

COACHELLA VALLEY
WATER DISTRICT

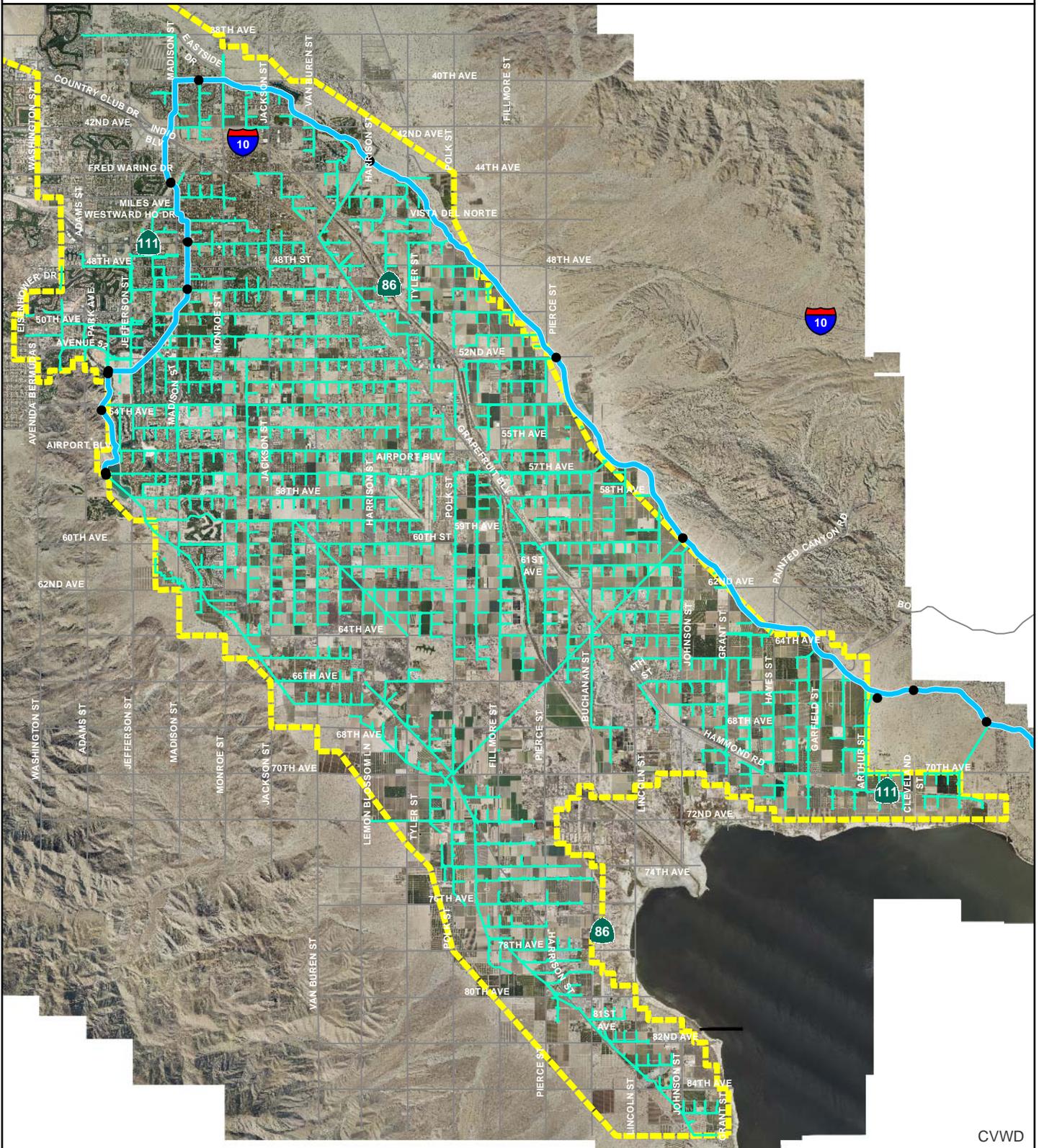


2016 Crop Report

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Irrigation Distribution System



CVWD

Coachella Valley Water District



P.O. Box 1058
 Coachella, CA 92236
www.cvwd.org
 Ph. (760) 398-2661
 Fx. (760) 568-1789

Location

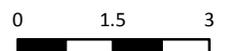


Legend

- Cana_MilePost_Markers
- Cana_Centerline
- Irrigation_Lateral
- Irrigation_ID1



Miles



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File Name: Irrigation_System_8.5x11.mxd File Location: N:\GIS\Projects\Irrigation System\Mxd\
 Date Updated: Tuesday, April 22, 2014 Updated By: JL0493 Department: CVWD Information Services - GIS Division

Introduction

Making every drop count...

Since 1918

The 2016 Crop Report summarizes the estimated acreage and gross value of agricultural production within the Coachella Valley Water District (CVWD) Boundaries. This report fulfills the Crop Report requirements of CVWD and The United States Bureau of Reclamation (USBR).

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 2016 gross production is valued at, \$629,545,933, which represents a 15.6% decrease over the 2015 value of \$745,714,920. Gross farmed acreage (primary and secondary) is 66,617, compared to last year's total of 66,607.

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 canal water include irrigation for polo fields, golf courses, maintenance of wetland areas such as duck ponds, and replenishment of the ground water basin.

In 2016, CVWD utilized Geographic Information Systems (GIS) 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
Crop Reporter

