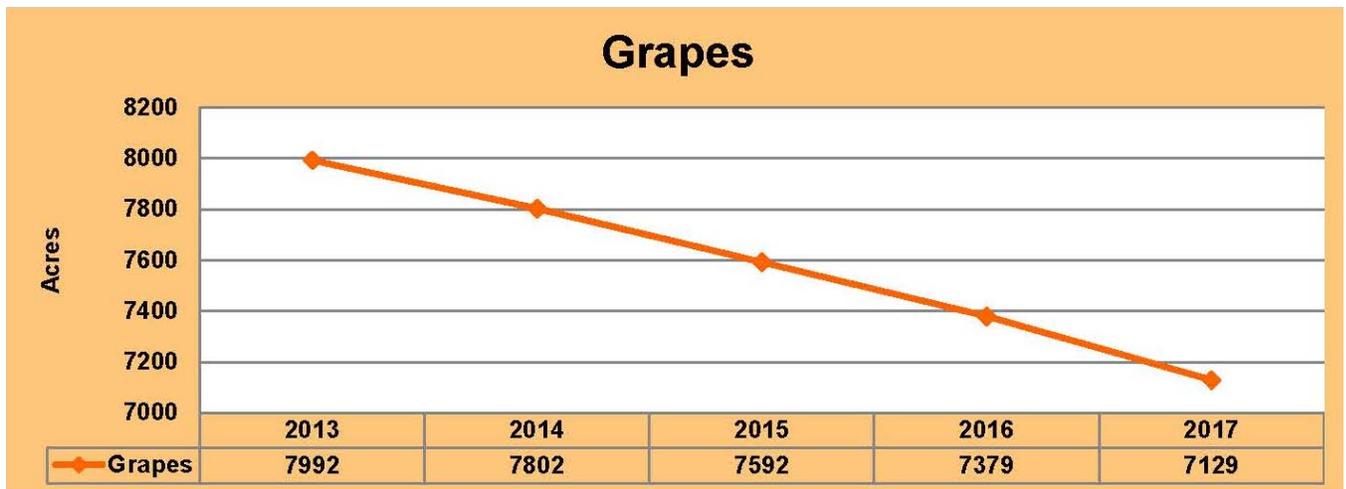


Bok Choy



* Total Acreage Combined (Primary & Secondary Acres)

