

Coachella Valley Water District 2013 Crop Report



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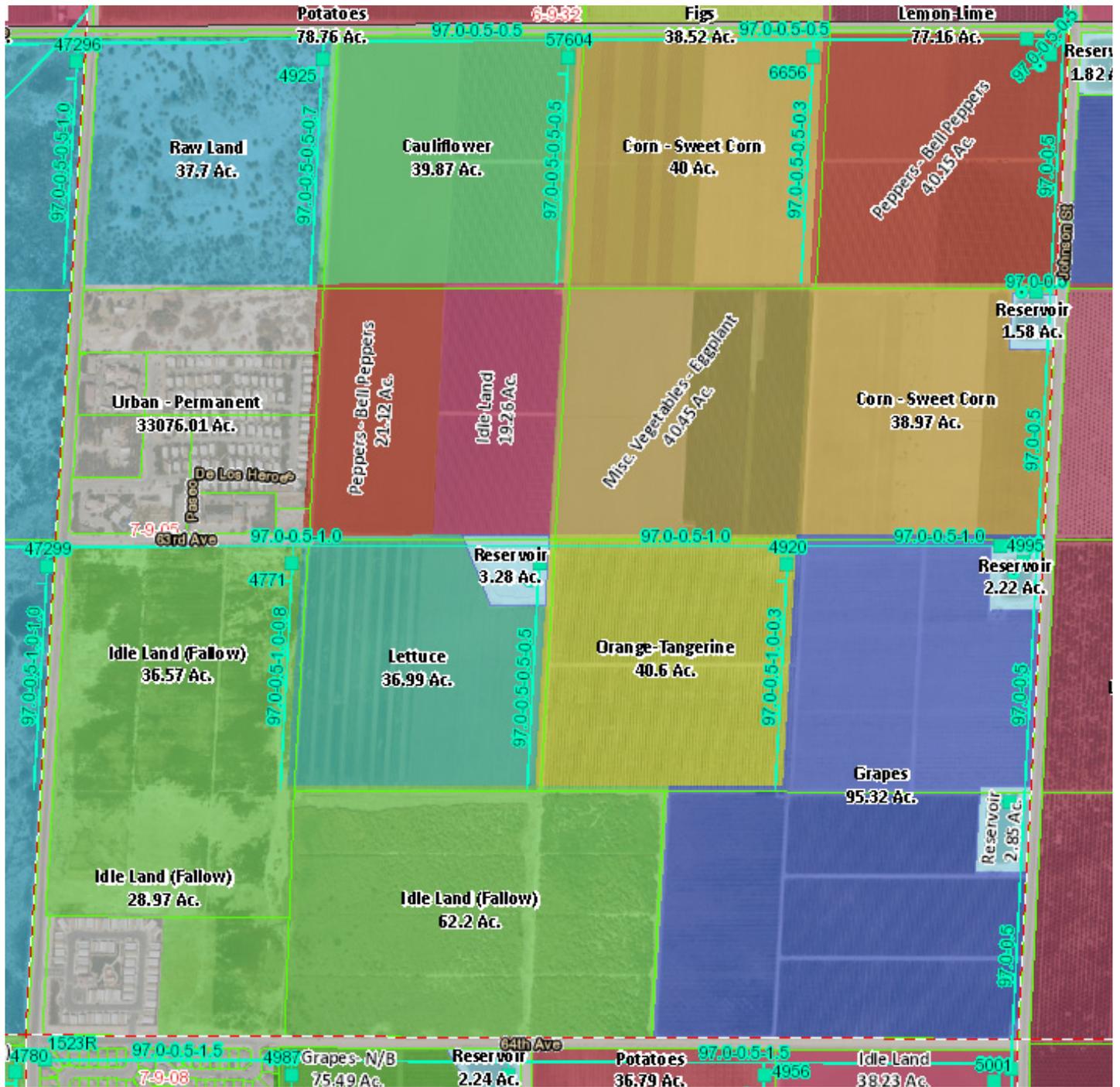
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Data Sources:

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

** Acreage estimates obtained from CVWD field crop surveys and GIS imaging.

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



Township 7 Range 9 Section 05

Introduction

Making every drop count...

Since 1918

As Crop Reporter for the Coachella Valley Water District, I am pleased to submit the 2013 Crop Report. This report summarizes the estimated acreage and gross value of agricultural production within the Coachella Valley Water District's Improvement District 1 (ID 1). ID 1 boundaries were established in the early 1920's by the Water District's Board of Directors as the area of benefit to receive Colorado River water for agriculture.

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 2013 gross production is valued at \$668,745,364, which represents an impressive 16% increase over the 2012 value of \$576,276,970. Gross farmed acreage growth (primary and secondary) was 65,745 acres, a 0.2% increase over last year's total of 65,581 acres.

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.

In 2013 the District started to utilizing new technologies, such as GIS software to more effectively identify crops and accurately measure crop acreage in the field. GIS will become an essential part of the Crop Reports information gathering methods. This year you will also see new charts added as well, including "All Crops Combined", "Acreage Irrigated Not Harvested" and "Water Consumption by Source".

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

Sincerely,



Christopher K. Thomas
Crop Reporter

2013

Crop Values and Accumulated Values

Crop Description	\$ Value	%	Accu Value	Accu %
Grapes	\$130,288,461	19.5%	\$130,288,461	19.5%
Bell Peppers	\$79,111,747	11.8%	\$209,400,209	31.3%
Golf Course	\$60,508,404	9.0%	\$269,908,612	40.4%
Lemon-Lime	\$56,516,317	8.5%	\$326,424,929	48.8%
Dates	\$45,486,000	6.8%	\$371,910,929	55.6%
Lettuce	\$41,500,003	6.2%	\$413,410,932	61.8%
Nursery-Trees	\$28,498,354	4.3%	\$441,909,287	66.1%
Strawberries	\$27,528,540	4.1%	\$469,437,827	70.2%
Oriental Vegetables	\$21,628,343	3.2%	\$491,066,170	73.4%
Orange-Tangerine	\$13,899,240	2.1%	\$504,965,410	75.5%
Melon - Watermelon	\$12,540,528	1.9%	\$517,505,938	77.4%
Carrots	\$11,750,390	1.8%	\$529,256,328	79.1%
Eggplant	\$11,462,117	1.7%	\$540,718,445	80.9%
Spinach	\$10,428,719	1.6%	\$551,147,164	82.4%
Turf Grass	\$10,304,784	1.5%	\$561,451,948	84.0%
Cauliflower	\$9,617,670	1.4%	\$571,069,618	85.4%
Green Bean	\$9,483,177	1.4%	\$580,552,795	86.8%
Sweet Corn	\$9,000,123	1.3%	\$589,552,918	88.2%
Celery	\$8,980,402	1.3%	\$598,533,321	89.5%
Grapefruit	\$7,533,291	1.1%	\$606,066,612	90.6%
Spice	\$6,458,876	1.0%	\$612,525,488	91.6%
Artichoke	\$5,568,243	0.8%	\$618,093,731	92.4%
Broccoli	\$5,252,424	0.8%	\$623,346,155	93.2%
Polo Fields	\$4,937,709	0.7%	\$628,283,864	93.9%
Nursery-Plants	\$4,505,581	0.7%	\$632,789,445	94.6%
Tomatoes	\$4,483,945	0.7%	\$637,273,390	95.3%
Misc. - Fish Farm	\$4,440,198	0.7%	\$641,713,588	96.0%
Okra	\$3,822,800	0.6%	\$645,536,388	96.5%
Potatoes	\$3,342,368	0.5%	\$648,878,756	97.0%
Bokchoy	\$2,668,575	0.4%	\$651,547,331	97.4%
Peaches	\$1,933,440	0.3%	\$653,480,771	97.7%
Squash	\$1,917,450	0.3%	\$655,398,221	98.0%
Radish	\$1,898,830	0.3%	\$657,297,051	98.3%
Mangoes	\$1,647,979	0.2%	\$658,945,030	98.5%
Chili Peppers	\$1,457,961	0.2%	\$660,402,991	98.8%
Onion - Green	\$1,406,912	0.2%	\$661,809,903	99.0%
Olives	\$1,256,990	0.2%	\$663,066,892	99.2%
Basil	\$1,246,250	0.2%	\$664,313,143	99.3%
Fig	\$1,224,300	0.2%	\$665,537,443	99.5%
Hay - Alfalfa	\$1,128,400	0.2%	\$666,665,843	99.7%
Greens	\$849,895	0.1%	\$667,515,738	99.8%
Kale	\$497,109	0.1%	\$668,012,846	99.9%
Pasture-Permanent	\$222,040	0.0%	\$668,234,886	99.9%
Hay - Sudan	\$195,000	0.0%	\$668,429,886	100.0%
Misc. Fruit	\$104,313	0.0%	\$668,534,199	100.0%
Corn	\$103,959	0.0%	\$668,638,158	100.0%
Cabbage	\$70,568	0.0%	\$668,708,725	100.0%
Duck Ponds	\$36,639	0.0%	\$668,745,364	100.0%
	\$668,745,364	100.0%		

