



2014 CROP REPORT

OUR CROPS, OUR PEOPLE



Table of Contents

1	Agricultural Commissioner's Letter	Agricultural Commissioner Eric Lauritzen
2	Monterey County's Top Multi-Million Dollar Crops	Assistant Agricultural Commissioner Robert Roach
3	Gross Production Value	Chief Deputy Agricultural Commissioner Teo Gonzalez Richard Ordonez Karen Stahlman
4	Monterey County's Major Crop Trends	Agricultural Resources and Policy Manager Christina McGinnis
5	Vegetable Crops	Deputy Agricultural Commissioner Kenneth Allen, Cara Brents, Heather Healy, Graham Hunting, Casey McSwiggin, David Sanford
8	Lettuce Production	Deputy Sealer of Weights and Measures Larry Simon
9	Our Labor Force Is Critical <i>by Jim Bogart</i>	Agricultural Programs Biologist Hannah Wallis
	Fruit & Nut Crops	Administration Emmett Ashurst, Kelly Roberts, Sheila Salazar
10	Faces of Agriculture	Administration Services Staff Juanita Adame, Ericka Esquivel, Marc Gomes, Kimberly Jones, Dolores Mariscal, Kathleen Nielsen, Daniel Sanchez, Karla Tinajero, Lourdez Vigil-Ramirez
12	Wine Grape Production	Agricultural Inspectors Brianna Allen, Sidney Asercion, Guillermo Bravo, Ronnie Capili, Noralyn Carlton, Nathan Desjarlais, Diana Devlin, Priscilla Du, Brandon Gates, Yvette Hilber, Jimmy Hueck, Paul Josselyn, Tim Lewis, Paulina Mejia, Robert Milner, Sergio Moreno, Shayla Neufeld, Francisco Paredes, Yvonne Perez, Erin Phillips, Daniel Prakash, Ivan Ramirez, Lucia Rocha, Javier Santoyo, Bruce Tanner, Tim Taylor, A.J. Valderama, Becky White
13	New Farmworker Advisory Committee <i>by Juan Uranga and Eric Lauritzen</i>	Weights & Measures Inspectors Veronica Arroyo, Daniel Marien, Glenn Sakasegawa, Joseph Woodbury
14	Field Crops	Produce Inspectors Celia Cervantes, Danny Garcia, Danny Mallobox, Jr., Danny Mallobox III
	Livestock & Poultry	Agricultural Aides Giovani Borghezani, Peter Gachot, Aaron Gomez, Manuel Mendoza, Sylvia Rodriguez, Esteban Valdez
15	Seed Production	
	Apiary Production	
16	Cut Flowers & Cut Foliage	
17	Nursery Products	
18	Produce Exports by Commodity	
19	Agricultural Exports Trade Partners	
20	Organic Production in Monterey County	
	Division of Weights and Measures	
21	Summary of Pest Management Activities	

Special thanks go to all of the dedicated workers who agreed to be interviewed for this year's crop report. Without all of the hard work of the labor force in this region, the success of agriculture in Monterey County would not be possible. Thanks also to Rob Milner for contributing the majority of photos used in this report.

Scan here to learn more about the **Faces of Agriculture**



Printed on paper made with 60% post-consumer waste
Printed with vegetable-based, low VOC (Volatile Organic Compound) inks
Designed by Moxxy Marketing | www.getmoxxy.com

Monterey County Agricultural Commissioner

Karen Ross, Secretary
California Department of Food & Agriculture and
The Honorable Board of Supervisors of Monterey County

Simón Salinas District 3, Chair
Jane Parker District 4, Vice Chair
Fernando Armenta District 1
John M. Phillips District 2
Dave Potter District 5



ERIC LAURITZEN
Agricultural Commissioner

It is a pleasure to present the 2014 Monterey County Crop Report that is prepared pursuant to the provisions of Section 2279 of the California Food & Agriculture Code. This report reflects a production value of \$4.49 billion for Monterey County, which is an increase of 6.5%, or \$277 million, over the previous year.

The 2014 report set another all-time crop production record, just as 2013 had set the previous record. While values were only marginally higher in 2014, the challenges facing many growers last year made this accomplishment noteworthy.