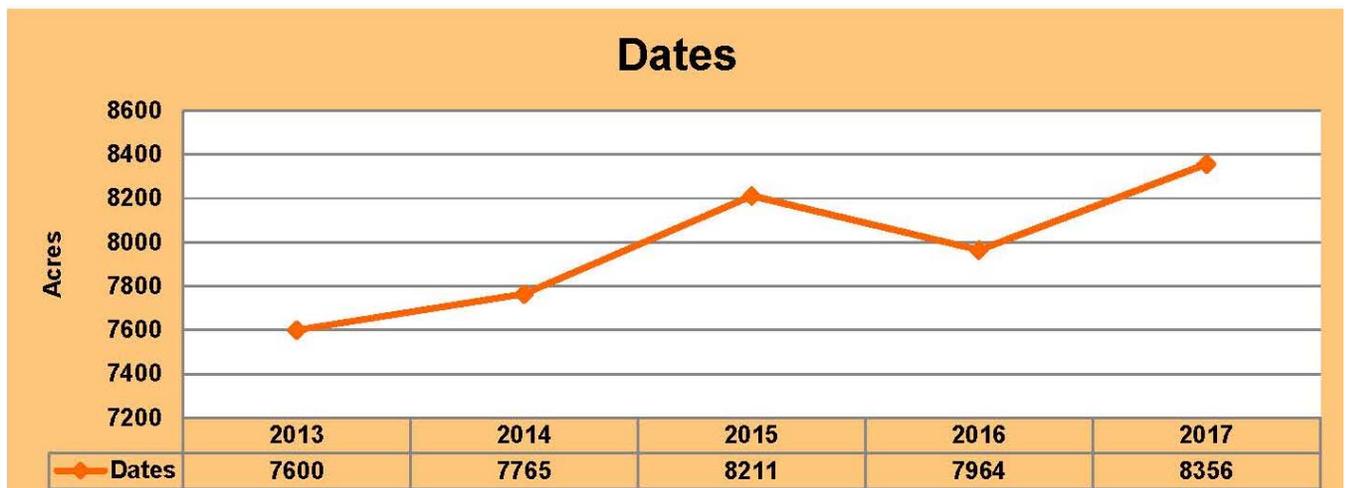
Historical Crop Acreage Chart



Grapes



Date Palm Tree



Golf Course Turf



Carrot Bunch

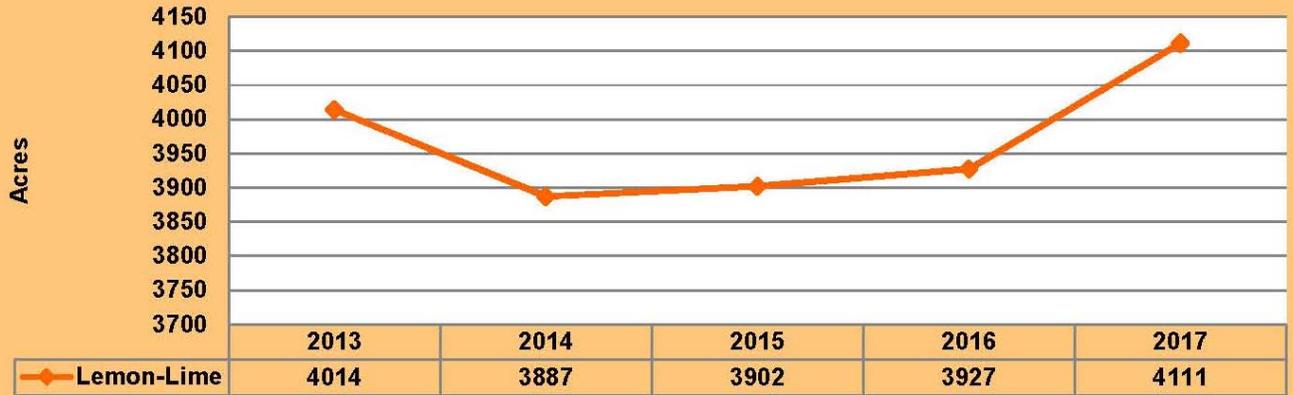


Toscana Golf Course

Carrots



Lemon-Lime



Lemon Grove



Bell Pepper Plants