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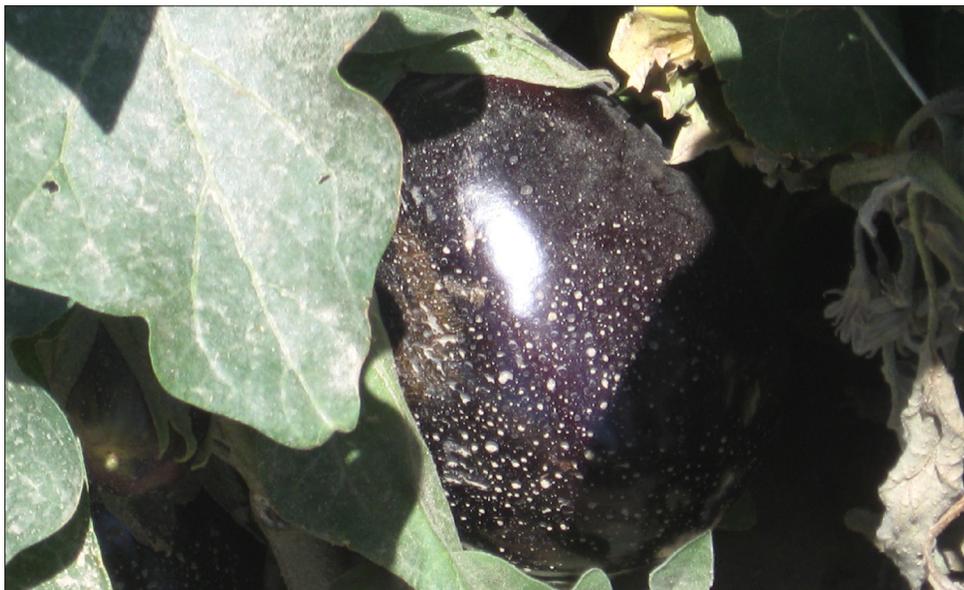
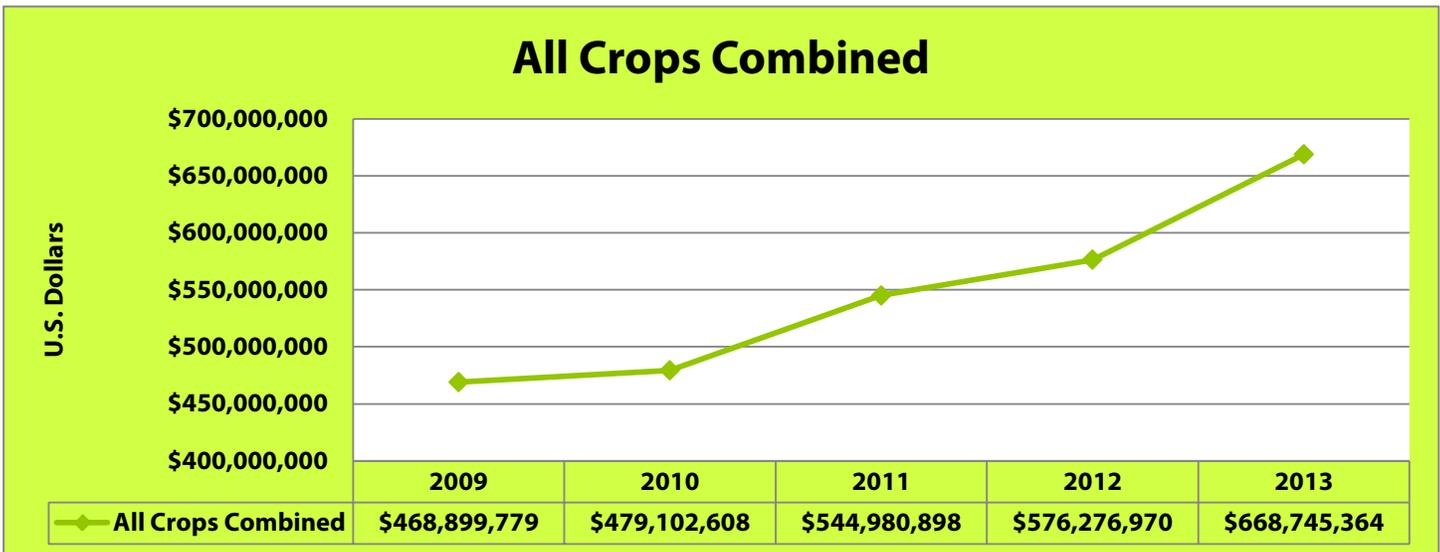
Acreage and Accumulated Acreage