Crop values vary from year to year based on production, market and weather conditions. There was a high degree of fluctuation in many crop values in 2014 in comparison to 2013. Leaf lettuce and head lettuce values increased 18% on better pricing. Leaf lettuce regained the top crop spot at more than \$775 million dollars. The value of the strawberry crop increased approximately 5% from 2013. However, the method for calculating values improved and strawberry values were adjusted for 2013 and 2014 to reflect the change. Spinach and spring mix values increased by 29% and 26%, respectively, on higher production and pricing. Nursery production value declined 8% with a reduction of 137 acres. Drought conditions affected nurseries as well as barley, beans and oats. Cattle value dropped 10% with higher prices partially offsetting much lower production due to lack of forage. Avocados decreased by 59% following a heavy crop in 2013 and lemons increased by 89% on higher production and better pricing.

It is always important to note that the figures provided here are gross values and do not represent or reflect net profit or loss experienced by individual growers or by the industry as a whole. Growers neither have control over input costs, such as fuel, fertilizers and packaging, nor can they significantly affect market prices. The fact that the gross value of agriculture is holding steady reflects positively on the diversity and strength of our agriculture industry.

This report is our yearly opportunity to recognize the growers, shippers, ranchers and other businesses ancillary to, and supportive of, agriculture. As such, we would like to extend our thanks to members of the industry for their continued effort to provide vital information that enables the compilation of the Monterey County Crop Report. While we continually strive to improve upon this information, without their assistance this report would not be possible.

This year we chose to profile some of the people who work each day to support our agricultural industry. The profiles of these dedicated, hardworking individuals include links to video interviews in their workplaces (see <http://ag.co.monterey.ca.us/>). We have also included articles on labor and our newly formed Farmworker Advisory Committee.

Special recognition for the production of this report goes to Shayla Neufeld, Christina McGinnis, Graham Hunting and all of the staff who assisted in compiling this information and improving the quality of the report.