Bell Peppers



Lettuce



Lettuce Being Packaged



Bok Choy Harvest

Oriental Vegetables



Dates - N/B

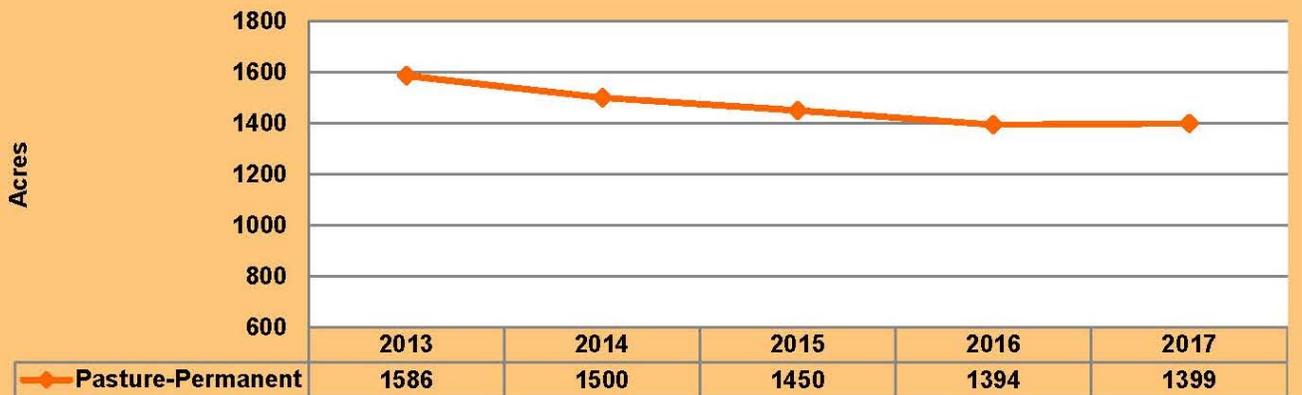


Field of Date Palm Shoots

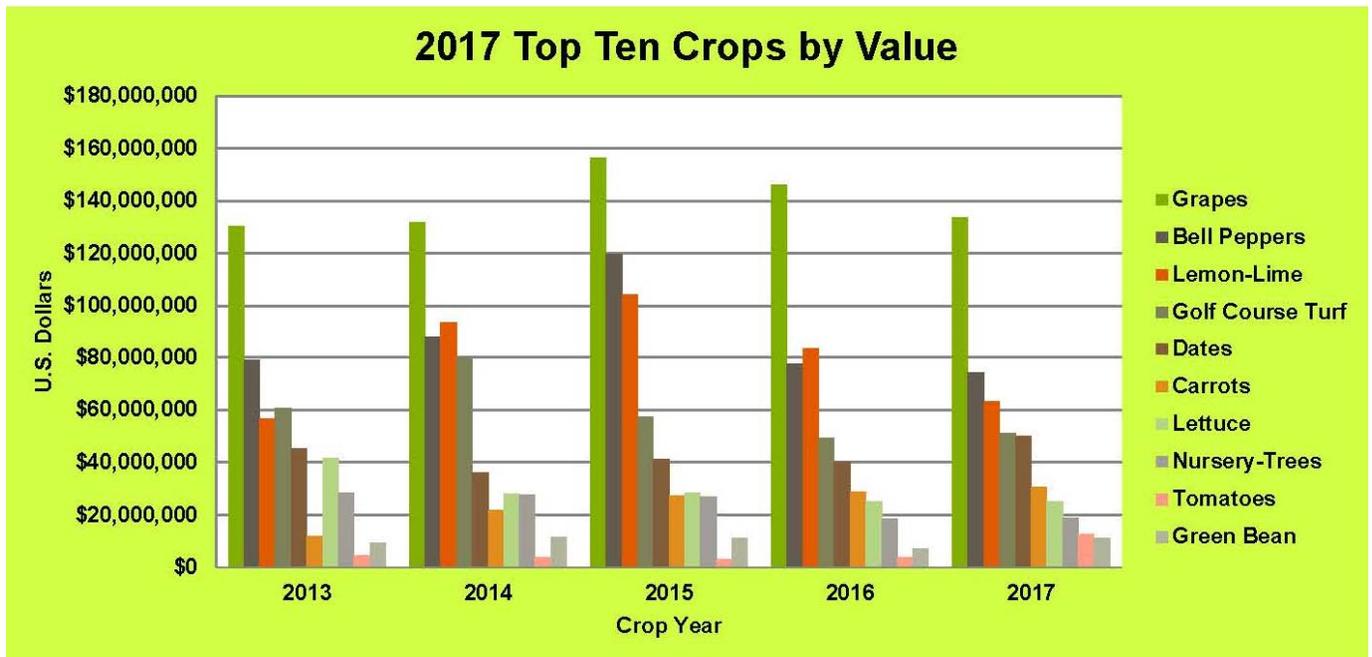
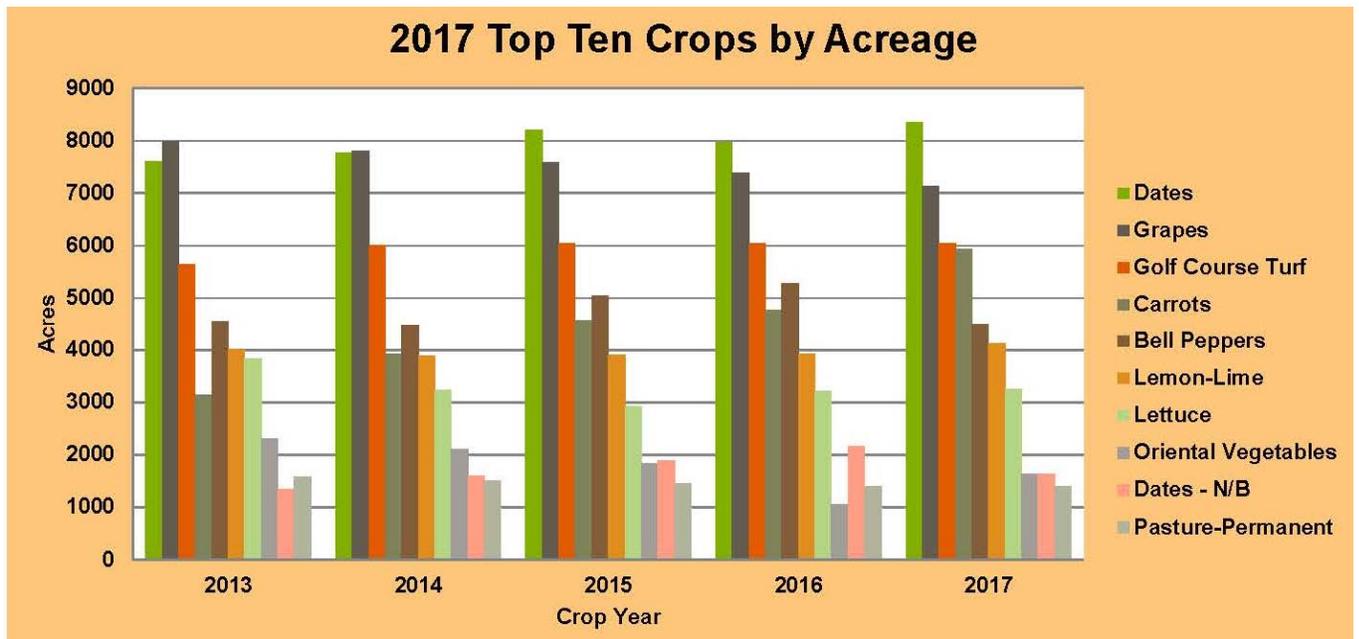