Crop Description	Acres	%	Accu Ac	Accu %
Grapes	7992	12.2%	7992	12.2%
Dates	7600	11.6%	15592	23.7%
Golf Course	5637	8.6%	21229	32.3%
Bell Peppers	4558	6.9%	25787	39.2%
Lemon-Lime	4014	6.1%	29801	45.3%
Lettuce	3823	5.8%	33624	51.1%
Carrots	3141	4.8%	36765	55.9%
Oriental Vegetables	2306	3.5%	39071	59.4%
Orange-Tangerine	2096	3.2%	41167	62.6%
Sweet Corn	1995	3.0%	43162	65.7%
Pasture-Permanent	1586	2.4%	44748	68.1%
Potatoes	1402	2.1%	46150	70.2%
Dates - N/B	1343	2.0%	47493	72.2%
Nursery-Trees	1284	2.0%	48777	74.2%
Spice	1135	1.7%	49912	75.9%
Cauliflower	1125	1.7%	51037	77.6%
Green Bean	1075	1.6%	52112	79.3%
Okra	1006	1.5%	53118	80.8%
Broccoli	993	1.5%	54111	82.3%
Turf Grass	960	1.5%	55071	83.8%
Grapefruit	894	1.4%	55965	85.1%
Melon - Watermelon	819	1.2%	56784	86.4%
Duck Ponds	757	1.2%	57541	87.5%
Spinach	725	1.1%	58266	88.6%
Hay - Alfalfa	620	0.9%	58886	89.6%
Strawberries	580	0.9%	59466	90.4%
Artichoke	579	0.9%	60045	91.3%
Celery	574	0.9%	60619	92.2%
Grapes - N/B	461	0.7%	61080	92.9%
Polo Fields	460	0.7%	61540	93.6%
Lemon-Lime - N/B	448	0.7%	61988	94.3%
Eggplant	396	0.6%	62384	94.9%
Bokchoy	391	0.6%	62775	95.5%
Radish	334	0.5%	63109	96.0%
Hay - Sudan	260	0.4%	63369	96.4%
Squash	252	0.4%	63621	96.8%
Onion - Green	247	0.4%	63868	97.1%
Orange-Tangerine N/B	233	0.4%	64101	97.5%
Tomatoes	222	0.3%	64323	97.8%
Basil	219	0.3%	64542	98.2%
Nursery-Plants	203	0.3%	64745	98.5%
Fig	159	0.2%	64904	98.7%
Misc. - Fish Farm	157	0.2%	65061	99.0%
Mangoes	118	0.2%	65179	99.1%
Greens	106	0.2%	65285	99.3%
Peaches	106	0.2%	65391	99.5%
Chili Peppers	84	0.1%	65475	99.6%
Olives	83	0.1%	65558	99.7%
Corn	80	0.1%	65638	99.8%
Kale	62	0.1%	65700	99.9%
Misc. Fruit	16	0.0%	65716	100.0%
Grapefruit - N/B	15	0.0%	65731	100.0%
Cabbage	14	0.0%	65745	100.0%
	65745	100.0%		

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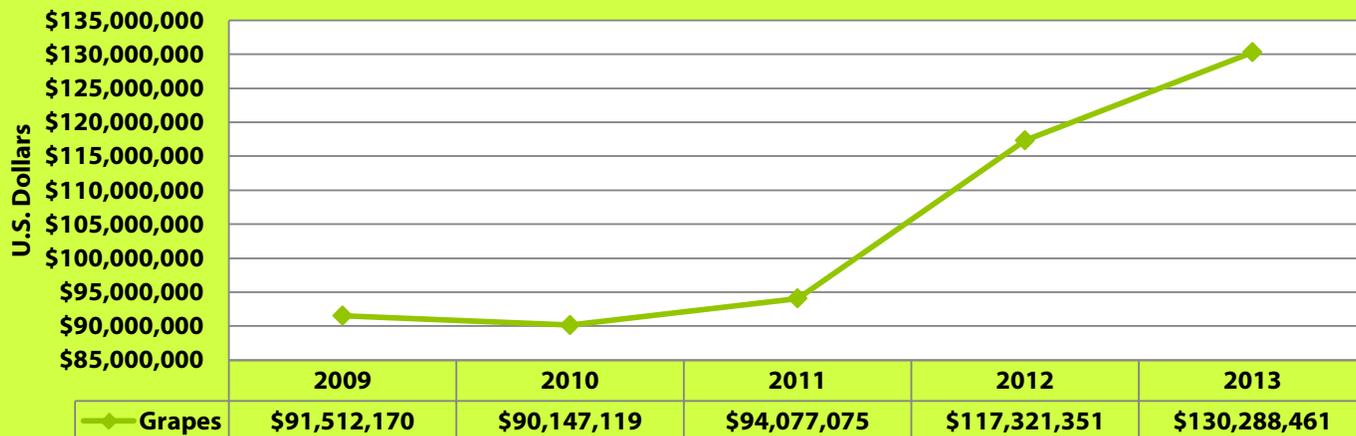
5-Year History for Crops by Value

Crop Description	2009	2010	2011	2012	2013
Grapes	\$91,512,170	\$90,147,119	\$94,077,075	\$117,321,351	\$130,288,461
Bell Peppers	\$59,506,258	\$69,770,257	\$97,526,795	\$72,197,988	\$79,111,747
Golf Course	\$45,741,724	\$48,178,373	\$57,085,336	\$47,796,210	\$60,508,404
Lemon-Lime	\$26,829,379	\$25,759,892	\$49,711,225	\$53,920,131	\$56,516,317
Dates	\$44,945,321	\$46,897,786	\$43,229,570	\$40,052,000	\$45,486,000
Lettuce	\$25,297,491	\$21,769,223	\$11,172,176	\$24,836,167	\$41,500,003
Nursery-Trees	\$32,498,029	\$31,115,669	\$26,765,600	\$31,235,939	\$28,498,354
Strawberries	\$3,314,303	\$3,832,539	\$11,344,614	\$16,126,662	\$27,528,540
Oriental Vegetables	\$16,284,764	\$19,176,451	\$14,352,086	\$8,360,110	\$21,628,343
Orange-Tangerine	\$12,522,027	\$12,594,803	\$15,777,390	\$14,492,105	\$13,899,240
Top Ten Crops	\$358,451,467	\$369,242,113	\$421,041,868	\$426,338,664	\$504,965,410
Other Crops	\$110,448,313	\$109,860,495	\$123,939,030	\$149,938,306	\$163,779,954
All Crops Combined	\$468,899,779	\$479,102,608	\$544,980,898	\$576,276,970	\$668,745,364