Respectfully submitted,



Eric Lauritzen
Agricultural Commissioner



COUNTY OF MONTEREY AGRICULTURAL COMMISSIONER

1428 Abbott St., Salinas, CA 93901 • tel (831) 759-7325 • fax (831) 759-2268 • ag.co.monterey.ca.us



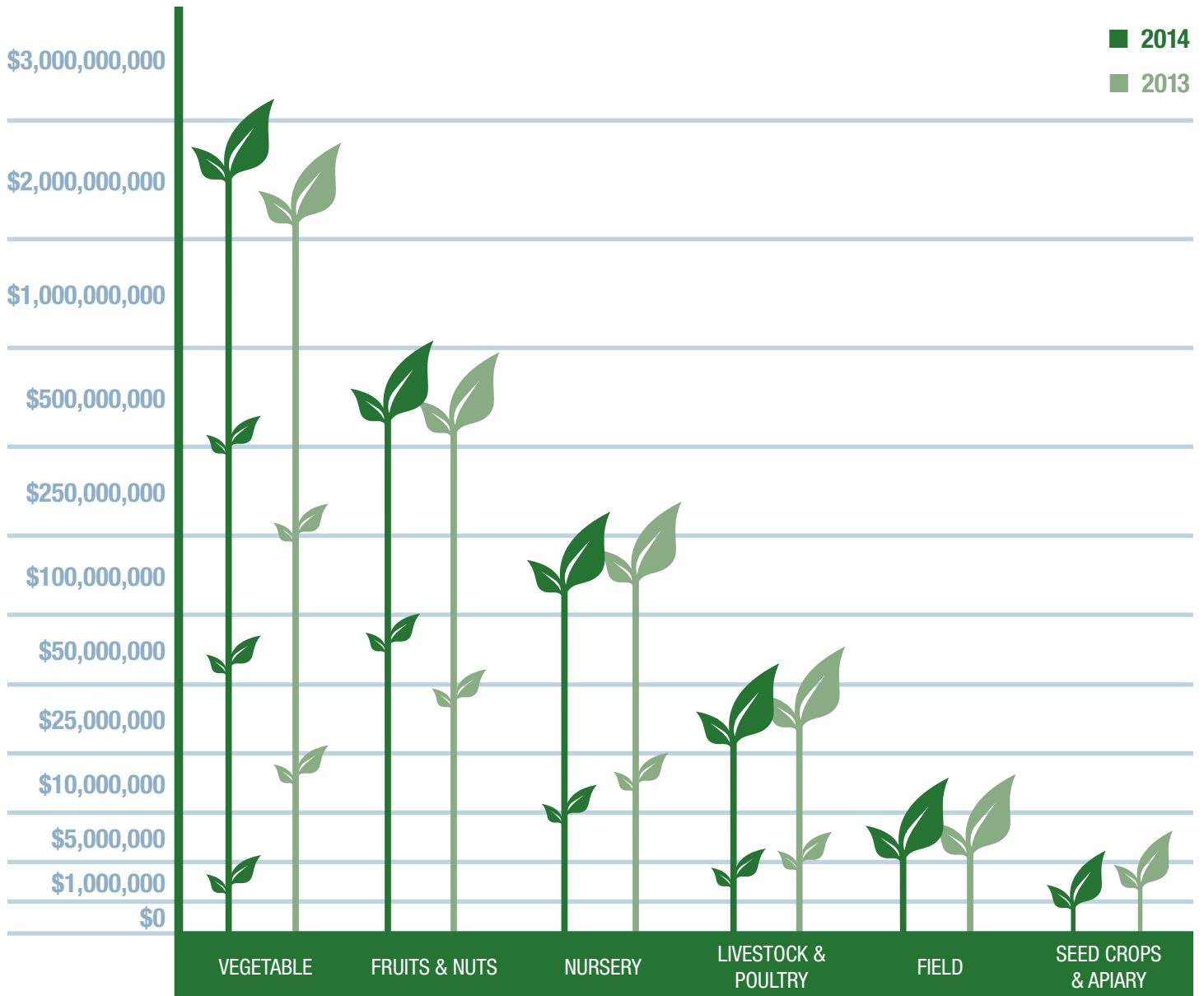


Monterey County's Top Multi-Million Dollar Crops

CROP	2014 CROP VALUE	2014 CROP RANKING	2013 CROP RANKING
Leaf Lettuce	\$775,432,000	1	2
Strawberry	\$709,296,000	2	1
Head Lettuce	\$651,136,000	3	3
Broccoli	\$412,084,000	4	4
Nursery	\$286,577,000	5	5
Wine Grapes	\$247,357,000	6	6
Cauliflower	\$188,173,000	7	9
Celery	\$180,685,000	8	7
Misc. Vegetables	\$159,702,000	9	8
Spinach	\$157,834,000	10	10
Mushrooms	\$106,283,000	11	11
Spring Mix	\$88,256,000	12	13
Salad Products	\$64,834,000	13	12
Beef Cattle	\$54,095,000	14	17
Cabbage	\$47,756,000	15	15
Raspberries	\$44,986,000	16	16
Artichokes	\$40,650,000	17	14
Kale	\$31,112,000	18	20
Lemon	\$28,067,000	19	26
Onions, Green	\$26,180,000	20	22
Peas	\$24,331,000	21	18
Carrots	\$21,555,000	22	19
Onions, Dry	\$18,000,000	23	25
Rangeland	\$17,014,000	24	23
Asparagus	\$16,745,000	25	24
Parsley	\$11,358,000	26	—



Gross Production Value



CATEGORIES	2014	2013
Vegetable Crops	\$3,098,138,000	\$2,833,775,000
Fruit & Nuts	\$1,033,798,000	\$964,050,000*
Nursery Crops	\$286,577,000	\$312,346,000
Livestock & Poultry	\$64,286,000	\$76,504,000*
Field Crops	\$18,724,000	\$19,990,000
Seed Crops & Apiary	\$5,466,000	\$8,998,000
TOTAL	\$4,493,428,000	\$4,215,663,000*