2016 Crop Values and Accumulated Values

Crop Description	Value*	%	Accumulated**		
			Value	%	
Grapes	\$145,993,515	23.2	\$ 145,993,515	23.2	T o p T e n
Lemon-Lime	\$83,531,814	13.3	229,525,329	36.5	
Bell Peppers	\$77,733,600	12.4	307,258,929	48.8	
Golf Course	\$49,219,329	7.8	356,478,258	56.6	
Dates	\$40,138,560	6.4	396,616,818	63.0	
Carrots	\$28,632,144	4.5	425,248,962	67.6	
Lettuce	\$25,092,600	4.0	450,341,562	71.6	
Nursery-Trees	\$18,357,072	2.9	468,698,634	74.5	
Orange-Tangerine	\$12,863,725	2.0	481,562,359	76.5	
Sweet Corn	\$11,180,783	1.8	492,743,142	78.3	
Cauliflower	\$10,981,750	1.7	503,724,892	80.0	
Artichoke	\$9,320,169	1.5	513,045,061	81.5	
Celery	\$8,073,405	1.3	521,118,466	82.8	
Turf Grass	\$7,476,972	1.2	528,595,438	84.0	
Oriental Vegetables	\$7,230,300	1.1	535,825,738	85.1	
Green Bean	\$7,101,250	1.1	542,926,988	86.3	
Spinach	\$6,944,364	1.1	549,871,352	87.4	
Eggplant	\$6,562,600	1.0	556,433,952	88.4	
Melon-Watermelon	\$6,518,736	1.0	562,952,688	89.4	
Strawberries	\$6,254,556	1.0	569,207,244	90.4	
Broccoli	\$5,700,143	0.9	574,907,387	91.3	
Okra	\$5,258,840	0.8	580,166,227	92.2	
Spice	\$4,553,423	0.7	584,719,650	92.9	
Misc. - Fish Farm	\$4,436,840	0.7	589,156,490	93.6	
Grapefruit	\$4,226,079	0.7	593,382,569	94.3	
Potatoes	\$4,215,750	0.7	597,598,319	95.0	
Polo Fields	\$3,852,514	0.6	601,450,833	95.6	
Tomatoes	\$3,798,320	0.6	605,249,153	96.2	
Nursery-Plants	\$2,759,370	0.4	608,008,523	96.6	
Onion-Green	\$2,641,320	0.4	610,649,843	97.0	
Bokchoy	\$2,430,758	0.4	613,080,601	97.4	
Onion-Dry	\$2,289,120	0.4	615,369,721	97.8	
Squash	\$1,836,007	0.3	617,205,728	98.1	
Cabbage	\$1,633,345	0.3	618,839,073	98.3	
Fig	\$1,591,730	0.3	620,430,803	98.6	
Hay-Alfalfa	\$1,294,939	0.2	621,725,742	98.8	
Basil	\$1,256,393	0.2	622,982,135	99.0	
Chili Peppers	\$1,229,598	0.2	624,211,733	99.2	
Sugar Beets	\$1,173,811	0.2	625,385,544	99.4	
Mangoes	\$1,052,160	0.2	626,437,704	99.5	
Radish	\$806,738	0.1	627,244,442	99.7	
Olives	\$794,863	0.1	628,039,305	99.8	
Hay-Sudan	\$500,859	0.1	628,540,164	99.9	
Kale	\$469,524	0.1	629,009,688	99.9	
Pasture-Permanent	\$200,039	0.0	629,209,727	100.0	
Parsley	\$156,049	0.0	629,365,776	100.0	
***	\$ 629,365,776	100.0			

*Total Dollars by Crop

** Running Total

*** Total Value for Crops Listed

2016 Acreage and Accumulated Acreage

Crop Description	Acres *	%	Accumulated **		T o p T e n
			Acres	%	
Dates	7964	12.0	7,964	12.0	
Grapes	7379	11.1	15,343	23.1	
Golf Course	6043	9.1	21,386	32.1	
Bell Peppers	5288	7.9	26,674	40.1	
Carrots	4777	7.2	31,451	47.3	
Lemon-Lime	3927	5.9	35,378	53.2	
Lettuce	3217	4.8	38,595	58.0	
Dates-N/B	2170	3.3	40,765	61.2	
Sweet Corn	1883	2.8	42,648	64.1	
Cauliflower	1417	2.1	44,065	66.2	
Pasture-Permanent	1394	2.1	45,459	68.3	
Orange-Tangerine	1368	2.1	46,827	70.4	
Nursery-Trees	1264	1.9	48,091	72.2	
Grapes-N/B	1223	1.8	49,314	74.1	
Spice	1138	1.7	50,452	75.8	
Oriental Vegetables	1050	1.6	51,502	77.4	
Broccoli	969	1.5	52,471	78.8	
Turf Grass	918	1.4	53,389	80.2	
Potatoes	876	1.3	54,265	81.5	
Hay-Alfalfa	874	1.3	55,139	82.8	
Artichoke	850	1.3	55,989	84.1	
Duckponds	775	1.2	56,764	85.3	
Green Bean	760	1.1	57,524	86.4	
Celery	757	1.1	58,281	87.6	
Lemon-Lime-N/B	716	1.1	58,997	88.6	
Melon- Watermelon	669	1.0	59,666	89.6	
Okra	643	1.0	60,309	90.6	
Grapefruit	511	0.8	60,820	91.4	
Spinach	504	0.8	61,324	92.1	
Polo Fields	473	0.7	61,797	92.8	
Hay-Sudan	427	0.6	62,224	93.5	
Bokchoy	353	0.5	62,577	94.0	
Cabbage	327	0.5	62,904	94.5	
Tomatoes	320	0.5	63,224	95.0	
Orange-Tangerine N/B	320	0.5	63,544	95.5	
Eggplant	314	0.5	63,858	95.9	
Basil	314	0.5	64,172	96.4	
Chili Peppers	265	0.4	64,437	96.8	
Onion-Green	253	0.4	64,690	97.2	
Onion-Dry	251	0.4	64,941	97.6	
Sugar Beets	235	0.4	65,176	97.9	
Nursery-Plants	190	0.3	65,366	98.2	
Fig	177	0.3	65,543	98.5	
Misc-Fish Farm	165	0.2	65,708	98.7	
Squash	150	0.2	65,858	98.9	
Strawberries	147	0.2	66,005	99.2	
Mangoes	117	0.2	66,122	99.3	
Radish	101	0.2	66,223	99.5	
Kale	94	0.1	66,317	99.6	
Olives	86	0.1	66,403	99.8	
Grapefruit-N/B	81	0.1	66,484	99.9	
Pasture	78	0.1	66,562	100.0	
***	66,562	100.0			

N/B = Non-bearing

*Total Dollars by Crop

** Running Total

*** Total Acreage for Crops Listed

5-Year History of Crops by Value

Crop Description	2012	2013	2014	2015	2016
Grapes	\$117,321,351	\$130,288,461	\$131,852,825	\$156,300,300	\$145,993,515
Lemon-Lime	\$53,920,131	\$56,516,317	\$93,824,406	\$104,388,255	\$83,531,814
Bell Peppers	\$72,197,988	\$79,111,747	\$87,891,750	\$119,680,501	\$77,733,600
Golf Course	\$47,796,210	\$60,508,404	\$80,128,574	\$57,366,501	\$49,219,329
Dates	\$40,052,000	\$45,486,000	\$36,184,900	\$41,383,440	\$40,138,560
Carrots	\$16,841,370	\$11,750,390	\$21,756,480	\$27,203,400	\$28,632,144
Lettuce	\$24,836,167	\$41,500,003	\$28,023,774	\$28,344,615	\$25,092,600
Nursery-Trees	\$31,235,939	\$28,498,354	\$27,778,740	\$26,971,420	\$18,357,072
Orange-Tangerine	\$14,492,105	\$13,899,240	\$16,205,904	\$14,082,984	\$12,863,725
Sweet Corn	\$10,474,017	\$9,000,123	\$6,043,200	\$7,827,160	\$11,180,783
Top Ten Crops	\$429,167,279	\$476,559,039	\$529,690,553	\$583,548,576	\$492,743,142
Other Crops	\$147,589,041	\$165,928,804	\$177,489,677	\$155,465,696	\$136,802,791
* All Crops Combined	\$576,276,970	\$668,745,364	\$730,487,227	\$745,704,978	\$629,545,933