Pasture

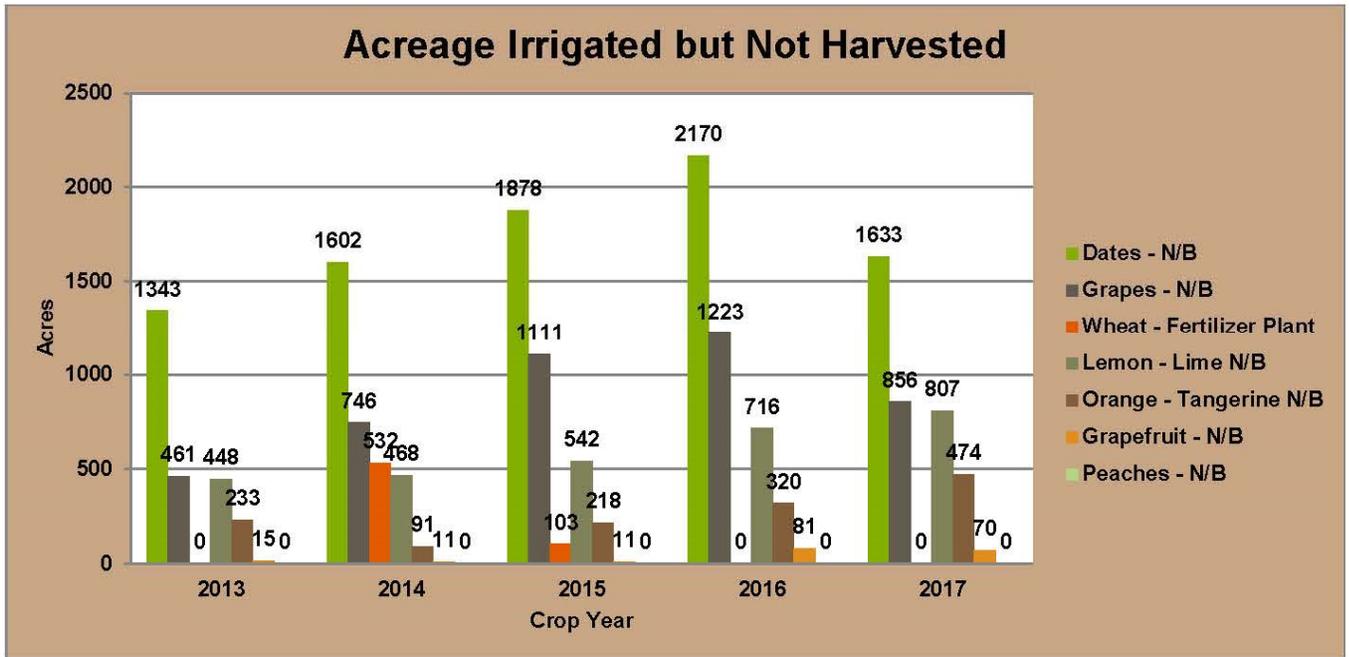
Pasture-Permanent



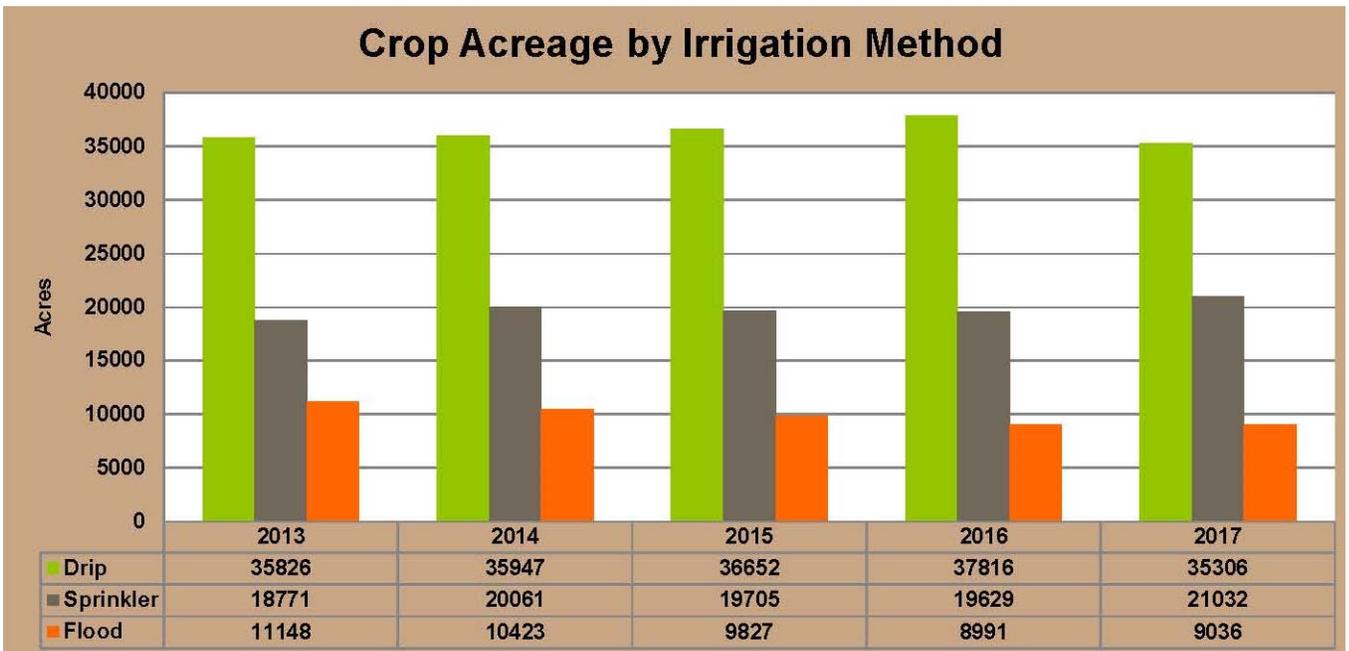
Top 10 Charts - Value & Acreage



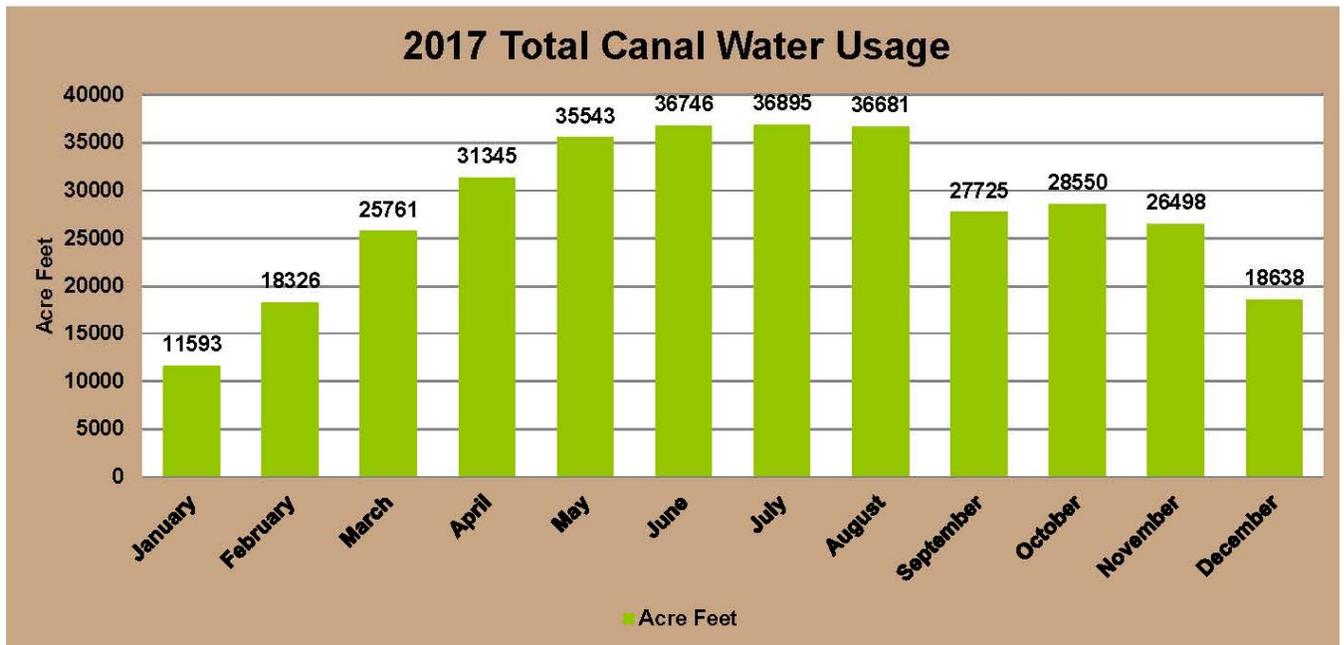
Acres Irrigated - Not Harvested



Crop Acreage by Irrigation Method Charts



Water Consumption by Source Chart



Rancho LQ Golf Course

Explanation of Data found in Report

The 2017 United States Bureau of Reclamation (USBR) Crop and Water Data, form 7-2045, represent the crop types, crop acreages, estimated crop yield, irrigation method and irrigation water distributed to customers within the Coachella Valley Water District (CVWD) service area and Improvement District 1 (ID1). This report represents only imported Colorado River Water and not groundwater production within CVWD's service area.

Sections I and II of form 7-2045 include the total district acres (inside ID1), irrigable acres, commercial acres, non-commercial acres, multiple-cropped acres, acres irrigated, acres irrigated but not harvested, and idle/fallow acreage. The irrigable acres are calculated using GIS mapping technology and field verified three times per year by CVWD staff.

Section III of form 7-2045 includes the crop type, crop acreage, and yields per acre and total yields per ton. CVWD staff calculate the crop type and crop acreage with a GIS mapping software and through a field verification process. The crop yield and value data is obtained from the County of Riverside Agricultural Commissioner's Office.

Section IV of form 7-2045 monthly water distribution, data includes all Colorado River Water Supply, Operational Spills, Transportation Losses, Non-Agricultural Deliveries (M&I, Wildlife, Misc.), and Water Delivered to Farms.

The monthly water delivered section includes all Colorado River Water that is conveyed through the Coachella Canal and sold to CVWD customers. The accounting of this water includes water exported outside of ID1 for Golf Course Use and Groundwater Replenishment. The water used outside of ID1 data is located in the Non-Agricultural Deliveries (M&I, Wildlife, Misc.) columns of form 7-2045. The described uses of this water can be further broken down by:

1. M&I → Construction Water and East Valley Groundwater Replenishment
2. Wildlife → Water to Dos Palmas Reserve and Wildlife Drinkers.
3. Misc → Golf Courses including the Mid Valley Pipeline, Hunting Clubs, Polo Fields, and Fish Farms.

All published data on groundwater production collected by CVWD is in the Engineer's Report on Water Supply and Replenishment Assessment 2018-2019. You can reference this report in its entirety on the CVWD website, www.cvwd.org.



