

# Coachella Valley Water District 2014 Crop Report





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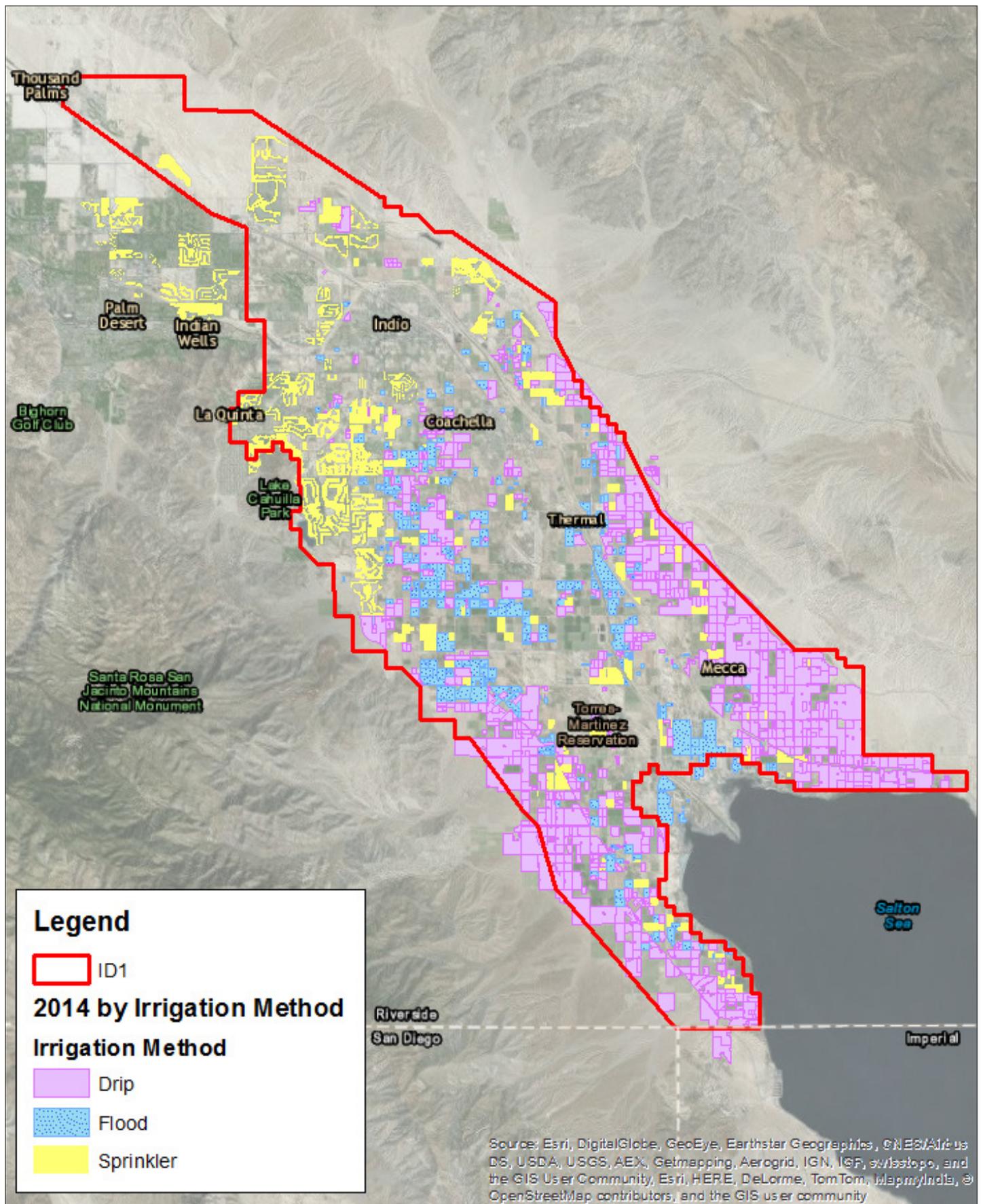
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Data Sources:

\* Value estimates obtained from the Riverside County Agricultural Commissioner’s Indio Office.

\*\* Acreage estimates obtained from CVWD field crop surveys and Geographic Information Systems (GIS) imaging.

The image below is from CVWD's new Geographic Information System (GIS) crop mapping software.



Improvement District No. 1 Boundaries

# Introduction

***Making every drop count...***

***Since 1918***

As Crop Reporter for the Coachella Valley Water District, I am pleased to submit the 2014 Crop Report. This report summarizes the estimated acreage and gross value of agricultural production within the Coachella Valley Water District Boundaries for the year 2014.

The values in this report represent the gross value for 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 2014 gross production was valued at, \$730,487,227 which represents a 9% increase over the 2013 value of \$668,745,364. Gross farmed acreage (primary and secondary) is 66,431; a 1% increase over last year's total of 65,745.

Coachella Valley Water District provides canal water for seasonal vegetables and permanent crops such as bearing and non-bearing date trees, grapes, figs, mangoes, peaches, and various citrus varieties. Canal water is also used for smaller-yield crops such as eggplant, okra and squash. Other uses of canal water include irrigation for polo fields and golf courses, to maintain wetland areas such as duck ponds, and to protect the ground water basin from excessive overdraft.

For 2014 the District has expanded its use of GIS software to more effectively identify crops and accurately measure crop acreage in the field. GIS has become an essential part of the Crop Report's data gathering methods.

I would like to express great appreciation to the Riverside County Agricultural Commissioner's office in Indio for all their help with information on crop yields and valuations, and to my fellow employees who contributed to this report; their help has been invaluable.