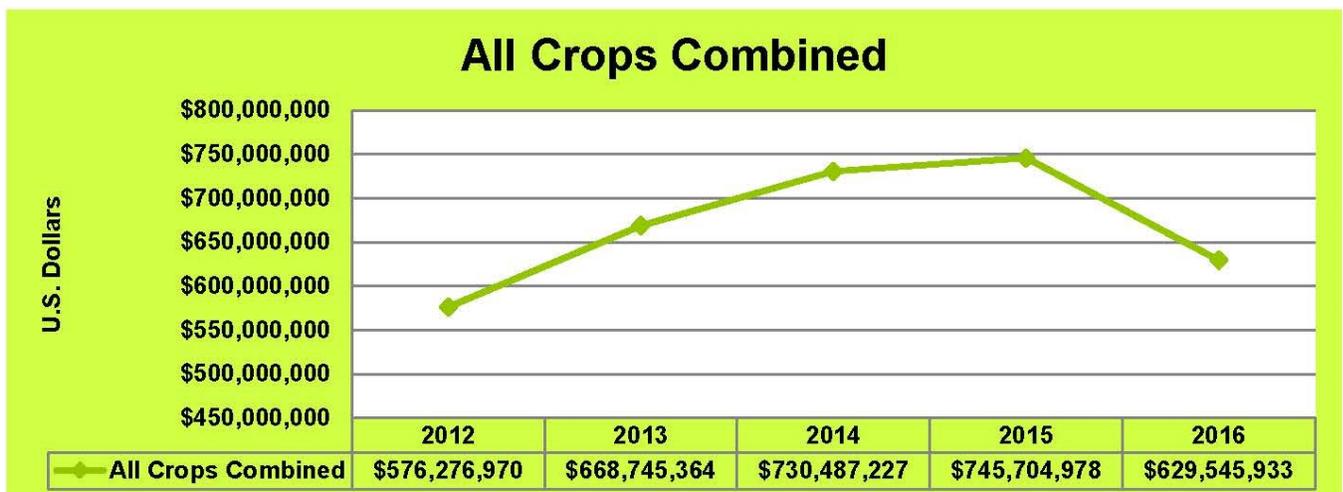
Lettuce Harvest



Grapes



Multi-Crops



* Total Gross Production

Historical Crop Value Charts



Grapes Ready for Harvest



Young Lemon Grove



Bell Peppers



Bell Pepper



Rancho LQ Golf Course

Golf Course



Dates



Dates



Carrot Harvest

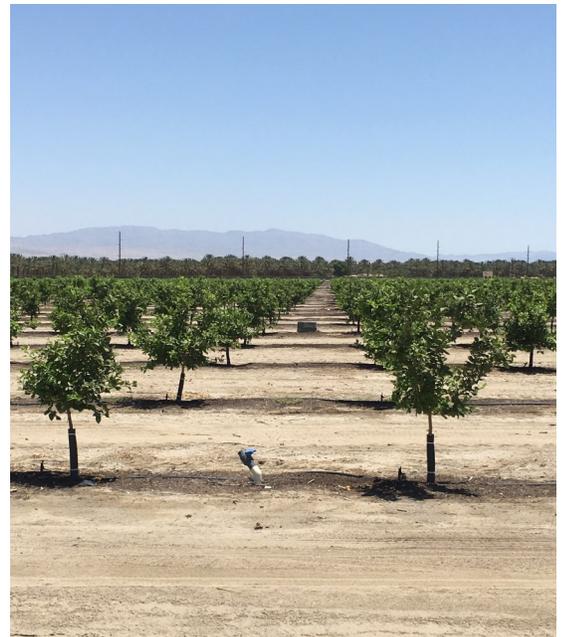
Carrots



Lettuce

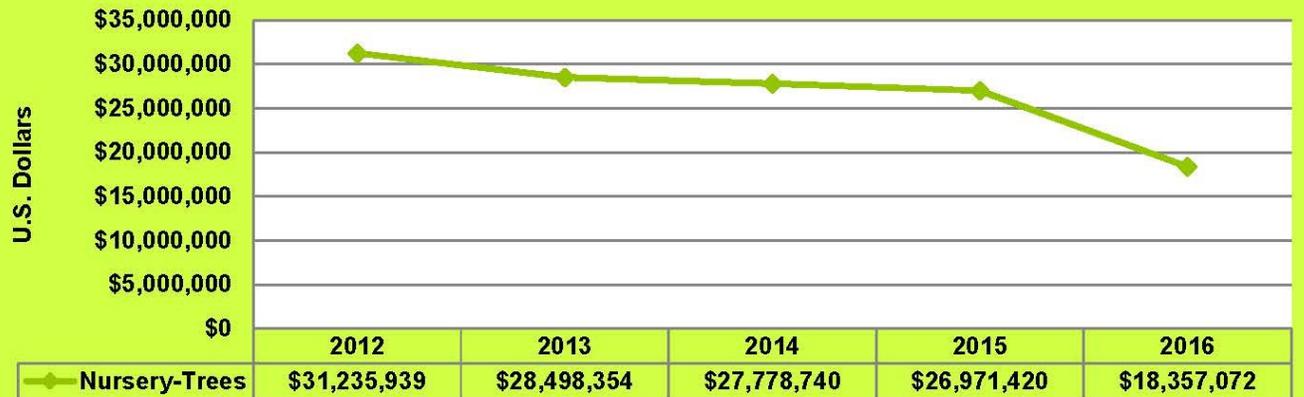


Lettuce Field



Citrus Nursery

Nursery-Trees



Orange-Tangerine



Oranges



Sweet Corn

Sweet Corn



5-Year History of Crops by Acreage

Crop Description	2012	2013	2014	2015	2016
Dates	7600	7600	7765	8211	7964
Grapes	7497	7992	7802	7592	7379
Golf Course	5775	5637	6007	6043	6043
Bell Peppers	4899	4558	4490	5044	5288
Carrots	2587	3141	3930	4572	4777
Lemon-Lime	3983	4014	3887	3902	3927
Lettuce	3999	3823	3234	2930	3217
Dates- N/B	1065	1343	1602	1878	2170
Sweet Corn	2795	1995	1259	1279	1883
Cauliflower	1195	1125	1008	1134	1417
Top Ten Crops	41395	41228	40984	42585	44065
Other Crops	23774	23176	23327	22063	22552
* All Crops Combined	65581	65745	66431	65729	66617