Eggplant

Grapes



Basil

Bell Peppers



Golf Course



Golf Course

Lemon-Lime

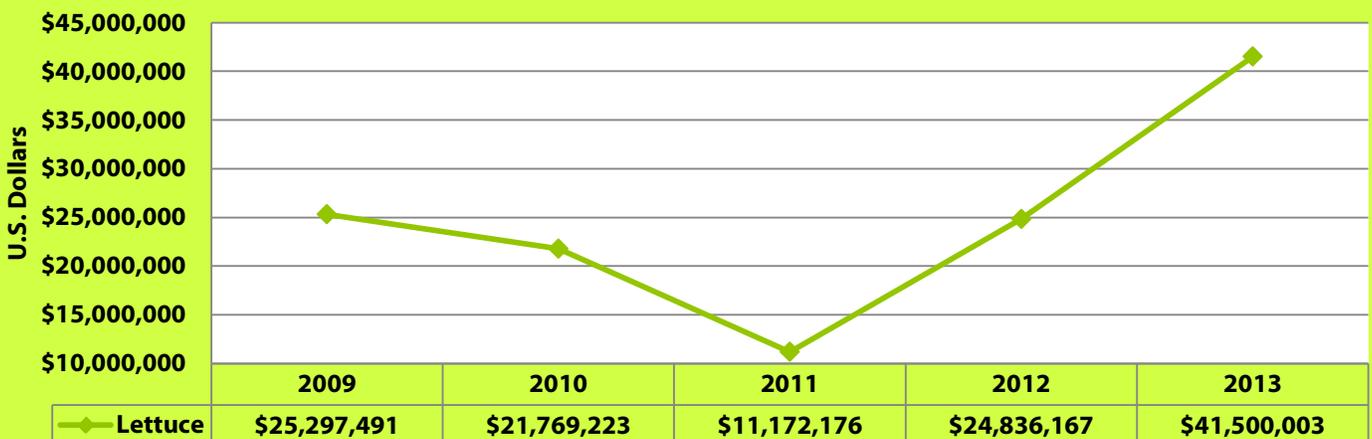


Dates

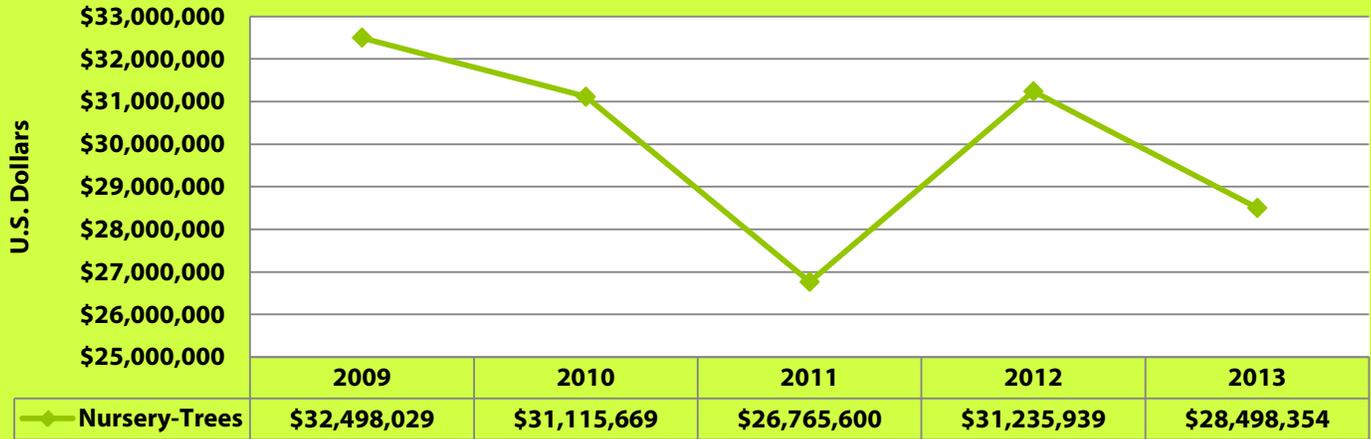


Artichokes

Lettuce



Nursery-Trees



Mangoes

Strawberries



Oriental Vegetables



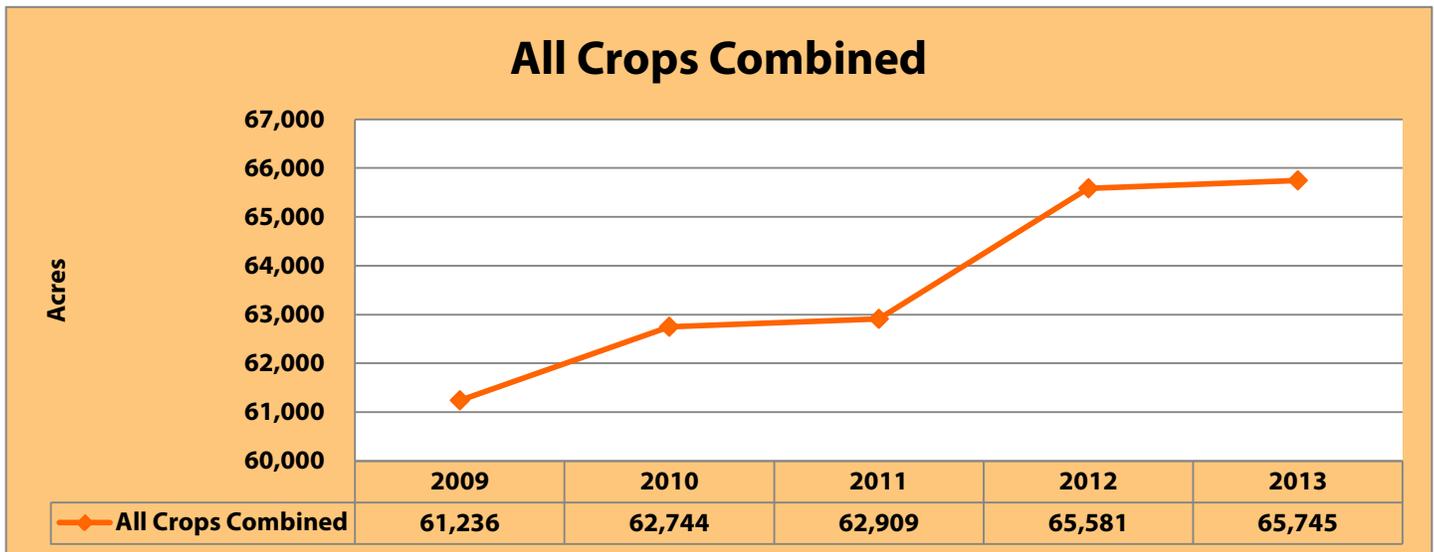
Bok Choy

Orange-Tangerine



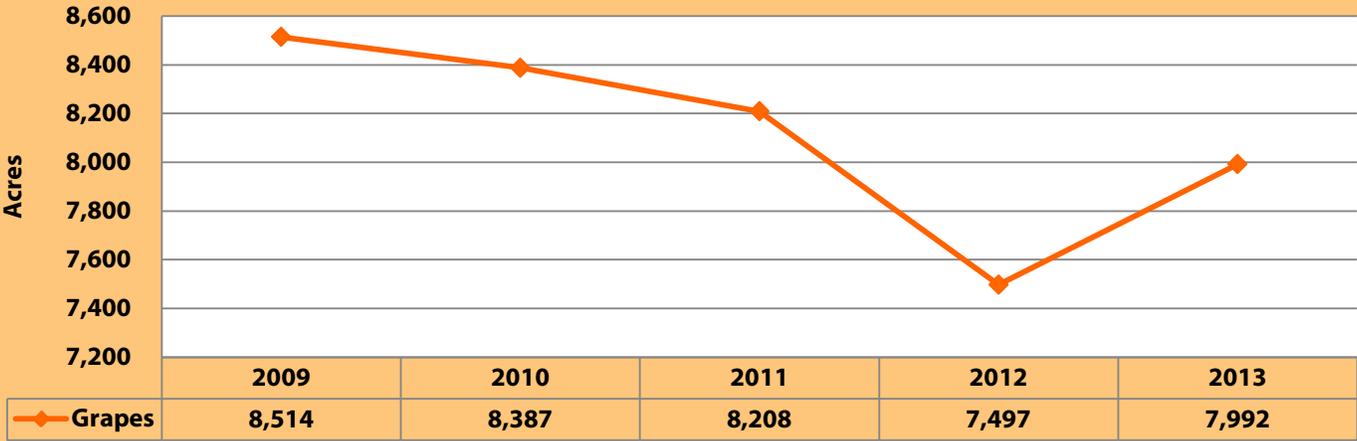
5-Year History for Crops by Acreage

Crop Description	2009	2010	2011	2012	2013
Grapes	8,514	8,387	8,208	7,497	7,992
Dates	8,149	8,503	7,721	7,600	7,600
Golf Course	5,031	5,299	5,393	5,775	5,637
Bell Peppers	4,296	5,037	5,464	4,899	4,558
Lemon-Lime	4,365	4,191	4,215	3,983	4,014
Lettuce	4,008	3,449	3,795	3,999	3,823
Carrots	2,146	1,879	1,992	2,587	3,141
Oriental Vegetables	1,605	1,890	1,835	2,064	2,306
Orange-Tangerine	2,753	2,769	2,537	2,235	2,096
Sweet Corn	2,427	3,105	2,747	2,795	1,995
Top Ten Crops	45,303	46,519	45,918	45,446	45,175
Other Crops	15,933	16,225	16,991	20,135	20,570
All Crops Combined	61,236	62,744	62,909	65,581	65,745