Sincerely,



Christopher K. Thomas  
Crop Reporter

# 2014

## Crop Values and Accumulated Values

Crop Description			Accumulated	
	Value	%	Value	%
Grapes	\$ 131,852,825	18.0	\$ 131,852,825	18.0
Lemon - Lime	93,824,406	12.8	225,677,231	30.9
Bell Peppers	87,891,750	12.0	313,568,981	42.9
Golf Course	80,128,574	11.0	393,697,555	53.9
Dates	36,184,900	5.0	429,882,455	58.8
Lettuce	28,023,774	3.8	457,906,229	62.7
Nursery - Trees	27,778,740	3.8	485,684,969	66.5
Strawberries	26,125,700	3.6	511,810,669	70.1
Carrots	21,756,480	3.0	533,567,149	73.0
Oriental Vegetables	19,430,400	2.7	552,997,549	75.7
Orange - Tangerine	16,205,904	2.2	569,203,453	77.9
Turf Grass	13,099,094	1.8	582,302,548	79.7
Potatoes	11,779,200	1.6	594,081,748	81.3
Melon - Watermelon	11,719,200	1.6	605,800,948	82.9
Green Bean	11,583,000	1.6	617,383,948	84.5
Spinach	9,809,500	1.3	627,193,448	85.9
Celery	8,835,750	1.2	636,029,198	87.1
Cauliflower	8,114,400	1.1	644,143,598	88.2
Grapefruit	7,741,244	1.1	651,884,842	89.2
Artichoke	7,368,900	1.0	659,253,742	90.2
Spice	7,113,120	1.0	666,366,862	91.2
Polo Fields	6,309,442	0.9	672,676,304	92.1
Sweet Corn	6,043,200	0.8	678,719,504	92.9
Eggplant	5,381,250	0.7	684,100,754	93.6
Broccoli	5,369,400	0.7	689,470,154	94.4
Misc. - Fish Farm	4,901,825	0.7	694,371,979	95.1
Okra	4,635,550	0.6	699,007,529	95.7
Nursery - Plants	4,124,722	0.6	703,132,251	96.3
Tomatoes	3,860,800	0.5	706,993,051	96.8
Chili Peppers	3,347,325	0.5	710,340,376	97.2
Radish	2,418,750	0.3	712,759,126	97.6
Squash	2,272,500	0.3	715,031,626	97.9
Bokchoy	2,244,800	0.3	717,276,426	98.2
Mangoes	2,172,339	0.3	719,448,765	98.5
Peaches	2,034,900	0.3	721,483,665	98.8
Onion - Dry	1,871,625	0.3	723,355,290	99.0
Basil	1,431,150	0.2	724,786,440	99.2
Onion - Green	1,353,000	0.2	726,139,440	99.4
Hay - Alfalfa	1,262,560	0.2	727,402,000	99.6
Fig	1,216,600	0.2	728,618,600	99.7
Olives	836,190	0.1	729,454,790	99.9
Kale	515,736	0.1	729,970,526	99.9
Pasture - Permanent	225,000	0.0	730,195,526	100.0
Cabbage	166,500	0.0	730,362,026	100.0
Hay - Sudan	88,320	0.0	730,450,346	100.0
Duck Ponds	36,881	0.0	730,487,227	100.0
	\$ 730,487,227	100.0		

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# 2014

## Acreage and Accumulated Acreage

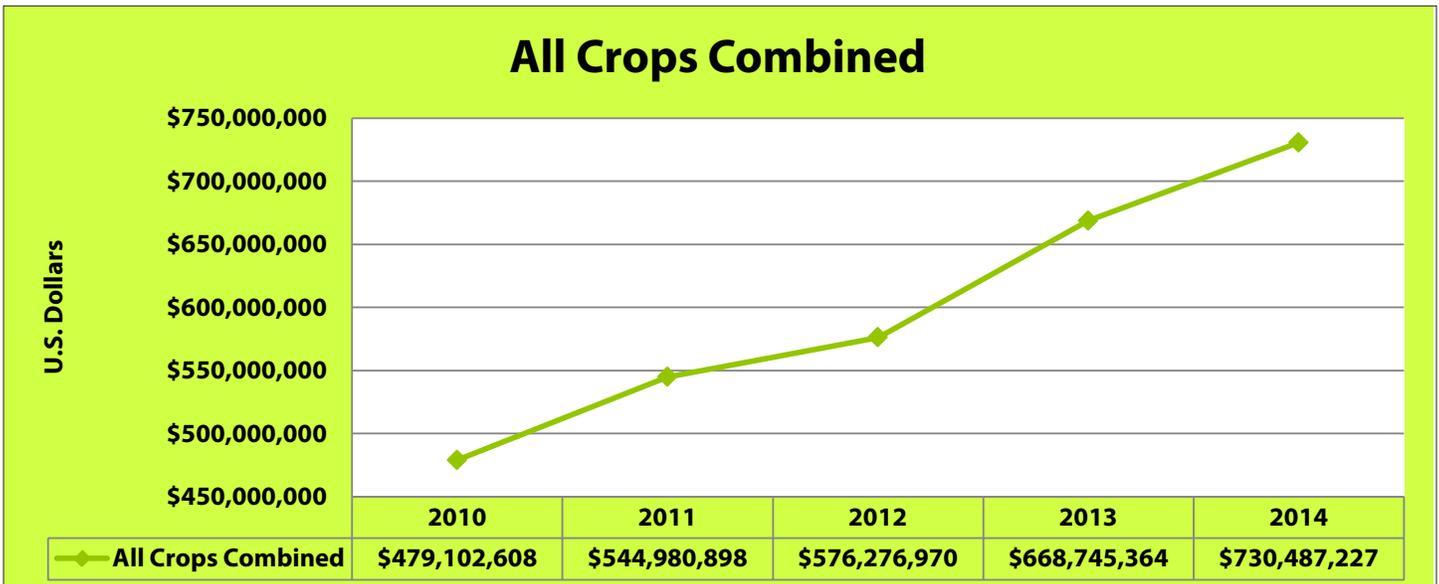
Crop Description	Acres	%	Accumulated	
			Acres	%
Grapes	7,802	11.7	7,802	11.7
Dates	7,765	11.7	15,567	23.4
Golf Course	6,007	9.0	21,574	32.5
Bell Peppers	4,490	6.8	26,064	39.2
Carrots	3,930	5.9	29,994	45.2
Lemon - Lime	3,887	5.9	33,881	51.0
Lettuce	3,234	4.9	37,115	55.9
Orange - Tangerine	2,241	3.4	39,356	59.2
Oriental Vegetables	2,112	3.2	41,468	62.4
Potatoes	1,636	2.5	43,104	64.9
Dates - N/B	1,602	2.4	44,706	67.3
Pasture - Permanent	1,500	2.3	46,206	69.6
Nursery - Trees	1,320	2.0	47,526	71.5
Sweet Corn	1,259	1.9	48,785	73.4
Green Bean	1,170	1.8	49,955	75.2
Spice	1,168	1.8	51,123	77.0
Okra	1,117	1.7	52,240	78.6
Cauliflower	1,008	1.5	53,248	80.2
Turf Grass	982	1.5	54,230	81.6
Broccoli	942	1.4	55,172	83.1
Spinach	853	1.3	56,025	84.3
Grapefruit	807	1.2	56,832	85.6
Melon - Watermelon	771	1.2	57,603	86.7
Duck Ponds	762	1.1	58,365	87.9
Celery	748	1.1	59,113	89.0
Grapes - N/B	746	1.1	59,859	90.1
Artichoke	638	1.0	60,497	91.1
Strawberries	614	0.9	61,111	92.0
Hay - Alfalfa	607	0.9	61,718	92.9
Wheat - Fertilizer Plant	532	0.8	62,250	93.7
Polo Fields	473	0.7	62,723	94.4
Lemon - Lime - N/B	468	0.7	63,191	95.1
Radish	344	0.5	63,535	95.6
Squash	303	0.5	63,838	96.1
Tomatoes	254	0.4	64,092	96.5
Eggplant	246	0.4	64,338	96.8
Bokchoy	244	0.4	64,582	97.2
Basil	235	0.4	64,817	97.6
Onion - Green	205	0.3	65,022	97.9
Nursery - Plants	196	0.3	65,218	98.2
Chili Peppers	171	0.3	65,389	98.4
Misc. - Fish Farm	165	0.2	65,554	98.7
Fig	158	0.2	65,712	98.9
Peaches	119	0.2	65,831	99.1
Mangoes	117	0.2	65,948	99.3
Onion - Dry	115	0.2	66,063	99.4
Hay - Sudan	92	0.1	66,155	99.6
Orange - Tangerine N/B	91	0.1	66,246	99.7
Olives	86	0.1	66,332	99.9
Kale	58	0.1	66,390	99.9
Cabbage	30	0.0	66,420	100.0
Grapefruit - N/B	11	0.0	66,431	100.0
	66,431	100.0		