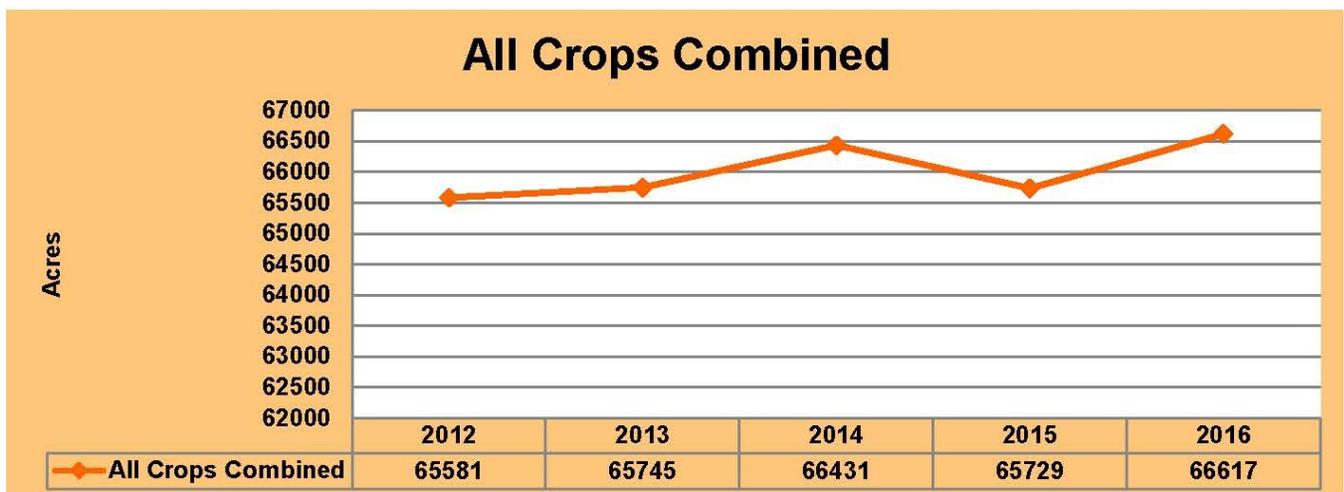
Lemon Tree



Toscano Golf Course

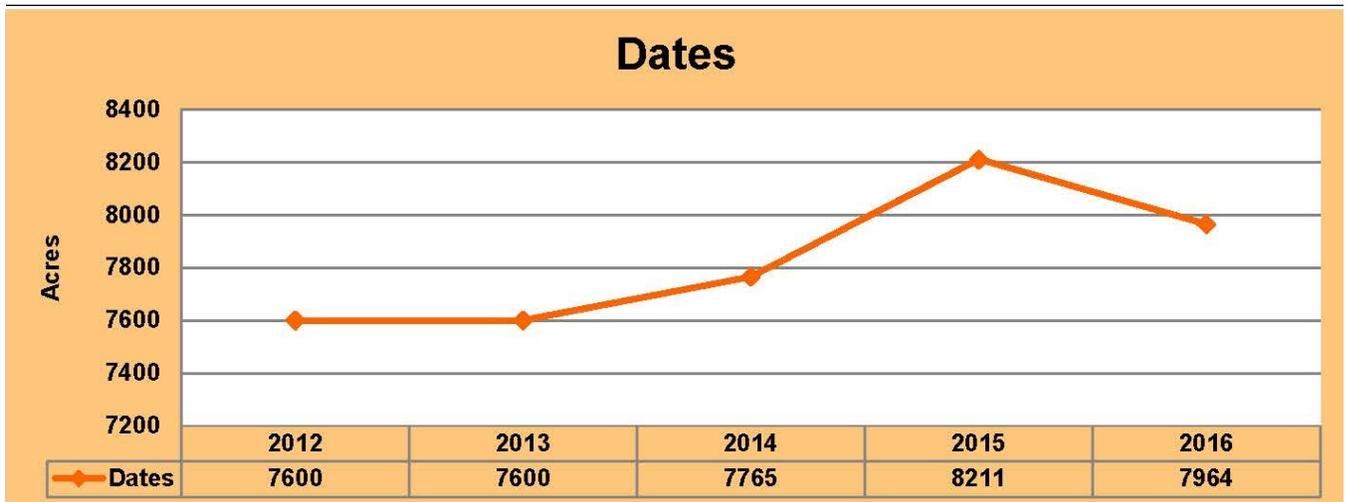


Bell Pepper Transplant



* Total Acreage Combined (Primary & Secondary Acres)