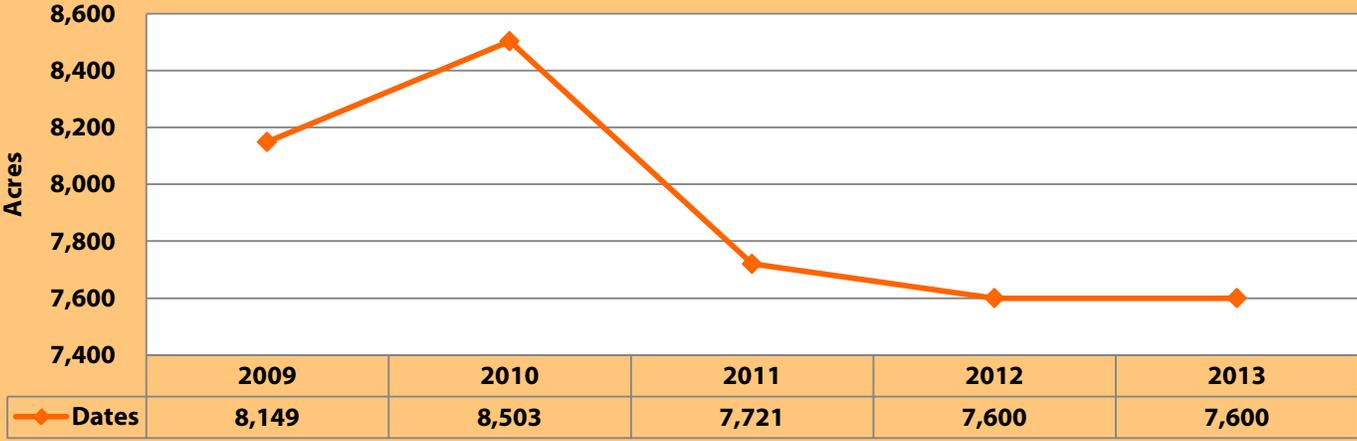
Carrots

Grapes

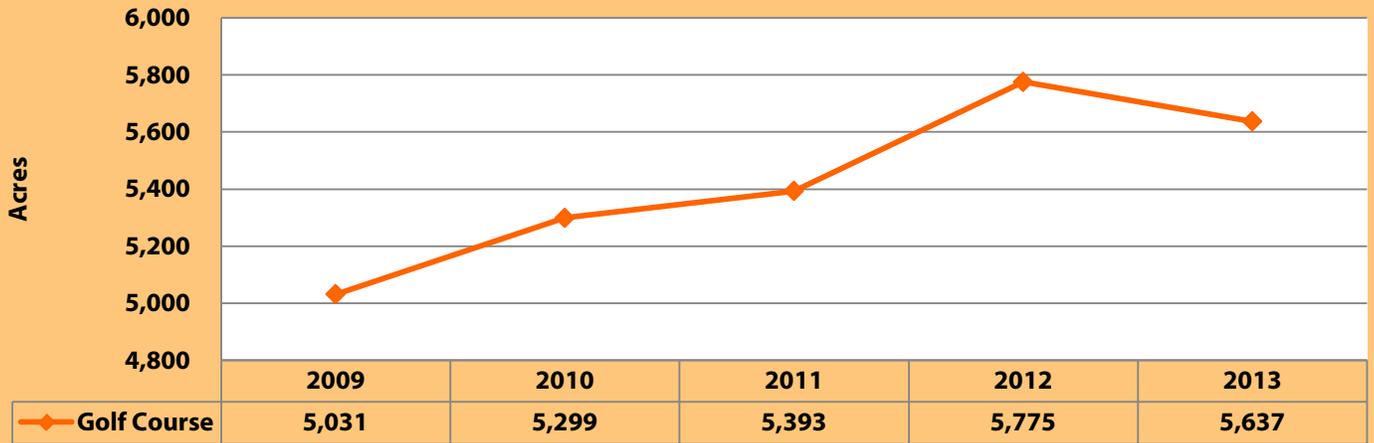


Grapes

Dates



Golf Course



Bell Peppers

Bell Peppers

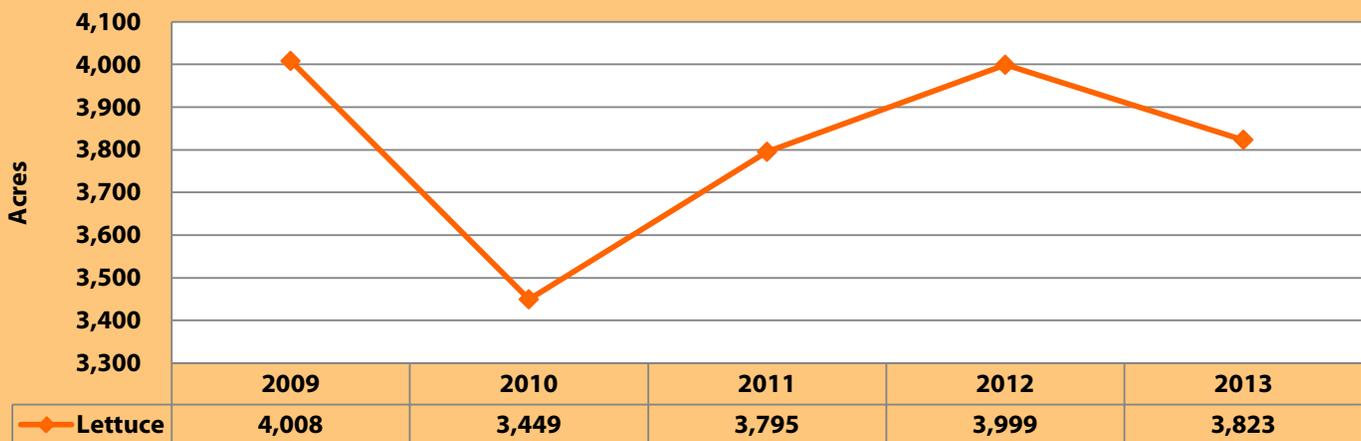


Lemon-Lime

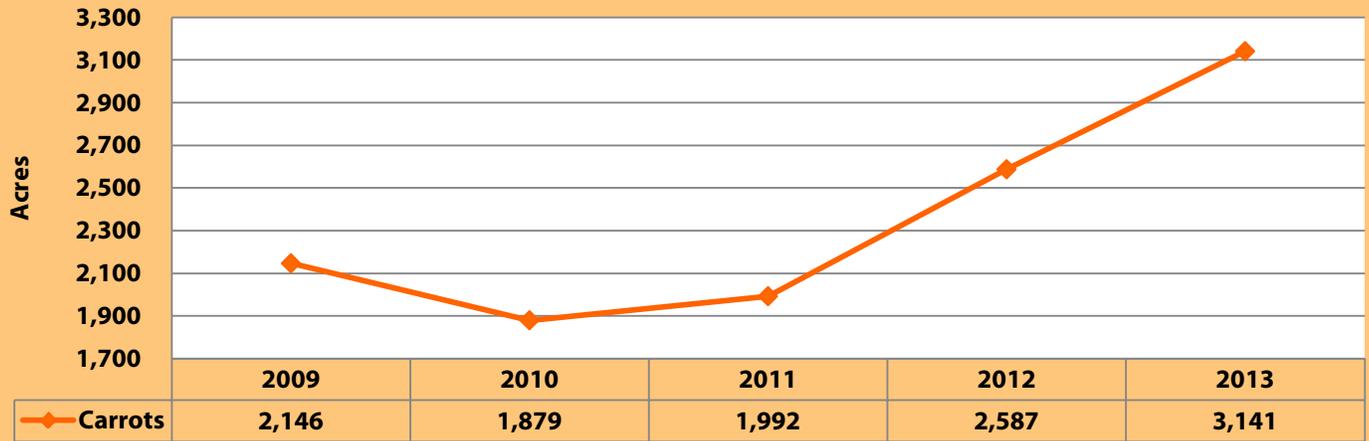


Lettuce

Lettuce

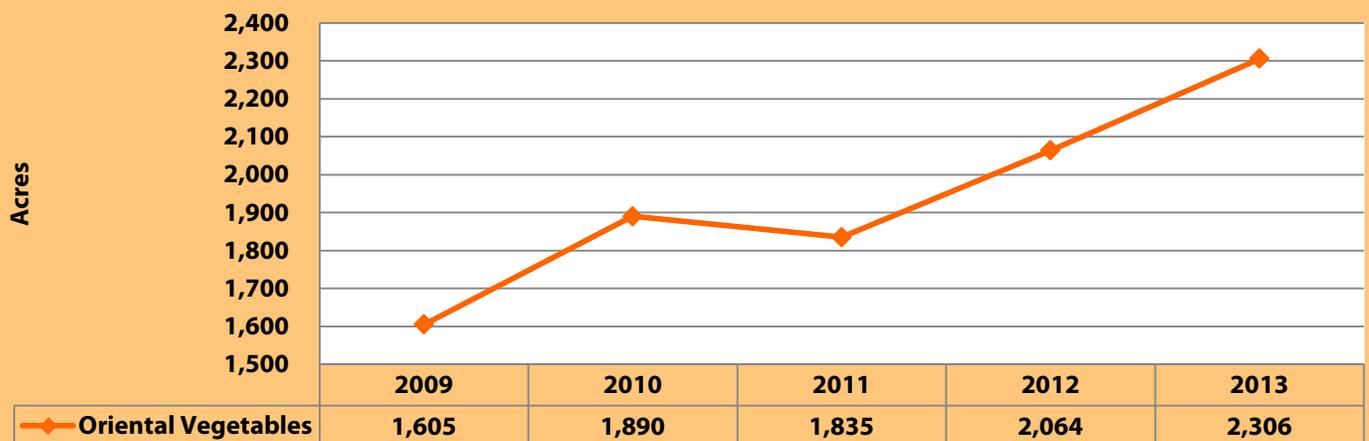


Carrots



Cauliflower

Oriental Vegetables

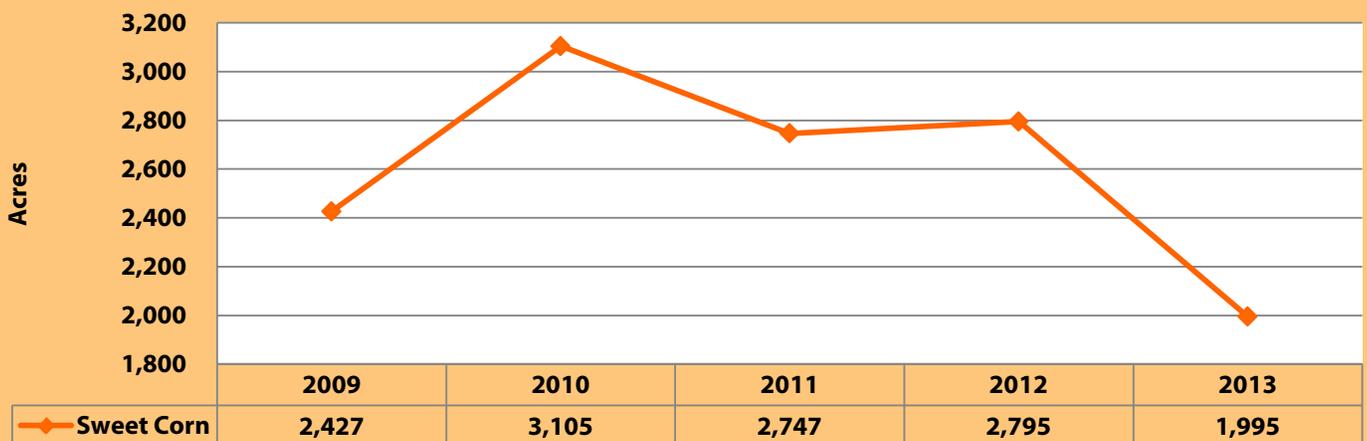


Orange-Tangerine

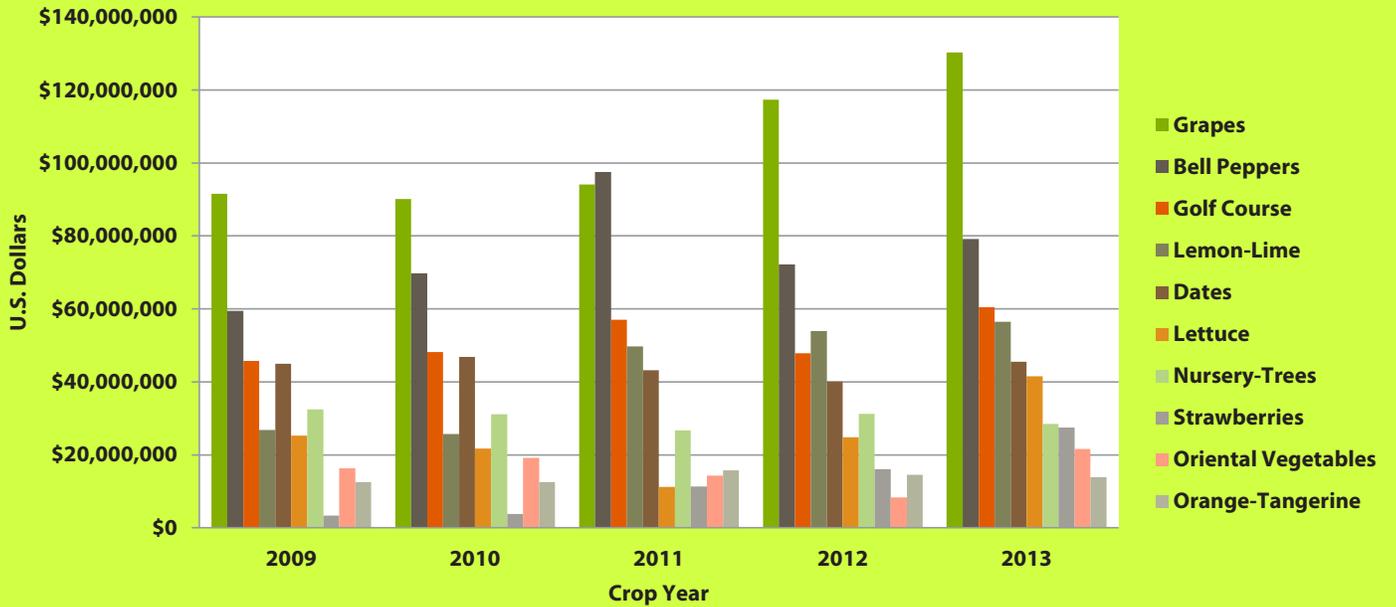


Sweet Corn

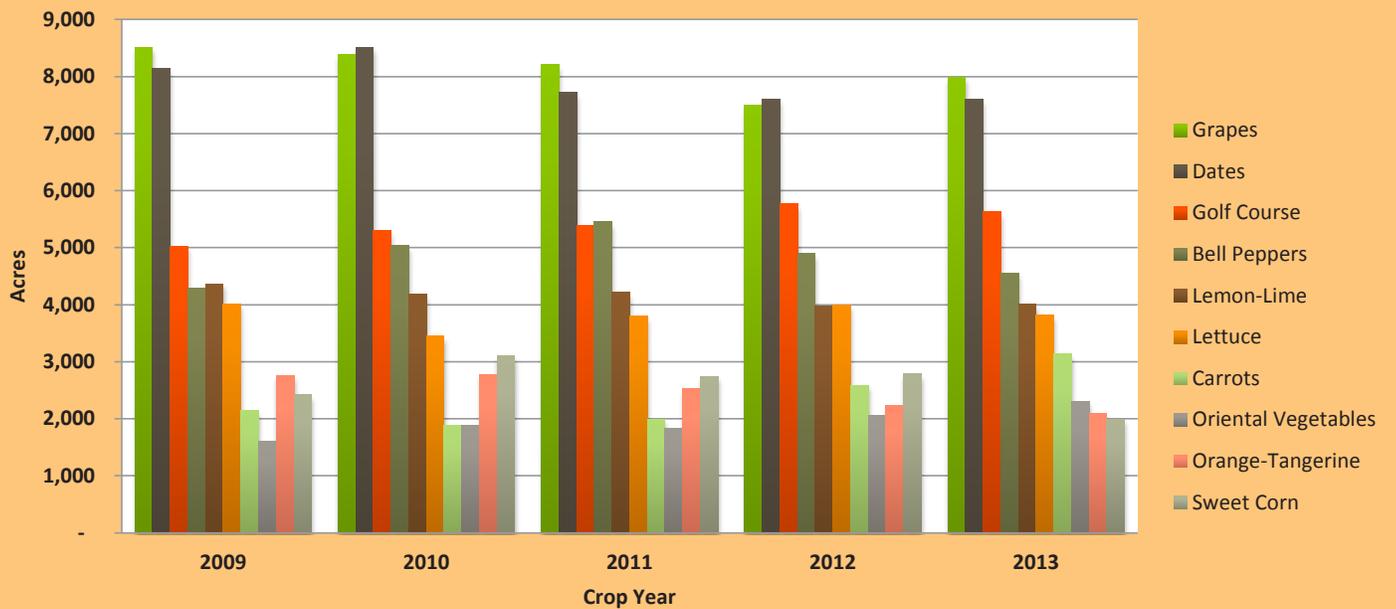
Sweet Corn



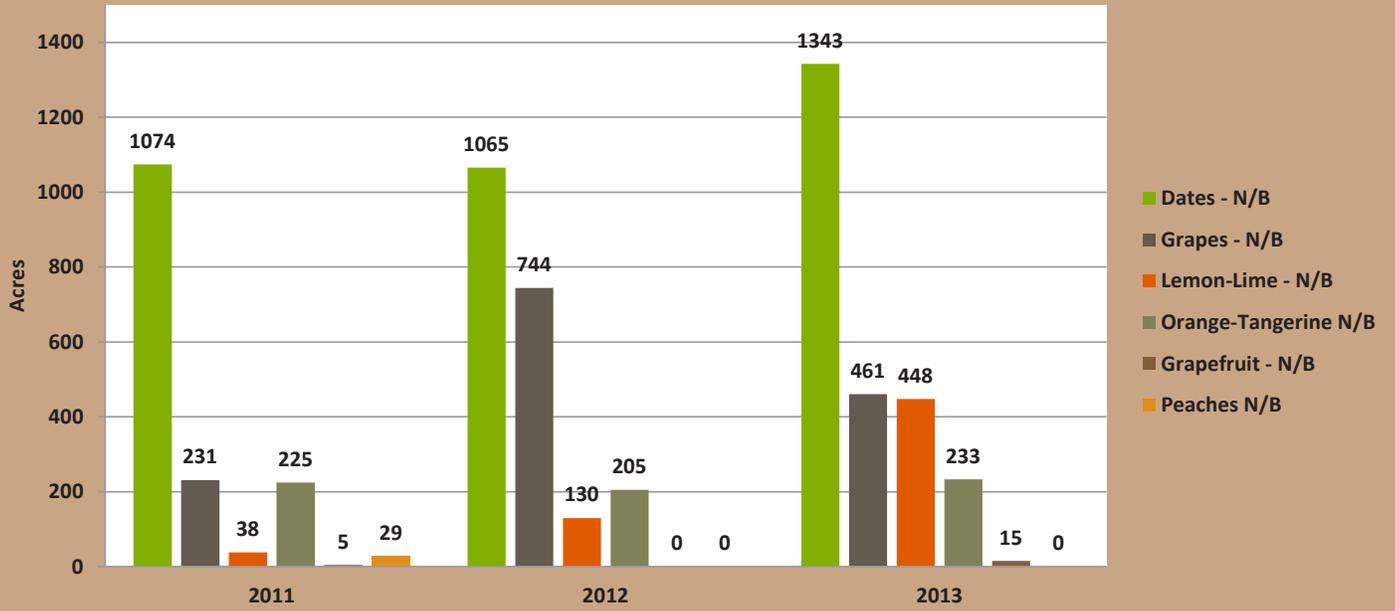
2013 Top Ten Crops by Value



2013 Top Ten Crops by Acreage



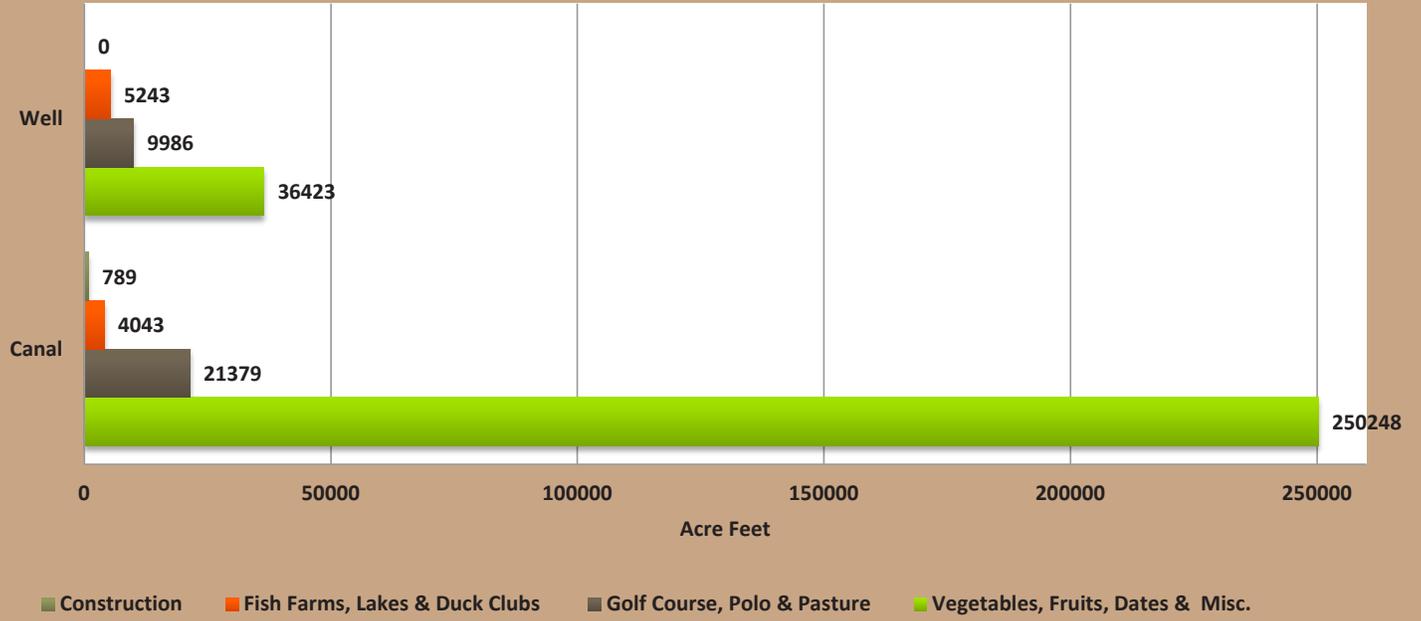
Acres Irrigated but Not Harvested



Crop Acreage by Irrigation Method



Water Consumption by Source



Potato Harvest



Celery Harvesting

FORM 7-2045

**UNITED STATES DEPARTMENT OF THE INTERIOR
Bureau of Reclamation
CROP AND WATER DATA
Year 2013**

OMB Approval No. 1006-0001
Expires: February 28, 2015

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: **75,144** | 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 **55,277** | c. Non-commercial **1,073** | d. Multi-cropped Acres **7,968**
 e. Acres irrigated by: Sprinkler: **18,771** | Drip **35,826** | Flood: **11,148** | f. Acres irrigated but not harvested **2,500** | g. Acres not Irrigated: Dry Cropped | Fallow **8,950** | Idle **7,344**