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N/B = Non-bearing

## 5-Year History for Crops by Value

Crop Description	2010	2011	2012	2013	2014
Grapes	\$90,147,119	\$94,077,075	\$117,321,351	\$130,288,461	\$131,852,825
Lemon-Lime	\$25,759,892	\$49,711,225	\$53,920,131	\$56,516,317	\$93,824,406
Bell Peppers	\$69,770,257	\$97,526,795	\$72,197,988	\$79,111,747	\$87,891,750
Golf Course	\$48,178,373	\$57,085,336	\$47,796,210	\$60,508,404	\$80,128,574
Dates	\$46,897,786	\$43,229,570	\$40,052,000	\$45,486,000	\$36,184,900
Lettuce	\$21,769,223	\$11,172,176	\$24,836,167	\$41,500,003	\$28,023,774
Nursery-Trees	\$31,115,669	\$26,765,600	\$31,235,939	\$28,498,354	\$27,778,740
Strawberries	\$3,832,539	\$11,344,614	\$16,126,662	\$27,528,540	\$26,125,700
Carrots	\$11,274,135	\$12,967,920	\$16,841,370	\$11,750,390	\$21,756,480
Oriental Vegetables	\$19,176,451	\$14,352,086	\$8,360,110	\$21,628,343	\$19,430,400
<b>Top Ten Crops</b>	<b>\$367,921,445</b>	<b>\$418,232,398</b>	<b>\$428,687,929</b>	<b>\$502,816,560</b>	<b>\$552,997,549</b>
Other Crops	\$111,181,162	\$126,748,500	\$147,589,041	\$165,928,804	\$177,489,677
<b>All Crops Combined</b>	<b>\$479,102,608</b>	<b>\$544,980,898</b>	<b>\$576,276,970</b>	<b>\$668,745,364</b>	<b>\$730,487,227</b>