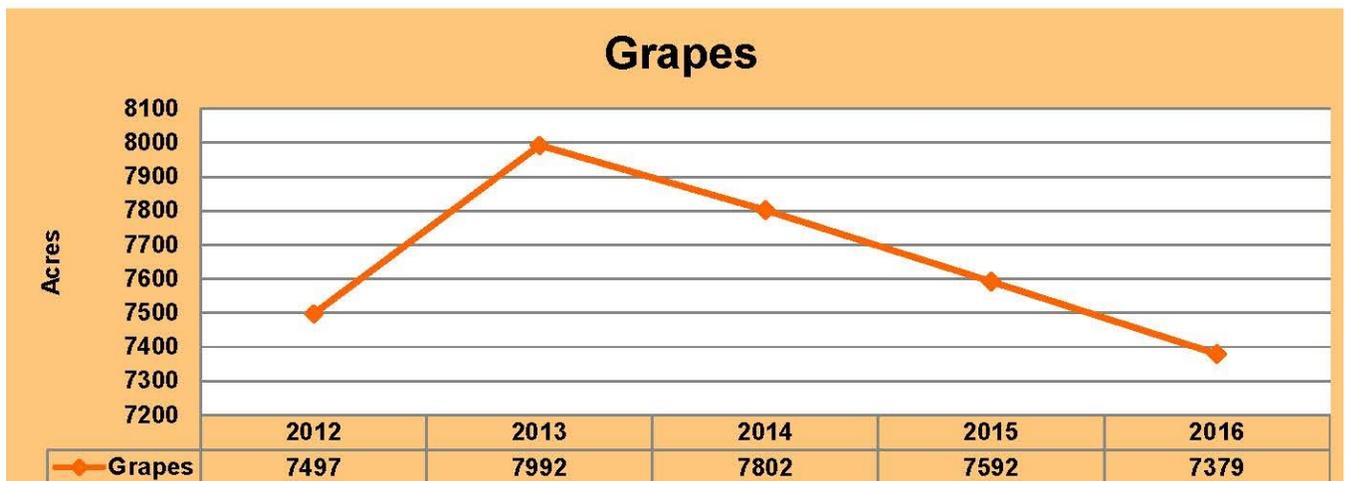
Historical Crop Acreage Chart



Date Grove



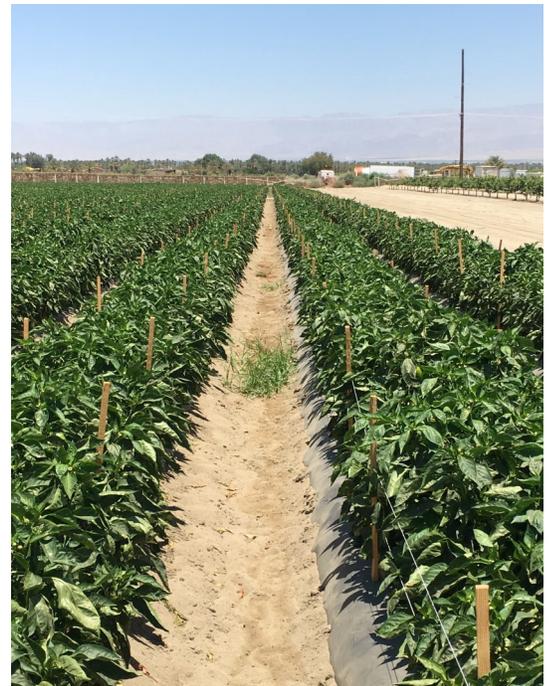
Grapes



Golf Course



Plantation Golf

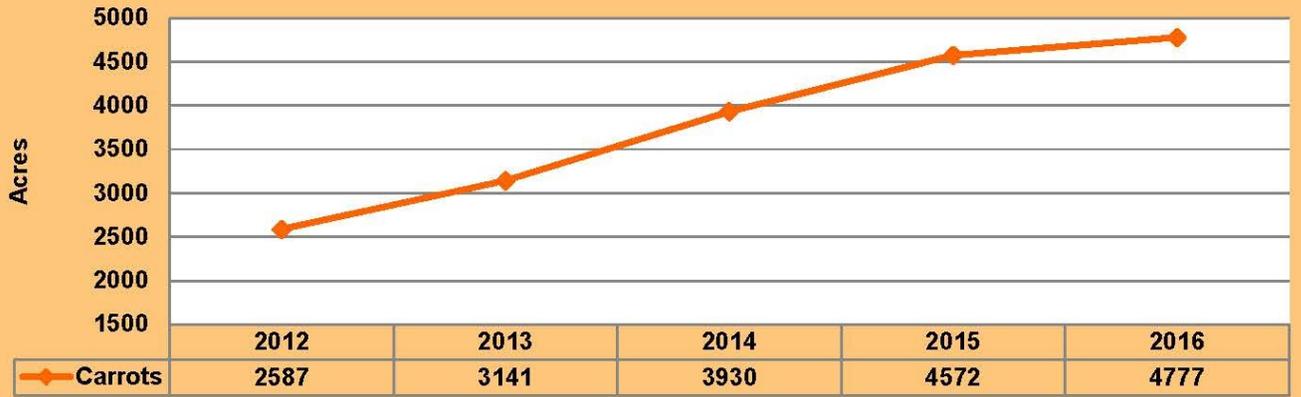


Bell Pepper Field

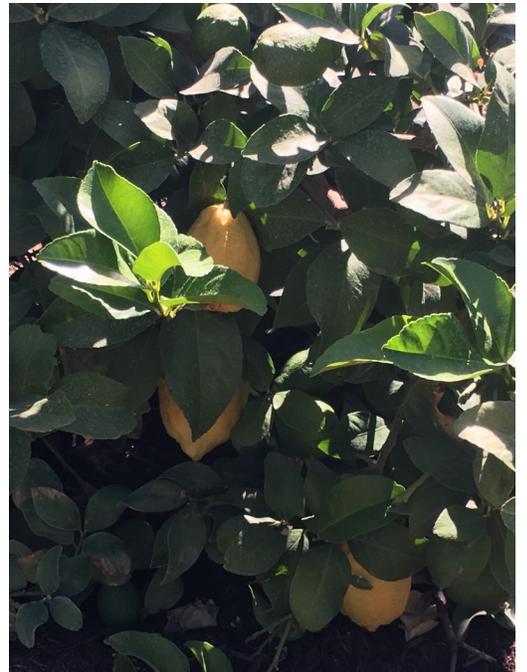