 h. Permanent Urbanization & Raw Land Acres: **62,272**

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)		Bu			54 Rice		Cwt		
51 Barley (feed)		Bu			56 Sorghums (sorgo, kaffir, milo, ect.)		Cwt		
52 Corn	80	Bu	857.75	68,620	57 Wheat		Bu		
53 Oats		Bu			58 Other Cereals (specify)		Bu		
FORAGE									
61 Alfalfa hay	620	Ton	7.0	4,340.0	Silage (sorgo, kaffir, milo, etc.)		Ton		
62 Other hay (Sudan)	260	Ton	5.0	1,300.0	Other forage (specify)		Ton		
63 Irrigated pasture	1,586	AUM	8.75	13,877.5					
MISCELLANEOUS FIELD CROPS									
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	7,057	Ton	105	740,985
VEGETABLES									
101 Asparagus		Cwt			117 Onions, dry		Cwt		
102 Beans, (processing)		Ton			118 Onions, green	247	Cwt	996.80	246,210
103 Beans, (fresh market)	1,075	Cwt	136.92	147,189	119 Peas, green(processing)		Cwt		
104 Broccoli	993	Cwt	135.93	134,978	120 Peas, green (fresh market)		Cwt		
105 Cabbage	14	Cwt	341.50	4,781	121 Peppers (all kinds)	4,642	Cwt	356.40	1,654,409
106 Carrots	3,141	Cwt	754.00	2,368,314	122 Potatoes, early	1,402	Cwt	149.00	208,898
107 Cauliflower	1,125	Cwt	183.08	205,965	124 Squash	252	Cwt	7980.00	2,010,960
108 Celery	574	Cwt	726.00	416,724	100 Sweet Potatoes		Cwt		
109 Corn, sweet (processing)		Cwt			125 Tomatoes (canning)		Ton		