Bees used to aide in pollination of watermelons

## Grapes



Grapes

## Lemon-Lime



## Bell Peppers



Bell pepper seedlings ready for transplant

## Golf Course



## Dates



Lettuce

## Lettuce



## Nursery-Trees



Strawberries

## Strawberries



## Carrots



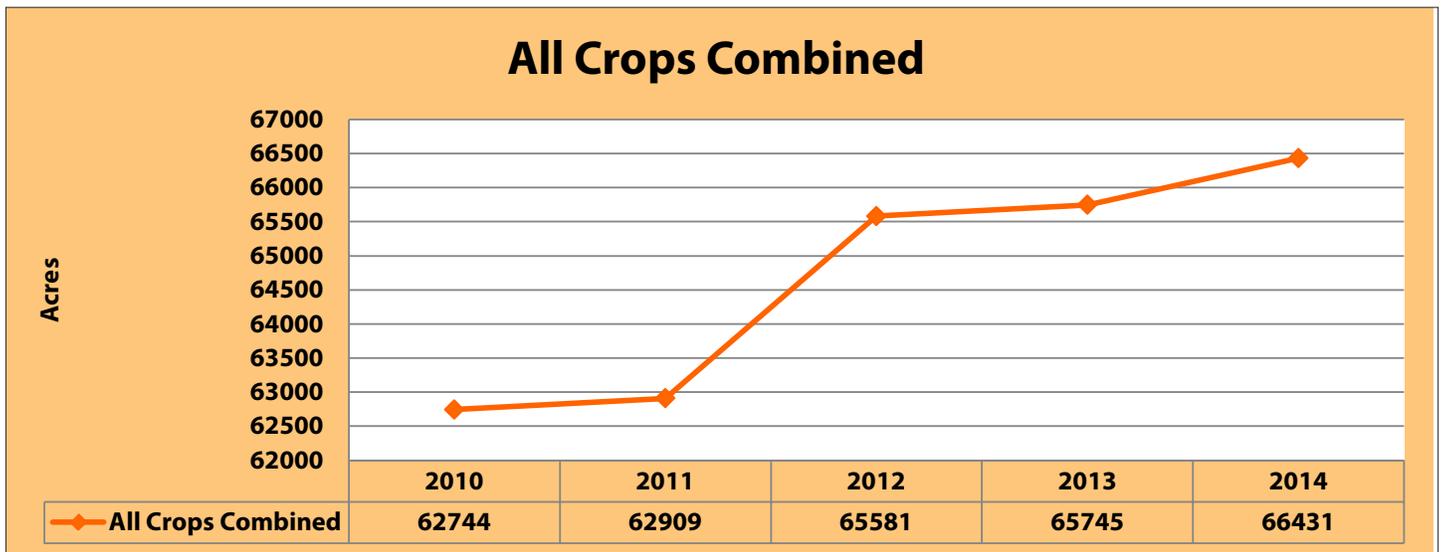
Carrots

## Oriental Vegetables



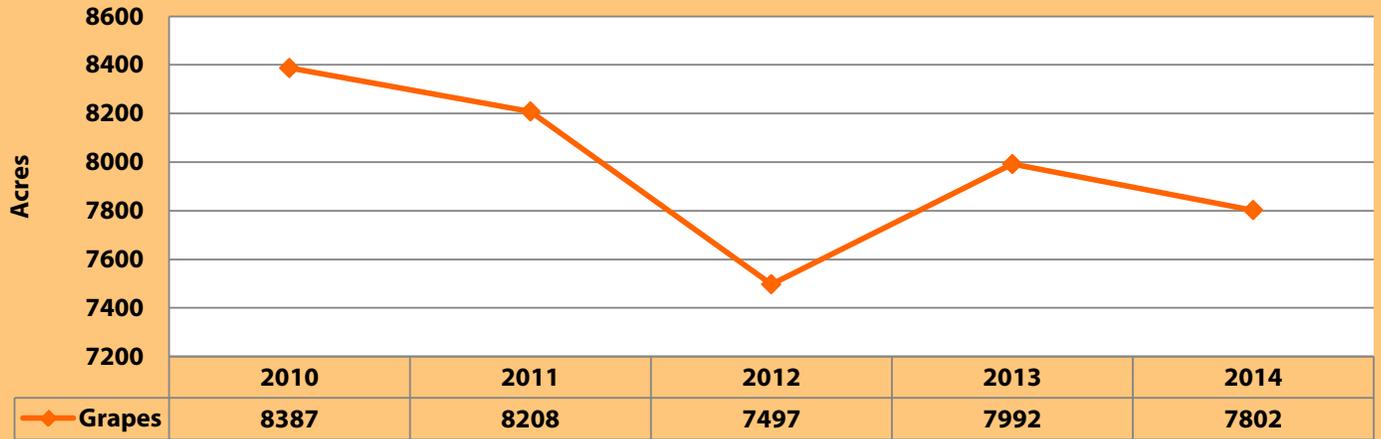
## 5-Year History for Crops by Acreage

Crop Description	2010	2011	2012	2013	2014
Grapes	8387	8208	7497	7992	7802
Dates	8503	7721	7600	7600	7765
Golf Course	5299	5393	5775	5637	6007
Bell Peppers	5037	5464	4899	4558	4490
Carrots	1879	1992	2587	3141	3930
Lemon-Lime	4191	4215	3983	4014	3887
Lettuce	3449	3795	3999	3823	3234
Orange-Tangerine	2769	2537	2235	2096	2241
Oriental Vegetables	1890	1835	2064	2306	2112
Potatoes	1109	714	1168	1402	1636
<b>Top Ten Crops</b>	<b>42513</b>	<b>41874</b>	<b>41807</b>	<b>42569</b>	<b>43104</b>
Other Crops	20231	21035	23774	23176	23327