Bell Peppers



Carrots



Carrots



Lemons

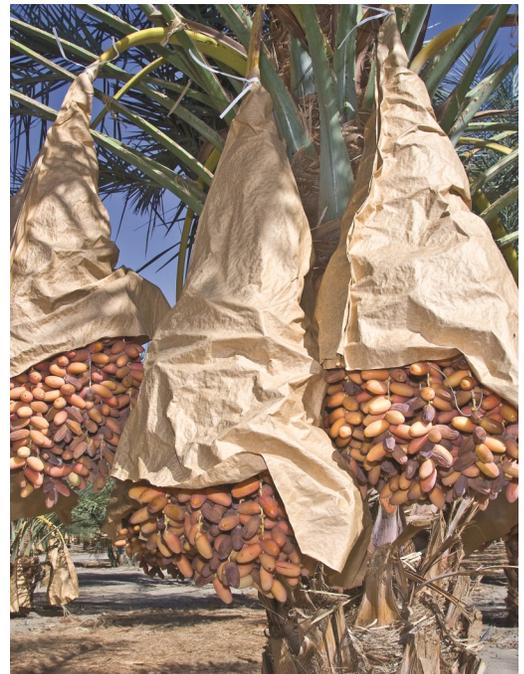
Lemon-Lime



Lettuce



Lettuce Leaf



Date Palms

Dates- N/B



Sweet Corn



Sweet Corn Field

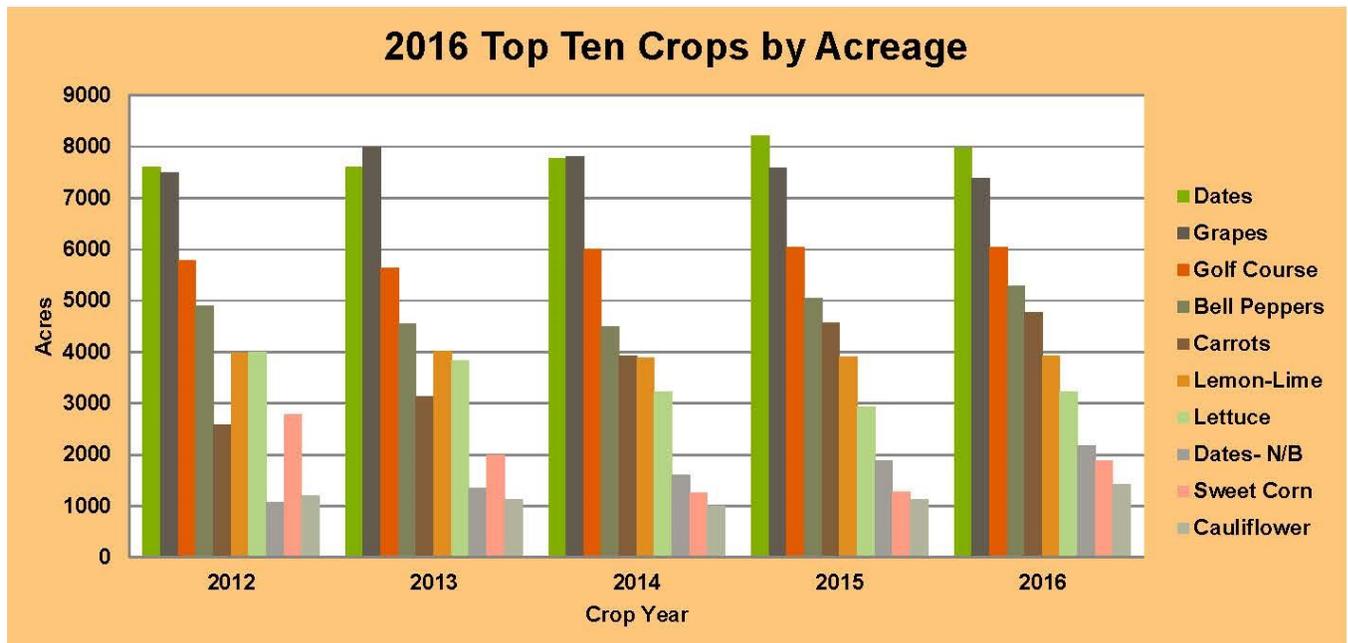
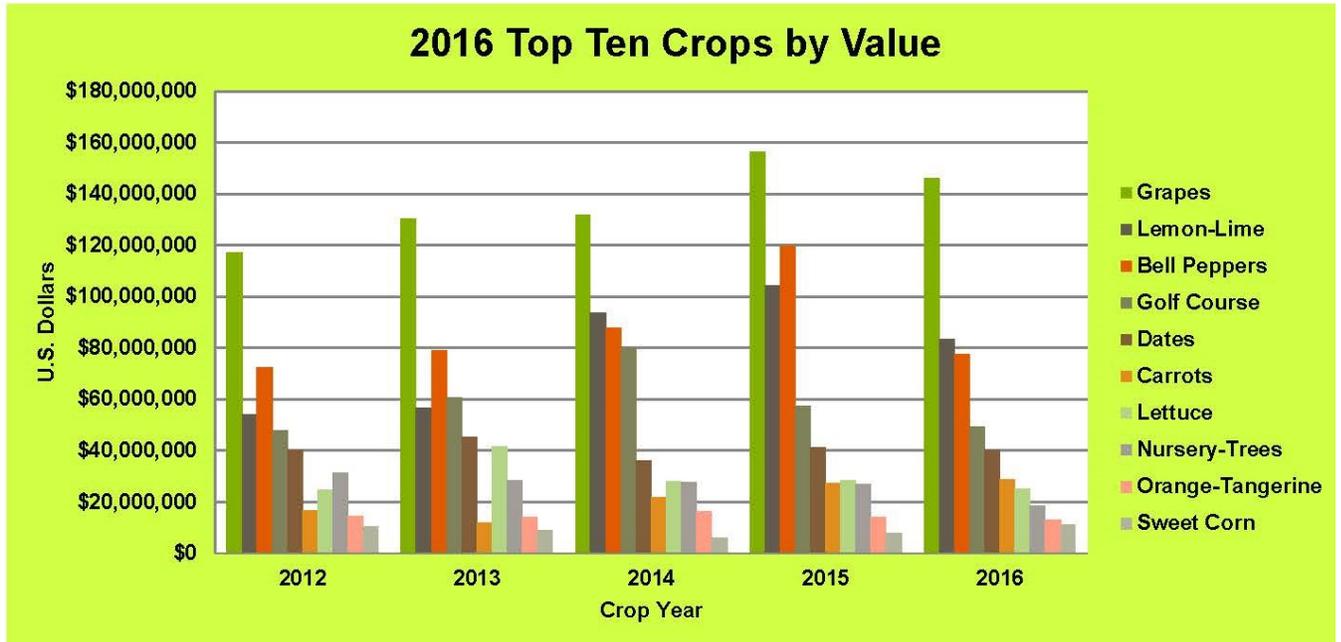