110 Corn, sweet (fresh market)	1,995	Ton	191.70	416,724	126 Tomatoes (fresh market)	222	Cwt	361.00	80,142
111 Cucumbers		Cwt			127 Other vegetables (specify)artichoke	579	Cwt	149.96	86,827
112 Greens, (b.choy spinach, O.veg.etc.)	3,590	Cwt	244.604	878,128	egg plant	396	Cwt	327.80	129,809
113 Lettuce	3,823	Cwt	327.25	1,251,077	okra	1006	Cwt	80.00	80,480
					radishes	334	Cwt	352.80	117,835
					spices	1,354	Cwt	405.44	548,966

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)	1,487		22195.0	33,003,935	138	Fish farm	157	Ton	5.09	799
						139	Duck ponds	757	Lb	4.40	3331
SEED CROPS											
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		
FRUITS											
161	Apples		Lb			165	Grapefruit	894	Cwt	301.58	269,613
162	Apricots		Ton			115	Honey Ball, Honeydew, ect.		Cwt		
158	Avocados		Ton			166	Lemons and Limes	4,014	Cwt	300.58	1,206,528
163	Berries,		Lb			171	Olives	83	Ton	6.02	500
114	Cantaloupe		Cwt			167	Oranges and Tangerines	2,096	Ton	6.93	14,525
164	Cherries		Ton			172	Peaches	106	Lb	10032.00	1,063,392
168	Dates	7,600	Ton	3.15	23,940	173	Pears		Ton		
159	Figs	159	Ton	8.40	1,336	174	Prunes and Plums		Ton		
169	Grapes, table	7,992	Ton	7.88	63,009	160	Strawberries	580	Cwt	438.12	254,110
176	Grapes, raisin		Ton			116	Watermelon	819	Cwt	960.00	786,240
177	Grapes, wine		Ton			175	Other fruits (specify) Mangoes	134	Cwt	152.80	18,030