Multi-cropped dates & eggplant

## Grapes

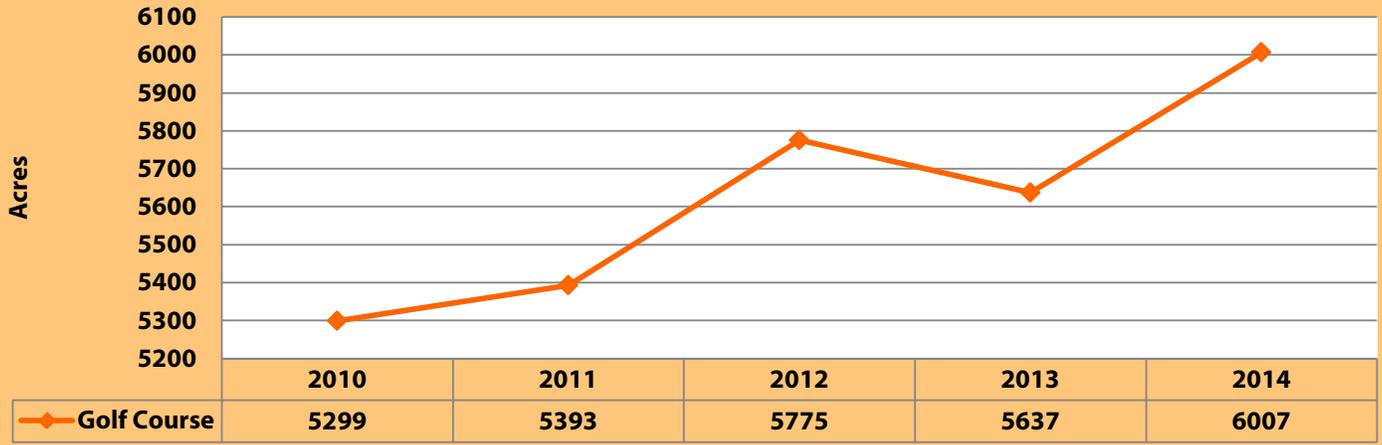


Dates

## Dates



## Golf Course

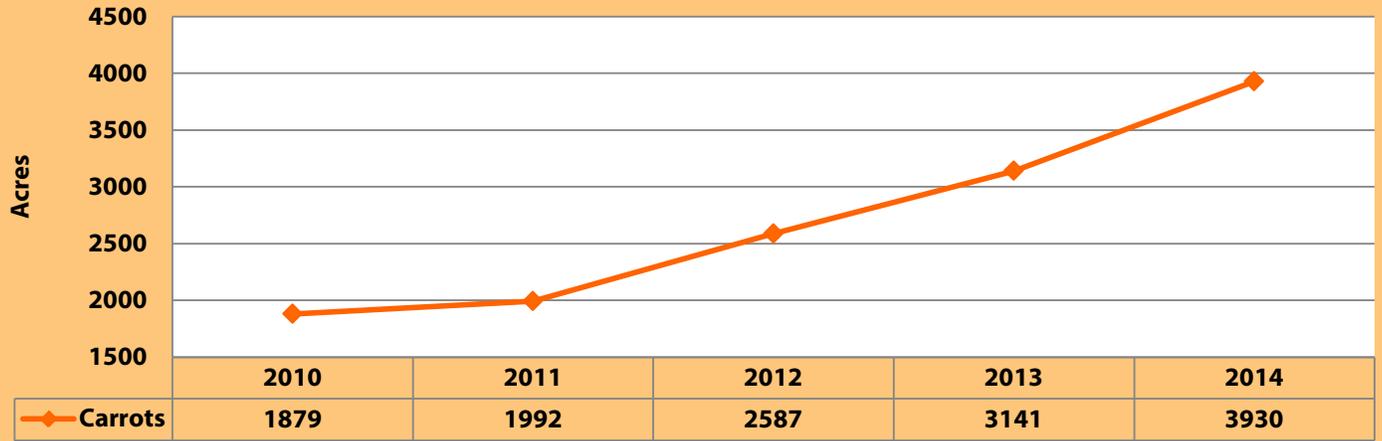


Golf course at SilverRock

## Bell Peppers

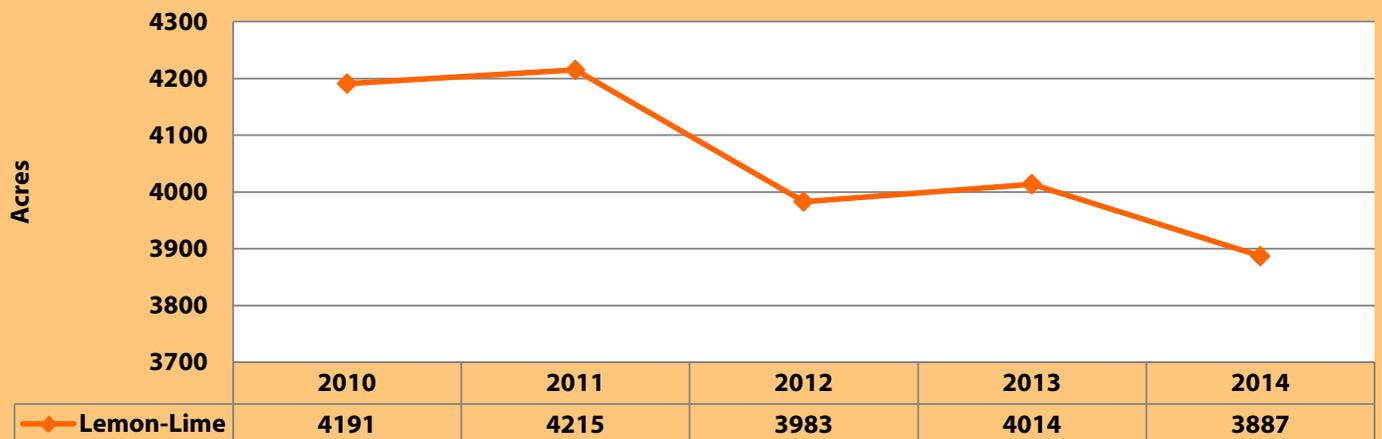


## Carrots



Garlic

## Lemon-Lime

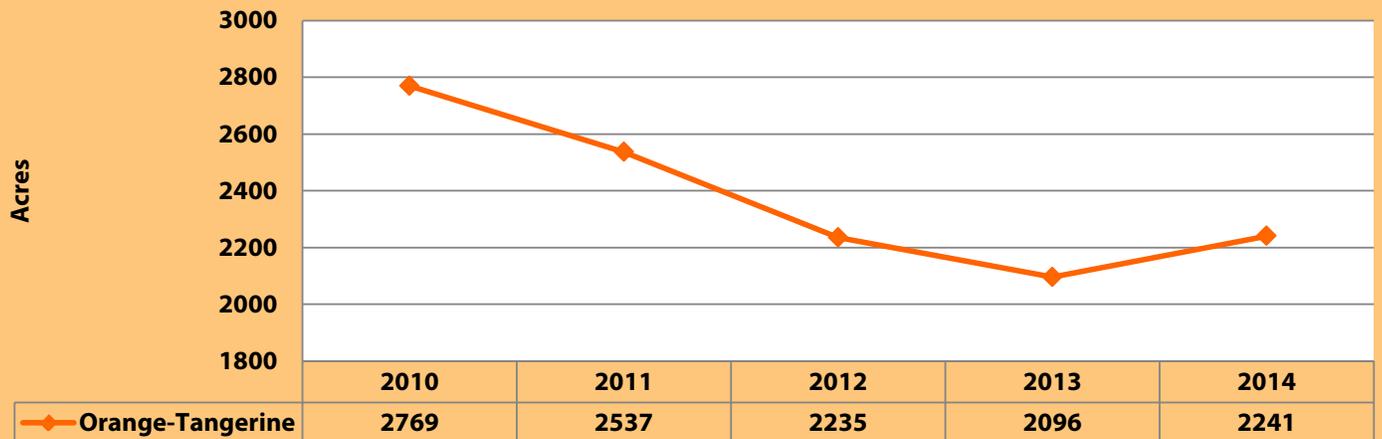


## Lettuce

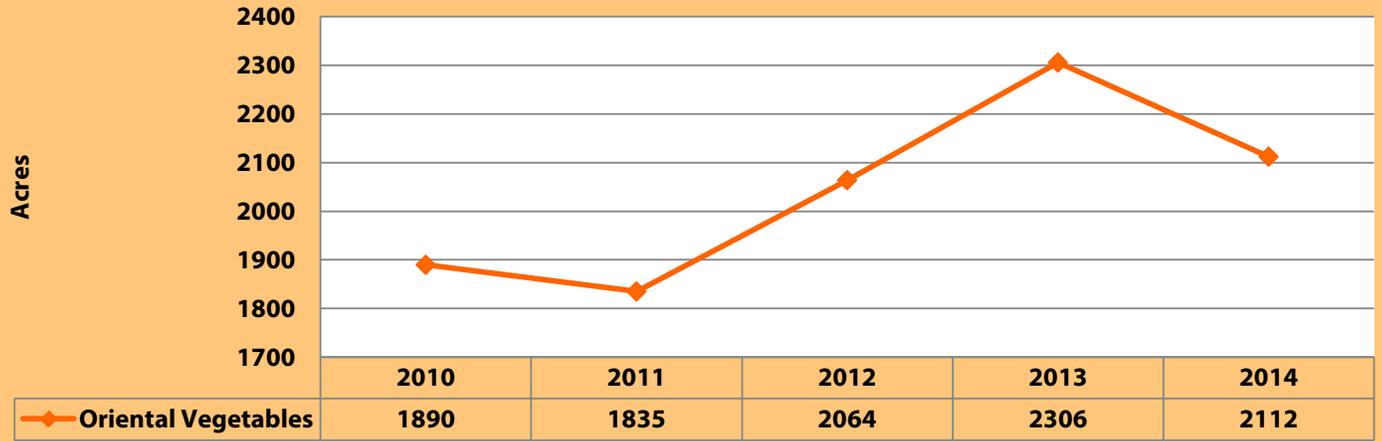


Mixed Lettuce

## Orange-Tangerine



## Oriental Vegetables

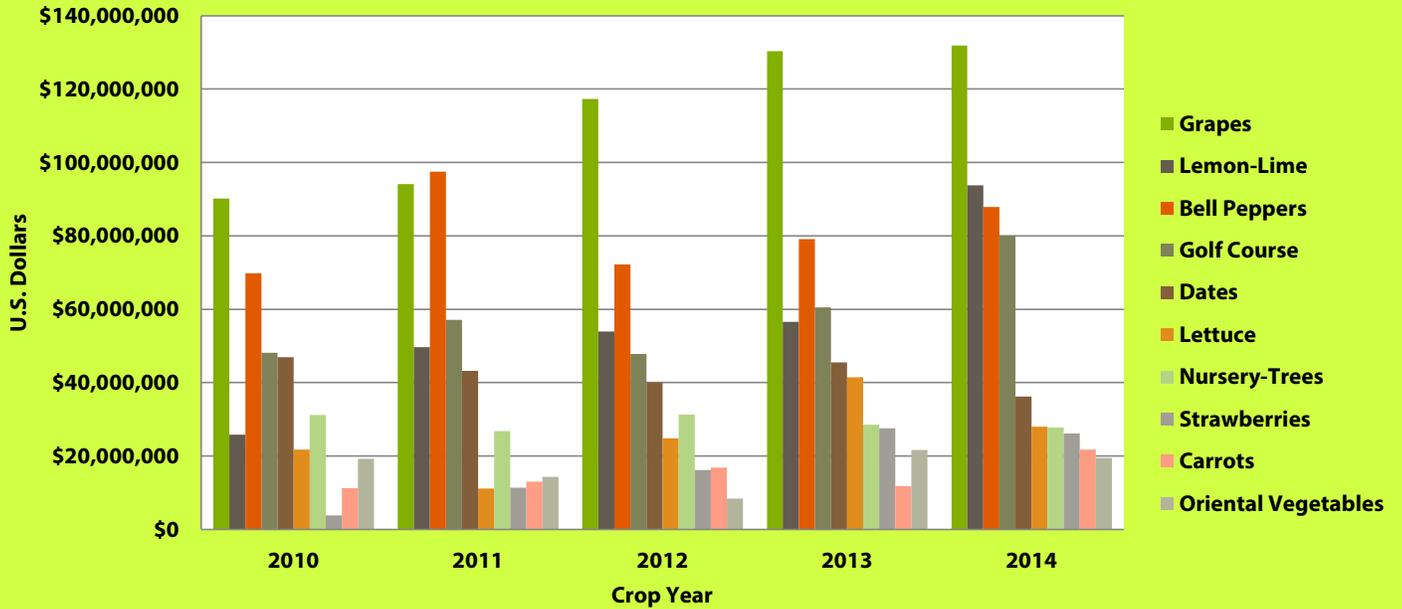


Potatoes