Cauliflower

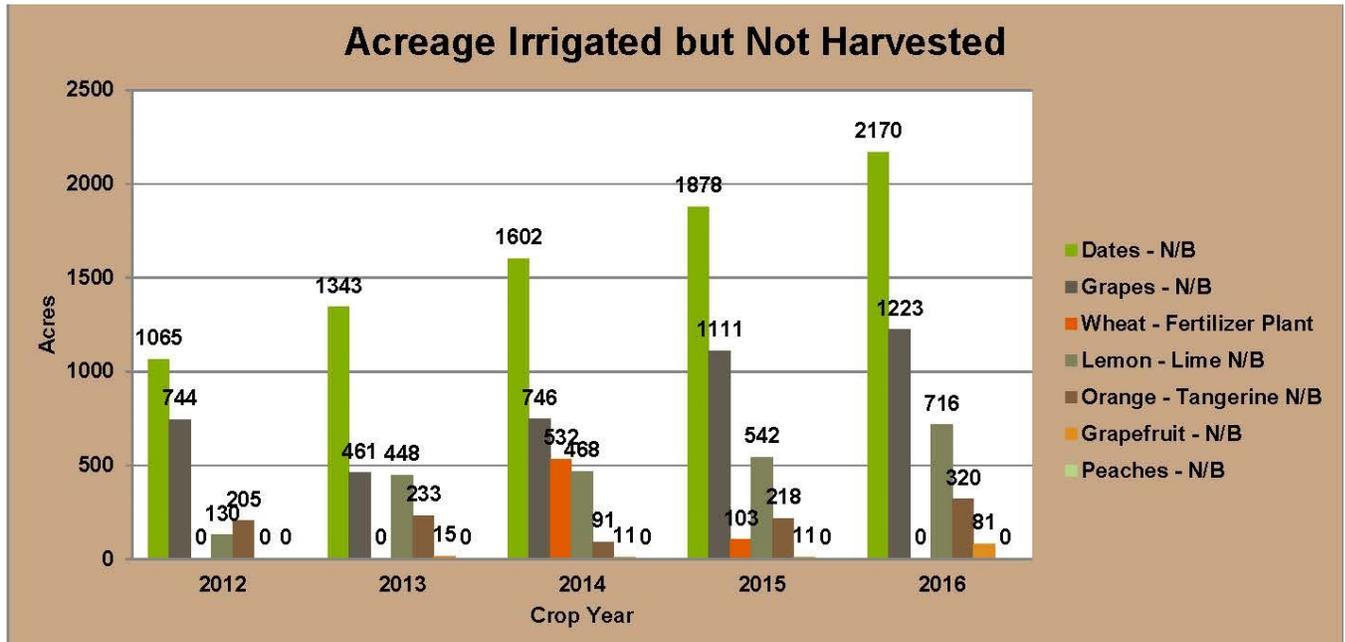
Cauliflower



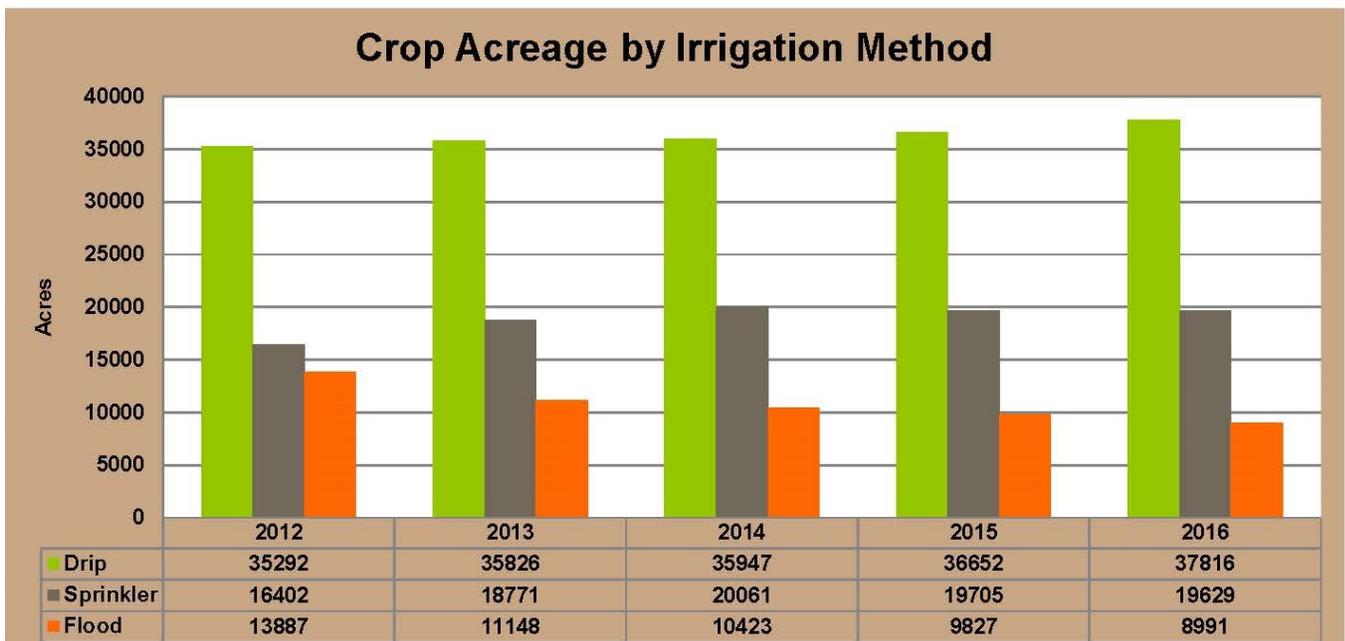
Top 10 Charts - Value & Acreage



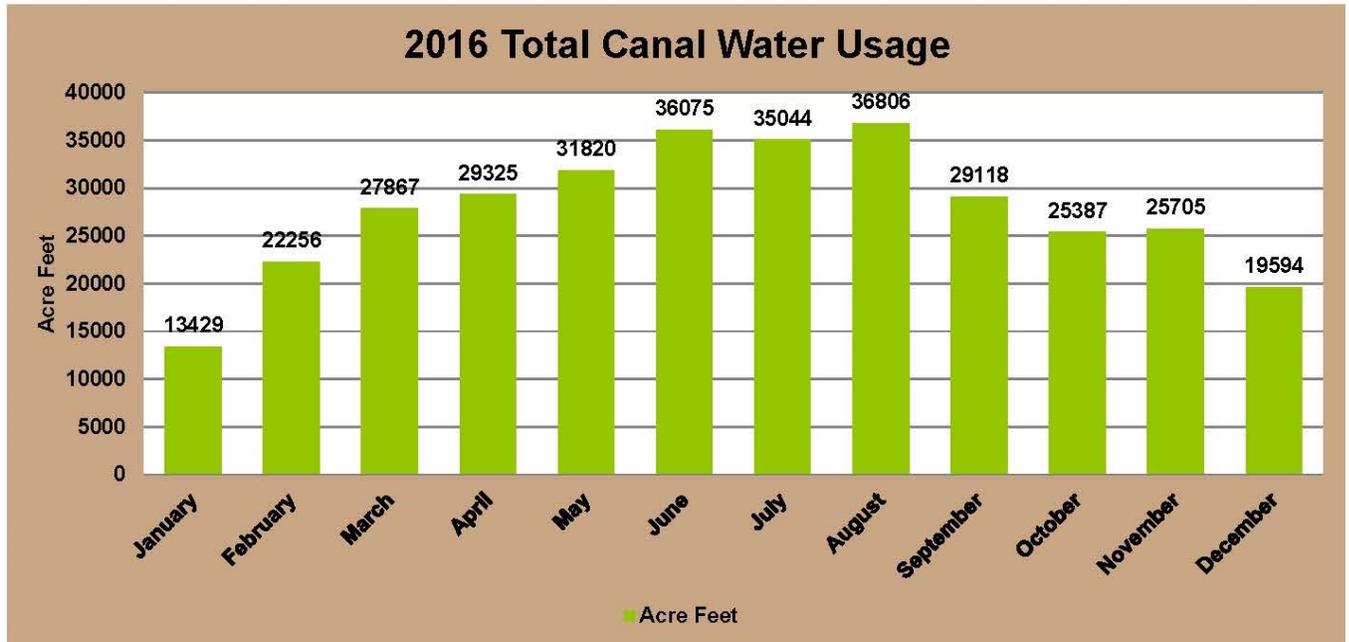
Acres Irrigated - Not Harvested



Crop Acreage by Irrigation Method Charts



Water Consumption by Source Chart



Rancho LQ Golf Course

Bureau of Reclamation Crop and Water Data

	COACHELLA VALLEY WATER DISTRICT Service Department - Zanjero Section CROP AND WATER DATA Year 2016	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: 76,411	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) <input checked="" type="checkbox"/> Full <input type="checkbox"/> Supplemental <input type="checkbox"/> Temporary		b. Commercial Acres 53,637	c. Non-commercial 1,969	d. Multi-cropped Acres 8,456					
e. Acres irrigated by: Sprinkler: 19,629 Drip: 37,816 Flood: 8,991		f. Acres irrigated but not harvested 4,354	g. Acres not Irrigated: <input type="checkbox"/> Dry Cropped <input checked="" type="checkbox"/> Fallow 10,377 <input checked="" type="checkbox"/> Idle 6,074						
h. Permanent Urbanization & Raw Land Acres: 61,005									
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	874	Ton	8.4	7,297.9	Silage (sorgo, kaffir, milo, etc.)	0	Ton	0	0
62 Other hay (Sudan)	427	Ton	6.0	2,566.3	Other forage (specify)	0	Ton	0	0
63 Irrigated pasture	1,394	AUM	1.00	1,394.0					
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	235	Ton	282	66,317
85 Cotton: Seed (American-Pima)		Ton	0	0	91 Other field crops (specify) polo, turf, golf course	7,434	Ton	315	780,570
VEGETABLES									
101 Asparagus	0	Cwt	0.00	0	117 Onions, dry	251	Ton*	12.00	3,012
102 Beans, (processing)	0	Ton	0	0	118 Onions, green	253	Ton*	6.30	1,594
103 Beans, (fresh market)	760	Ton*	1.61	1,224	119 Peas, green (processing)	0	Cwt	0	0
104 Broccoli	969	Ton*	1.50	1,449	120 Peas, green (fresh market)	0	Cwt	0.00	0
105 Cabbage	327	Ton*	7.06	2,307	121 Peppers (all kinds)	5,553	Ton*	5.25	29,115
106 Carrots	4,777	Ton*	685.00	3,272,245	122 Potatoes, early	876	Ton*	19.25	16,863
107 Cauliflower	1,417	Ton*	1.78	2,526	124 Squash	160	Ton*	127.80	19,170
108 Celery	757	Ton*	16.20	12,263	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)	1,883	Ton*	4.57	8,601	126 Tomatoes (fresh market)	320	Ton*	3.95	1,264
111 Cucumbers	0	Cwt	0.00	0	127 Other vegetables (specify) artichoke	850	Ton*	1.85	1,574