COACHELLA VALLEY WATER DISTRICT
Service Department - Zanjero Section
CROP AND WATER DATA
 Year **2017**

*Making every drop count...
Since 1918*

SECTION I - DISTRICT INFORMATION

a. Region LC | b. IDCON 304560 | c. Cong. Dist. 36th | d. Project: Boulder Canyon Project | e. Division: Coachella Division
 f. Unit: NA | g. Water District: Coachella Valley Water District | h. State: CA | i. Counties: Riverside
 j. Total District Acres: 137,416 | **k. Irrigable Acres: 77,101** | l. Contact Person: Eric Morales | m. Telephone: (760)398-2661 Ext. 2629

SECTION II - DISTRICT LANDS IN AN IRRIGATION ROTATION

a. Type of Service (mark one) Full Supplemental Temporary | b. Commercial Acres 54,851 | c. Non-commercial 2,002 | d. Multi-cropped Acres 7,355
 e. Acres irrigated by: Sprinkler: 21,032 | Drip 35,306 | Flood: 9,036 | f. Acres irrigated but not harvested 3,840 | g. Acres not irrigated: Dry Cropped | Fallow 9,899 | Idle 6,509
 h. Permanent Urbanization & Raw Land Acres: 60,987

SECTION III - CROP PRODUCTION

a. CROPS	b. ACRES	c. UNIT	d. YIELD		a. CROPS	b. ACRES	c. UNIT	d. YIELD		
			PER ACRE	TOTAL				PER ACRE	TOTAL	
CEREALS										
50 Barley (malt)	0	Bu	0.00	0	54 Rice	0	Cwt	0	0	
51 Barley (feed)	0	Bu	0.00	0	56 Sorghums (sorgo, kaffir, milo, ect.)	0	Cwt	0	0	
52 Corn	0	Bu	0.00	0	57 Wheat	0	Bu	0.00	0	
53 Oats	0	Bu	0.00	0	58 Other Cereals (specify)	0	Bu	0	0	
FORAGE										
61 Alfalfa hay	627	Ton	6.8	4,263.6	Silage (sorgo, kaffir, milo, etc.)	0	Ton	0	0	
62 Other hay (Sudan)	183	Ton	5.6	1,024.8	Other forage (specify)	0	Ton	0	0	
63 Irrigated pasture	1,399	Ton	1.00	1,399.0						
MISCELLANEOUS FIELD CROPS										
81 Beans, dry and edible	0	Cwt	0	0	86 Hops	0	Lb	0	0	
82 Cotton: Lint (Upland)	0	Lb	0	0	87 Mints	0	Lb	0	0	
83 Cotton: Seed (Upland)		Ton	0	0	90 Soybeans	0	Bu	0	0	
84 Cotton: Lint (American-Pima)	0	Lb	0	0	89 Sugar beets	155	Ton	168	26,040	
85 Cotton: Seed (American-Pima)		Ton	0	0	91 Other field crops (specify) polo, turf, golf course	7,534	Ton	105	791,070	
VEGETABLES										
101 Asparagus	0	Cwt	0.00	0	117 Onions, dry	72	Ton*	12.00	864	
102 Beans, (processing)	0	Ton	0	0	118 Onions, green	264	Ton*	6.30	1,663	
103 Beans, (fresh market)	986	Ton*	1.86	1,836	119 Peas, green (processing)	0	Cwt	0	0	
104 Broccoli	813	Ton*	1.37	1,111	120 Peas, green (fresh market)	0	Cwt	0.00	0	
105 Cabbage	388	Ton*	4.75	1,843	121 Peppers (all kinds)	4,706	Ton*	5.59	26,316	
106 Carrots	5,927	Ton*	684.00	4,054,068	122 Potatoes, early	527	Ton*	18.50	9,750	
107 Cauliflower	1,351	Ton*	1.78	2,408	124 Squash	401	Ton*	168.00	67,368	
108 Celery	683	Ton*	18.00	12,294	100 Sweet Potatoes	0	Cwt	0	0	
109 Corn, sweet (processing)	0	Cwt	0	0	125 Tomatoes (canning)	0	Ton	0	0	
110 Corn, sweet (fresh market)	1,249	Ton*	5.06	6,323	126 Tomatoes (fresh market)	1154	Ton*	4.00	4,616	
111 Cucumbers	0	Cwt	0.00	0	127 Other vegetables (specify) artichoke	793	Ton*	1.55	1,231	
112 Greens, (b.choy spinach, O.veg.etc.)	2,936	Ton*	3.23	9,492	egg plant	215	Ton*	4.40	946	
113 Lettuce	3,240	Ton*	4.08	13,234	okra	624	Ton*	1.29	805	
					radishes	130	Ton*	2.63	341	
					spices	1,298	Ton*	2.04	2,653	