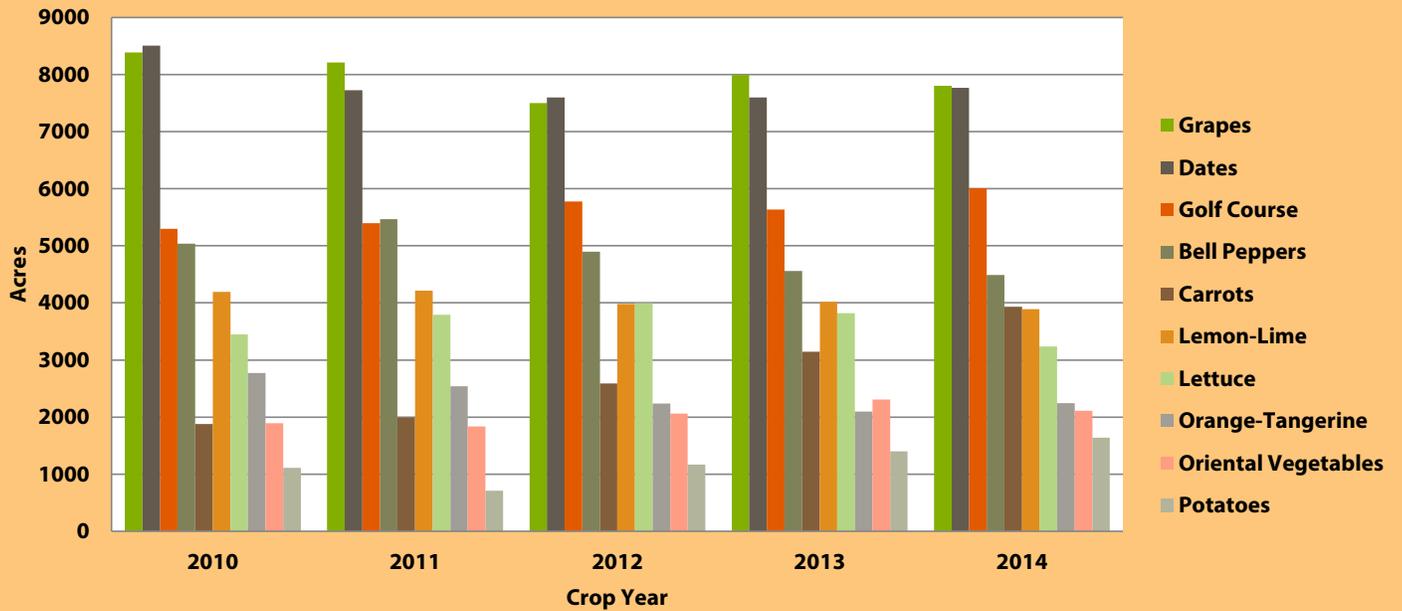
## Potatoes



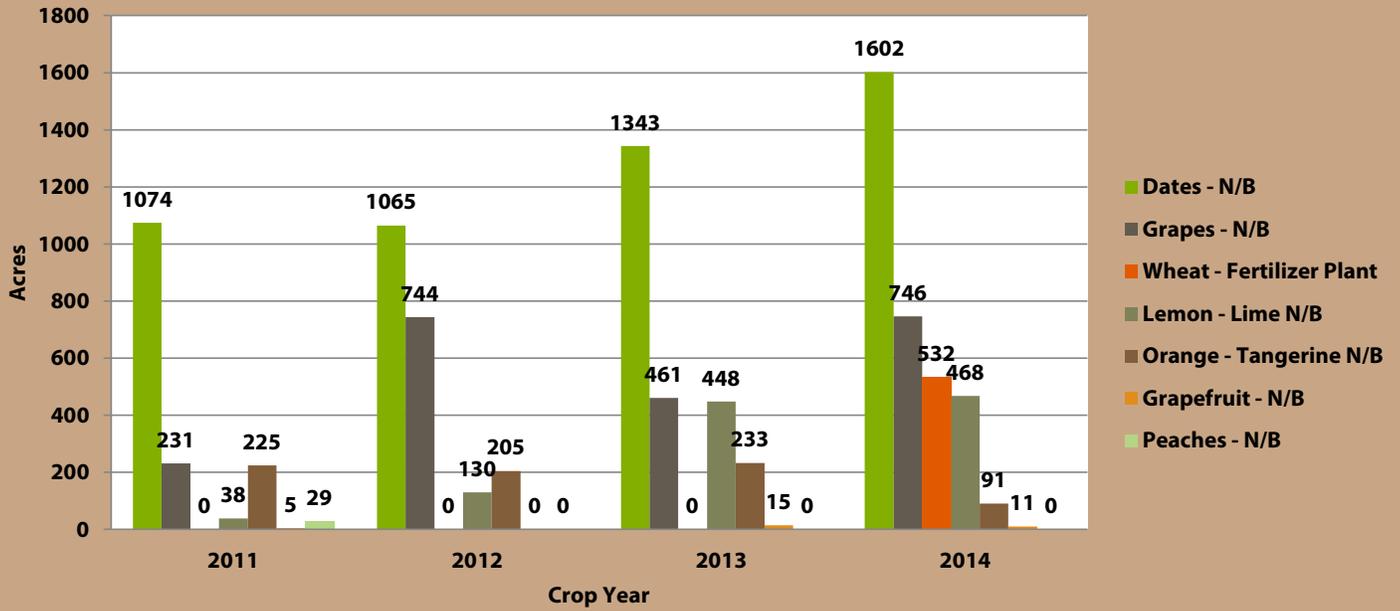
## 2014 Top Ten Crops by Value



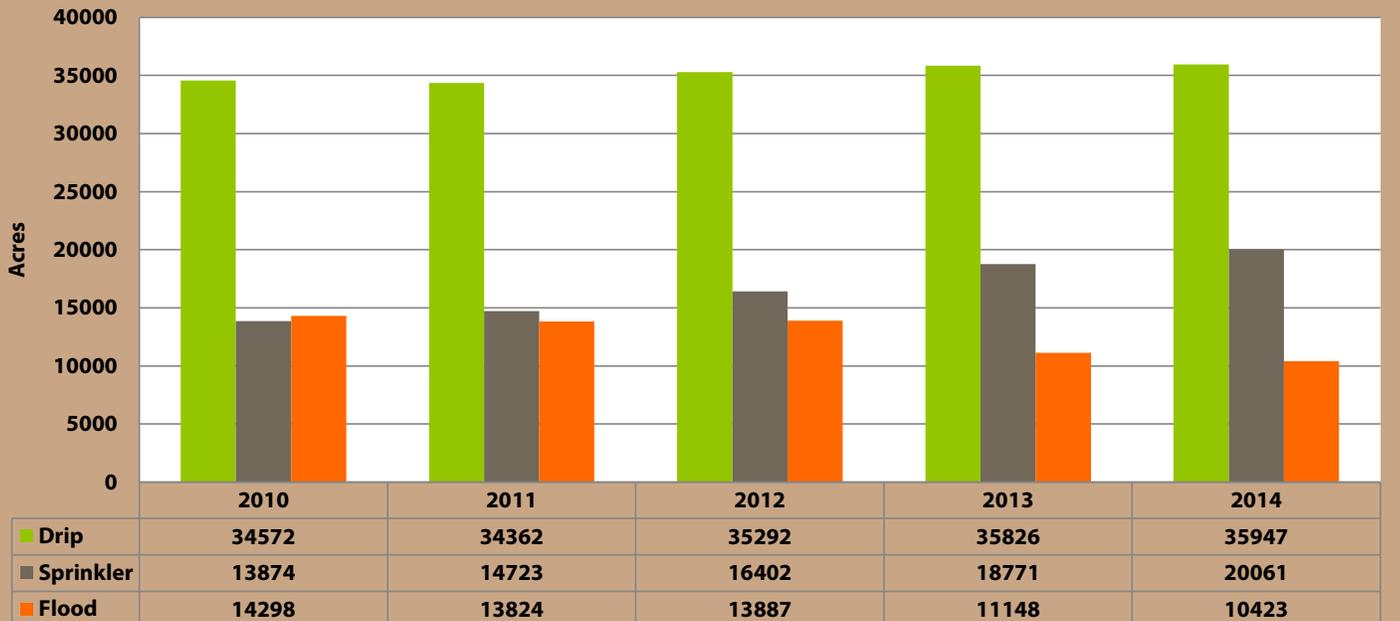
## 2014 Top Ten Crops by Acreage



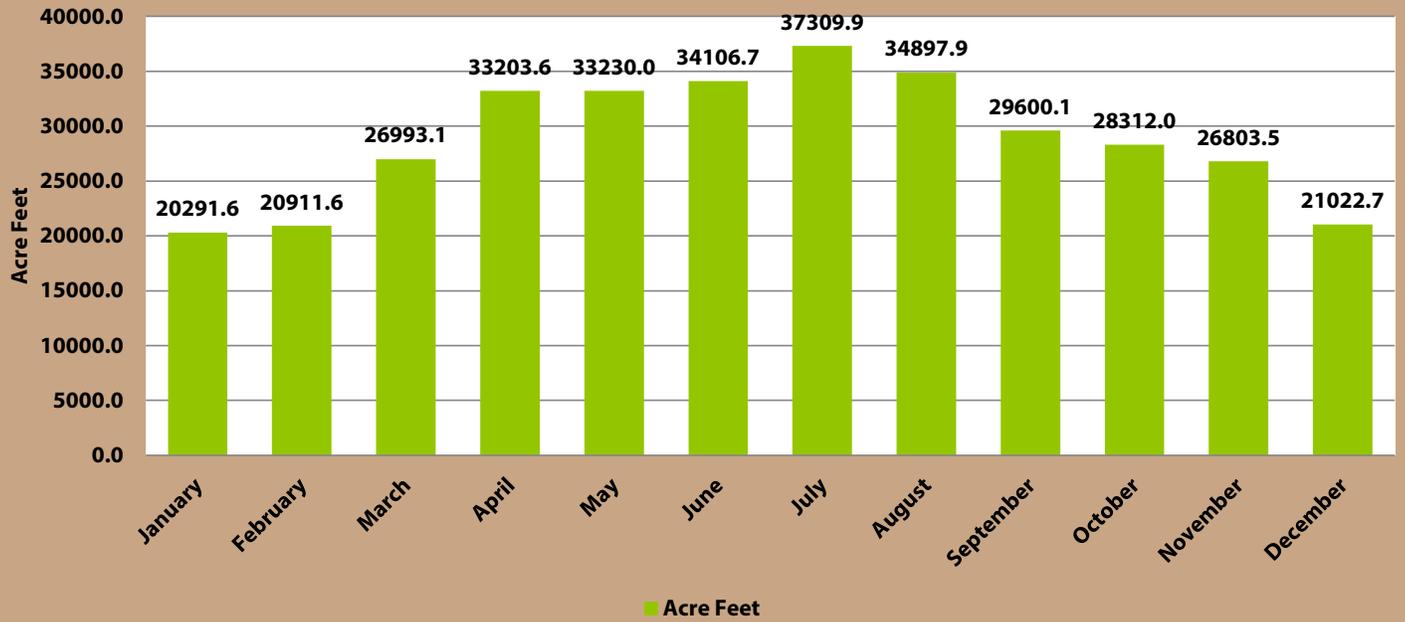
## Acreage Irrigated but Not Harvested



## Crop Acreage by Irrigation Method



## 2014 Total Canal Water Usage



Lettuce Harvest



Squash Blossoms



Pasture



**COACHELLA VALLEY WATER DISTRICT**  
**Service Department - Zanjero Section**  
**CROP AND WATER DATA**  
 Year **2014**

*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: **76,354** | l. Contact Person: **Chris Thomas** | 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 **54,863** | c. Non-commercial **1,919** | d. Multi-cropped Acres **8,118**  
 e. Acres irrigated by:  
 Sprinkler: **20,061** | Drip **35,947** | Flood: **10,423** | f. Acres irrigated but not harvested **3,450** | g. Acres not Irrigated:  
 Dry Cropped  
 Fallow **10,858**  
 Idle **5,264**  
 h. Permanent Urbanization & Raw Land Acres: **61,062**