112 Greens, (b.choy spinach, O.veg.etc.)	2,001	Ton*	3.08444	6,172	egg plant	314	Ton*	4.40	1,382
113 Lettuce	3,217	Ton*	4.55	14,637	okra	643	Ton*	1.29	829
					radishes	101	Ton*	2.63	265
					spices	1,491	Ton*	2.31	3,444

* All lbs. and cwt are now 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)	1,454		14523.0	21,116,442	138	Fish farm	165	Ton	6.01	992
						139	Duck ponds	775	Lb	9.65	7479
SEED CROPS											
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	511	Ton*	4.67	2,389
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	3,927	Ton*	6.28	24,652
163	Berries,	0	Lb	0	0	171	Olives	86	Ton	4.66	401
114	Cantaloupe	0	Cwt	0	0	167	Oranges and Tangerines	1,368	Ton	8.70	11,902
164	Cherries	0	Ton	0	0	172	Peaches	16	Ton*	114.62	1,834
168	Dates	7,964	Ton	2.40	19,114	173	Pears	0	Ton	0	0
159	Figs	177	Ton	0.06	11	174	Prunes and Plums	0	Ton	0	0
169	Grapes, table	7,379	Ton	0.07	498	160	Strawberries	147	Ton*	2.64	388
176	Grapes, raisin	0	Ton	0	0	116	Watermelon	669	Ton*	560.00	374,640
177	Grapes, wine	0	Ton	0	0	175	Other fruits (specify) Mangoes	117	Ton*	0.52	61
170	Grapes, other	0	Ton	0.00	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						

* All lbs. and cwt are now calculated by tons

SECTION IV - MONTHLY WATER DISTRIBUTION								
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	13,428.6	453.8	857.0	2,910.5	53.3	222.3	8,931.8
202	February	22,256.2	391.7	1,755.3	3,109.7	78.6	526.1	16,394.8
203	March	27,867.3	366.4	1,511.6	3,279.2	418.0	767.6	21,524.5
204	April	29,325.3	384.5	387.5	2,934.2	412.3	908.5	24,298.3
205	May	31,820.4	435.1	607.4	3,250.2	488.9	1,343.4	25,695.5
206	June	36,075.4	440.7	76.3	3,143.9	371.4	1,599.8	30,443.4
207	July	35,043.5	565.7	-440.6	3,310.7	382.3	2,090.2	29,135.3
208	August	36,805.8	488.0	-496.6	3,310.6	444.7	1,902.4	31,156.7
209	September	29,118.2	503.5	-852.9	3,141.8	447.0	1,217.7	24,661.2
210	October	25,387.3	563.0	-260.4	3,280.6	377.2	1,291.3	20,135.6
211	November	25,704.8	583.8	339.1	3,303.4	288.8	905.5	20,284.3
212	December	19,593.9	643.2	-887.6	3,387.7	510.2	472.0	15,468.5
213	TOTAL PROJECT WATER	332,426.6	5,819.4	2,595.9	38,362.5	4,272.1	13,246.8	268,129.9
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)	332,426.6	5,819.4	2,595.9	38,362.5	4,272.1	13,246.8	268,129.9

CVWD-972 (4/15)

2016 Irrigation Method Map