170	Grapes, other		Ton								
NUTS											
181	Almonds		Lb			183	Walnuts		Lb		
182	Pecans		Lb			184	Other nuts (specify)		Lb		
180	Pistachios		Lb								

SECTION IV - MONTHY 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	16,897.4	464.0	1,335.6	650.7	10.8	2,826.6	11,560.1		
202	February	19,460.1	279.3	2,610.8	647.5	3.7	2,667.2	13,184.0		
203	March	26,525.3	368.7	411.5	653.2	0.0	5,530.8	19,466.7		
204	April	31,531.7	300.9	1,368.4	867.4	4.6	5,429.5	23,425.4		
205	May	34,679.5	247.9	825.6	1,106.4	2.8	5,831.1	26,500.8		
206	June	34,747.0	279.9	370.6	1,410.9	5.5	6,090.2	26,400.7		
207	July	34,812.4	258.3	-150.4	1,544.9	3.1	6,317.5	26,706.6		
208	August	34,247.1	432.0	-637.7	1,384.9	0.0	6,039.5	26,901.5		
209	September	28,255.0	362.6	816.4	1,417.4	5.7	4,623.8	20,930.9		
210	October	27,570.7	343.5	539.9	898.4	2.6	4,917.4	20,765.8		
211	November	26,440.1	375.2	353.4	588.9	6.1	4,734.8	20,305.4		
212	December	21,887.9	429.1	2,236.0	636.9	18.6	4,473.4	15,357.9		
213	TOTAL PROJECT WATER	337,054.2	4,141.4	10,080.3	11,807.5	63.5	59,481.8	251,505.8		
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)	337,054.2	4,141.4	10,080.3	11,807.5	63.5	59,481.8	251,505.8		



Planted but non-bearing grapes

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

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