**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
<b>CEREALS</b>									
50 Barley (malt)		Bu			54 Rice		Cwt		
51 Barley (feed)		Bu			56 Sorghums (sorgo, kaffir, milo, ect.)		Cwt		
52 Corn		Bu			57 Wheat		Bu		
53 Oats		Bu			58 Other Cereals (specify)		Bu		
<b>FORAGE</b>									
61 Alfalfa hay	<b>607</b>	Ton	<b>8.0</b>	<b>4,856.0</b>	Silage (sorgo, kaffir, milo, etc.)		Ton		
62 Other hay ( Sudan )	<b>92</b>	Ton	<b>6.0</b>	<b>552.0</b>	Other forage (specify)		Ton		
63 Irrigated pasture	<b>1,500</b>	AUM	<b>8.75</b>	<b>13,125.0</b>					
<b>MISCELLANEOUS FIELD CROPS</b>									
81 Beans, dry and edible		Cwt			86 Hops		Lb		
82 Cotton: Lint (Upland)		Lb			87 Mints		Lb		
83 Cotton: Seed (Upland)		Ton			90 Soybeans		Bu		
84 Cotton: Lint (American-Pima)		Lb			89 Sugar beets		Ton		
85 Cotton: Seed (American-Pima)		Ton			91 Other field crops (specify) polo, turf, golf course	<b>7,462</b>	Ton	<b>315</b>	<b>783,510</b>
<b>VEGETABLES</b>									
101 Asparagus		Cwt			117 Onions, dry	<b>115</b>	Cwt	<b>775.00</b>	<b>89,125</b>
102 Beans, (processing)		Ton			118 Onions, green	<b>205</b>	Cwt	<b>770.00</b>	<b>157,850</b>
103 Beans, (fresh market)	<b>1,170</b>	Cwt	<b>126.00</b>	<b>147,420</b>	119 Peas, green (processing)		Cwt		
104 Broccoli	<b>942</b>	Cwt	<b>138.00</b>	<b>129,996</b>	120 Peas, green (fresh market)		Cwt		
105 Cabbage	<b>30</b>	Cwt	<b>150.00</b>	<b>4,500</b>	121 Peppers (all kinds)	<b>4,661</b>	Cwt	<b>405.00</b>	<b>1,887,705</b>
106 Carrots	<b>3,930</b>	Cwt	<b>640.00</b>	<b>2,515,200</b>	122 Potatoes, early	<b>1,636</b>	Cwt	<b>480.00</b>	<b>785,280</b>
107 Cauliflower	<b>1,008</b>	Cwt	<b>161.00</b>	<b>162,288</b>	124 Squash	<b>303</b>	Cwt	<b>12000.00</b>	<b>3,636,000</b>
108 Celery	<b>748</b>	Cwt	<b>630.00</b>	<b>471,240</b>	100 Sweet Potatoes		Cwt		
109 Corn, sweet (processing)		Cwt			125 Tomatoes (canning)		Ton		
110 Corn, sweet (fresh market)	<b>1,259</b>	Ton	<b>180.00</b>	<b>226,620</b>	126 Tomatoes (fresh market)	<b>254</b>	Cwt	<b>380.00</b>	<b>96,520</b>
111 Cucumbers		Cwt			127 Other vegetables (specify) artichoke	<b>638</b>	Cwt	<b>161.00</b>	<b>102,718</b>
112 Greens, (b.choy spinach, O.veg.etc.)	<b>3,267</b>	Cwt	<b>263.909</b>	<b>862,190</b>	egg plant	<b>246</b>	Cwt	<b>350.00</b>	<b>86,100</b>
113 Lettuce	<b>3,234</b>	Cwt	<b>320.60</b>	<b>1,036,820</b>	okra	<b>1117</b>	Cwt	<b>83.00</b>	<b>92,711</b>
					radishes	<b>344</b>	Cwt	<b>393.75</b>	<b>135,450</b>
					spices	<b>1,403</b>	Cwt	<b>406.00</b>	<b>569,618</b>

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		
<b>NURSERY</b>											
137	Total nursery (show yield in dollars)	1,516		21044.5	31,903,462	138	Fish farm	165	Ton	6.40	1056
						139	Duck ponds	762	Lb	4.40	3353
<b>SEED CROPS</b>											
141	Alfalfa		Lb			146	Onion		Cwt		
142	Clover		Lb			147	Pea		Cwt		
143	Corn		Lb			148	Potato		Cwt		
144	Grass		Lb			149	Sugar beet		Cwt		
145	Lettuce		Lb			150	Other seed, (specify)		Cwt		
<b>FRUITS</b>											
161	Apples		Lb			165	Grapefruit	807	Cwt	303.96	245,296
162	Apricots		Ton			115	Honey Ball, Honeydew, ect.		Cwt		
158	Avocados		Ton			166	Lemons and Limes	3,887	Cwt	307.80	1,196,419
163	Berries,		Lb			171	Olives	86	Ton	7.56	650
114	Cantaloupe		Cwt			167	Oranges and Tangerines	2,241	Ton	7.03	15,754
164	Cherries		Ton			172	Peaches	119	Lb	9900.00	1,178,100
168	Dates	7,765	Ton	2.33	18,092	173	Pears		Ton		
159	Figs	158	Ton	8.40	1,327	174	Prunes and Plums		Ton		
169	Grapes, table	7,802	Ton	7.94	61,967	160	Strawberries	614	Cwt	444.00	272,616
176	Grapes, raisin		Ton			116	Watermelon	771	Cwt	760.00	585,960
177	Grapes, wine		Ton			175	Other fruits (specify) Mangoes	117	Cwt	206.30	24,137
170	Grapes, other		Ton								
<b>NUTS</b>											
181	Almonds		Lb			183	Walnuts		Lb		
182	Pecans		Lb			184	Other nuts (specify)		Lb		
180	Pistachios		Lb								

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.		
<b>1. PROJECT WATER (Acre-Feet)</b>								
201	January	20,291.6	461.9	959.5	3,302.4	208.5	186.0	15,173.3
202	February	20,911.6	451.2	328.5	2,570.3	228.9	174.5	17,158.2
203	March	26,993.1	551.8	838.2	3,418.4	206.9	372.2	21,605.6
204	April	33,203.6	459.1	661.9	3,146.2	161.7	662.2	28,112.5
205	May	33,230.0	416.7	-127.3	3,148.1	321.3	723.4	28,747.8
206	June	34,106.7	424.7	469.0	2,914.7	460.1	1,059.4	28,778.8
207	July	37,309.9	486.6	611.4	3,309.9	532.5	984.7	31,384.8
208	August	34,897.9	338.5	332.3	3,124.1	413.1	691.5	29,998.4
209	September	29,600.1	351.3	335.2	3,076.5	406.8	400.6	25,029.7
210	October	28,312.0	331.1	-10.7	3,145.5	413.3	457.3	23,975.5
211	November	26,803.5	345.0	287.1	2,690.2	164.1	366.8	22,950.3
212	December	21,022.7	369.0	714.3	3,155.3	215.3	104.0	16,464.8
213	TOTAL PROJECT WATER	346,682.7	4,986.9	5,399.4	37,001.6	3,732.5	6,182.6	289,379.7
214	M&I Population Served				0.0			
<b>2. NONPROJECT WATER (Acre-Feet)</b>								
216	Annual Data	0.0	0.0	0.0	0.0	0.0	0.0	0.0
217	TOTAL (lines 213 and 216)	346,682.7	4,986.9	5,399.4	37,001.6	3,732.5	6,182.6	289,379.7



Squash harvesting

Coachella Valley Water District  
P.O. Box 1058  
Coachella, CA 92236

Presort Standard  
U.S. POSTAGE  
PAID  
Permit No. 104  
Palm Desert, CA 92260