* All lbs. and cwt are calculated by tons											
CROP PRODUCTION CONTINUED											
a. CROPS	b. ACRES	c. UNIT	d. YIELD		a. CROPS	b. ACRES	c. UNIT	d. YIELD			
			PER ACRE	TOTAL				PER ACRE	TOTAL		
NURSERY											
137	Total nursery (show yield in dollars)	1,352		16158.0	21,845,616	138	Fish farm	265	Ton	6.01	1593
						139	Duck ponds	775	Lb	9.65	7479
141	Alfalfa	0	Lb	0	0	146	Onion	0	Cwt	0	0
142	Clover	0	Lb	0	0	147	Pea	0	Cwt	0	0
143	Corn	0	Lb	0	0	148	Potato	0	Cwt	0	0
144	Grass	0	Lb	0	0	149	Sugar beet	0	Cwt	0	0
145	Lettuce	0	Lb	0	0	150	Other seed. (specify)	0	Cwt	0	0
FRUITS											
161	Apples	0	Lb	0	0	165	Grapefruit	506	Ton*	4.91	2,486
162	Apricots	0	Ton	0	0	115	Honey Ball Honeydew, ect.	0	Cwt	0.00	0
158	Avocados	0	Ton	0	0	166	Lemons and Limes	4,111	Ton*	4.66	19,152
163	Berries	0	Lb	0	0	171	Olives	86	Ton	4.66	401
114	Cantaloupe	0	Cwt	0	0	167	Oranges and Tangerines	1,148	Ton	8.56	9,827
164	Cherries	0	Ton	0	0	172	Peaches	16	Ton*	114.62	1,834
168	Dates	8,356	Ton	2.40	20,054	173	Pears	0	Ton	0	0
159	Figs	177	Ton	0.06	11	174	Prunes and Plums	0	Ton	0	0
169	Grape, table	7,129	Ton	0.07	469	160	Strawberries	27	Ton*	2.64	71
176	Grape, raisin	0	Ton	0	0	116	Watermelon	396	Ton*	560.00	221,760
177	Grape, wine	0	Ton	0	0	175	Other fruits (specify) Mangoes	117	Ton*	0.52	61
170	Grape, other	0	Ton	0	0						
NUTS											
181	Almonds	0	Lb	0	0	183	Walnuts	0	Lb	0	0
182	Pecans	0	Lb	0	0	184	Other nuts (specify)	0	Lb	0	0
180	Pistachios	0	Lb	0	0						

SECTION IV - MONTHLY WATER DISTRIBUTION								
a. TYPE OF IRRIGATION SERVICE								
		<input checked="" type="checkbox"/> Full	<input type="checkbox"/> Supplemental	<input type="checkbox"/> Temporary				
b. MONTH	c. WATER SUPPLY	d. OPERATIONAL SPILLS	e. TRANSPORTATION LOSSES	f. NON-AGRICULTURAL DELIVERIES			g. DELIVERED TO FARMS	
				(1) M&I	(2) Wildlife	(3) Misc.		
1. PROJECT WATER (Acre-Feet)								
201	January	11,593.0	605.3	988.0	3,375.0	169.7	141.1	6,314.5
202	February	18,326.0	477.7	1,079.0	2,958.4	179.2	354.0	13,277.6
203	March	25,761.0	535.4	83.0	3,183.2	146.1	1,096.5	20,717.6
204	April	31,345.0	524.0	38.0	2,864.0	227.9	1,650.9	26,040.7
205	May	35,543.0	489.8	40.0	3,173.7	352.4	2,046.2	29,440.8
206	June	36,746.0	507.9	-178.0	3,140.4	368.7	2,234.7	30,672.7
207	July	36,895.0	458.7	-197.0	3,333.1	262.1	2,442.7	30,595.5
208	August	36,681.0	502.8	-667.0	2,996.4	437.5	2,351.4	31,060.7
209	September	27,725.0	503.3	-2,446.0	3,161.3	374.8	1,575.0	24,556.5
210	October	28,550.0	528.1	887.0	3,256.0	395.7	1,936.5	21,547.1
211	November	26,498.0	519.8	1,350.0	3,257.0	56.8	952.0	20,362.4
212	December	18,638.0	396.6	307.0	565.6	253.8	312.4	16,803.6
213	TOTAL PROJECT WATER	334,301.0	6,049.4	1,284.0	35,264.1	3,224.7	17,093.4	271,389.7
214	M&I Population Served				0.0			
2. NONPROJECT WATER (Acre-Feet)								
216	Annual Data	0.0	0.0	0.0	0.0	0.0	0.0	0.0
217	TOTAL (lines 213 and 216)	334,301.0	6,049.4	1,284.0	35,264.1	3,224.7	17,093.4	271,389.7

USBR Form 7-2045 Legend

Section I District Information and Section II District Lands in Irrigation Rotation	
	<p><u>Acreage Formula</u> k. Irrigable Acres = b. Commercial Acres + c. Non-commercial acres + f. Acres irrigated but not harvested + g. Acres not Irrigated Fallow and Idle</p>
Section IV Monthly Water Distribution	
	c. Water Supply = Supply from AAC to Coachella Canal minus IID customers usage
	d. Operational Spills = Measured Regulatory Water
	e. Transportation Losses = Total Water Supply – (Water Sold + Regulatory Water)
	f. Non Agricultural Deliveries (Class 2 type of User) <ul style="list-style-type: none"> (1) M&I = Construction Water and East Valley Groundwater Replenishment (2) Wildlife = Water to Dos Palmas Preserve and the Wildlife Drinkers (3) Misc. = Golf Courses, hunting clubs, polo fields, and fish farms
	g. Delivered to farms = Class 1 type of user commercial agricultural activities.

Definitions

The following definitions of terms are provided to assist you in understanding the categories listed in the Form 7-2045.

Total District Acres	This acreage includes all acres within the district boundaries, including, farmsteads, roads, ditches, drains, dry cropped, idle, fallow, and grazed. This also includes all irrigable land for service and irrigable land not for service.
Irrigable Acres	The arable land under a specific plan for which water supply is or can be made available and which is provided with or planned to be provided with irrigation, drainage, flood protection, and other facilities, as necessary for sustained irrigation.
Full Irrigation Service	Applies to irrigable land now receiving, or to receive, its sole and generally adequate irrigation water supply through works or facilities constructed by or to be constructed by the Bureau of Reclamation. This term also applies to previously irrigated land in non-Federal projects where a substantial portion of the facilities has been or is to be constructed, rehabilitated, or replaced by Reclamation. Full irrigation service may be applicable to several types of land, such as regular projects, Warren Act, special contract, leased or water rental lands.
Commercial Acres	All irrigated acres that include harvested cropland and pasture in the irrigation rotation for land classes 1 through 5.
Non-Commercial Acres	Urban, Suburban, and Industrial acres. Nonagricultural irrigable land in residential, commercial, and industrial uses which include town areas, residential developments, suburban residences, industrial developments, etc.
Multi-Cropped Acres	Acres on which a second or successive crop is grown on the same land during the calendar year.
Acres Irrigated By	Total acres irrigated by a specific irrigation method including sprinkler, drip, and flood.
Acres Irrigated But Not Harvested	Crops planted but not harvested due to crop failure, adverse market conditions, etc. Also includes young non-bearing fruit trees and vines.

Section IV – Monthly Water Distribution

Type of Service	Full service when all lands are provided all irrigation water by Reclamation project, Supplemental water is when irrigation water comes from Reclamation project and non-project source, Temporary water service is when irrigation water is provided under a temporary arrangement from Reclamation.
Project Water	All water deliveries are in Acre-feet per month. Total Project water is the amount of water diverted by irrigation district for irrigation purposes.
Water Supply	Measured water diversion of project water delivered to the district.
Operational Spills	Amount of project water lost through operational spill, measured regulatory water.
Transportation Losses	The project water lost through seepage, evaporation, and evapotranspiration from plants on the canal bank.
M&I Deliveries	Project water delivered for Municipal and Industrial use such as water which is treated for potable use.
Wildlife Deliveries	Project water delivered for wildlife refuges or mitigation area.
Miscellaneous Deliveries	Project water delivered to urban and suburban lands, which includes rural residences with less than \$1,000 in gross agricultural sales. Non-potable water customers in Class 2 type of user (golf course, polo fields, duck club, lakes, etc.)
Delivered to Farms	Total water delivered to agricultural customers in Class 1 type of user who use canal water for commercial

Land classes and subclasses of the USBR system

Six land classes based on production economics are normally recognized. Brief descriptions are as follows:

Class 1 - Arable Lands that are highly suitable for irrigated farming, being capable of sustained and relatively high yield of climatically adapted crops at reasonable cost. These lands have a relatively high payment capacity.

Class 2 - Arable Lands that have a moderate suitability for irrigated farming. These are either adaptable to a narrower range of crops, more expensive to develop for irrigation, or less productive than Class 1. Potentially these lands have intermediate payment capacity.

Class 3 - Arable Lands that have a marginal suitability for irrigated farming. They are less suitable than Class 2 lands and usually have either a serious single deficiency or a combination of several moderate deficiencies in soil, topography, or drainage properties. Although greater risk may be involved in farming these lands than those of Class 1 and 2, under proper management they are expected to have adequate payment capacity.

Class 4 - Special use Lands Lands which in the USA are only suited to certain special uses (e.g. rice, pasture, or fruit) are classified 1, 2 or 3 (to reflect relative payment capacity) along with the appropriate letter designating the I and use (crop).

Class 5 - Non-arable This land is temporarily considered as non-arable because of some specific deficiency such as excessive salinity, questionable drainage, flooding, or other deficiency which requires further studies to resolve. The deficiency or deficiencies are of such a nature and magnitude that special agronomic, economic, or engineering studies are required to resolve the costs or effect on the land. Class 5 designation is tentative and should be changed to either Class 6 or an arable classification during formulation of the recommended plan of development.

Class 6 - Non-arable Land that is non-arable under the existing or project economic conditions associated with the proposed project development. Generally, Class 6 comprises steep, rough, broken, rocky, or badly eroded lands, or lands with inadequate drainage, or other deficiencies. In some instances lands considered to be Class 6 in one area may be arable in another area because of different economic conditions. In addition to various physical-type deficiencies that result in a non-arable classification, lands initially classified as arable (potentially irrigable) on the basis of payment capacity (farm financial analysis) may be found non-arable if subsequent economic analysis (benefit analysis) indicates that benefits from such lands are less than their costs in a plan of development. Thus, the lower arable class(es) of lands would be considered non-arable and, of course, non-irrigable for economic reasons.