*Adjusted figure



Monterey County's Major Crop Trends

CROP		1994	2004	2014
Artichokes	Acre	6,680	6,183	4,996
	Value	\$35,832,000	\$48,210,000	\$40,650,000
	CPI Adjusted*	\$57,240,000	\$60,414,000	\$40,650,000
Broccoli	Acre	57,210	42,802	63,561
	Value	\$271,847,000	\$237,492,000	\$412,084,000
	CPI Adjusted	\$434,260,000	\$342,515,000	\$412,084,000
Cauliflower	Acre	23,174	14,520	17,566
	Value	\$114,482,000	\$92,899,000	\$188,173,000
	CPI Adjusted	\$182,879,000	\$116,415,000	\$188,173,000
Celery	Acre	7,857	9,504	12,597
	Value	\$69,371,000	\$93,362,000	\$180,685,000
	CPI Adjusted	\$110,816,000	\$116,995,000	\$180,685,000
Grapes (Wine)	Acre	31,247	38,614	45,993
	Value	\$89,335,000	\$174,380,000	\$247,357,000
	CPI Adjusted	\$142,708,000	\$218,431,000	\$247,357,000
Head Lettuce	Acre	73,347	68,686	44,208
	Value	\$370,276,000	\$307,823,000	\$651,136,000
	CPI Adjusted	\$591,495,000	\$385,743,000	\$651,136,000
Leaf Lettuce	Acre	35,120	92,580	64,949
	Value	\$139,011,000	\$411,014,000	\$775,432,000
	CPI Adjusted	\$222,062,000	\$515,055,000	\$775,432,000
Mushrooms	Pounds	39,509,000	47,148,000	47,028,000
	Value	\$39,904,000	\$59,981,000	\$106,283,000
	CPI Adjusted	\$63,744,000	\$75,164,000	\$106,283,000
Nursery Products	Acre	1,802	1,909	1,236
	Value	\$105,514,000	\$261,203,000	\$286,577,000
	CPI Adjusted	168,553,000	327,322,000	\$286,577,000
Spinach	Acre	5,640	14,115	13,959
	Value	\$50,667,000	\$156,518,000	\$157,834,000
	CPI Adjusted	\$80,978,000	\$196,138,000	\$157,834,000
Strawberries	Acre	6,995	8,807	11,054
	Value	\$231,735,000	\$317,072,000	\$709,296,000
	CPI Adjusted	\$370,184,000	\$397,333,000	\$709,296,000

TOTAL OF MAJOR CROPS ABOVE	Acre	249,072	297,720	280,119
	Value	\$ 1,517,974,000	\$ 2,159,954,000	\$3,755,507,000
	CPI Adjusted	\$ 2,424,919,000	\$ 2,751,525,000	\$3,755,507,000

* Consumer Price Index Conversion Factors from <http://oregonstate.edu/cla/polisci/sites/default/files/faculty-research/sahr/inflation-conversion/pdf/cv2014.pdf>





Vegetable Crops

CROP ¹	YEAR	ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL ²
Anise	2014	699	17.21	12,000	ton	\$756.00	\$9,072,000
	2013	750	17.49	13,100	ton	\$697.77	\$9,141,000
Artichokes	2014	4,996	5.42	27,100	ton	\$1,500.00	\$40,650,000
	2013	5,203	5.54	28,800	ton	\$1,645.47	\$47,390,000
Asparagus	2014	2,130	4.16	8,860	ton	\$1,890.00	\$16,745,000
	2013	2,156	4.18	9,010	ton	\$1,885.25	\$16,986,000
Bok Choy	2014	411	20.58	8,460	ton	\$456.00	\$3,858,000
	2013	450	18.03	8,110	ton	\$392.52	\$3,183,000
Broccoli, Bulk ³	2014	N/A	N/A	114,000	ton	\$781.00	\$89,034,000
	2013	N/A	N/A	111,000	ton	\$744.76	\$82,668,000
Fresh	2014	47,945	7.30	350,000	ton	\$923.00	\$323,050,000
	2013	51,030	7.63	389,000	ton	\$885.00	\$344,265,000
Total	2014	63,561	N/A	N/A	N/A	N/A	\$412,084,000
	2013	65,577	N/A	N/A	N/A	N/A	\$426,933,000
Cabbage, Bulk	2014	N/A	N/A	69,800	ton	\$220.00	\$15,356,000
	2013	N/A	N/A	85,100	ton	\$196.17	\$16,694,000
Fresh	2014	3,261	22.99	75,000	ton	\$432.00	\$32,400,000
	2013	3,780	21.19	80,100	ton	\$354.97	\$28,433,000
Cabbage, Total	2014	6,297	N/A	N/A	N/A	N/A	\$47,756,000
	2013	7,791	N/A	N/A	N/A	N/A	\$45,127,000

1 Organic production included.

2 Totals may not calculate due to rounding.

3 Bulk may include one or more of the following: Food Service, Processing and/or Value Added.



Vegetable Crops (continued)

CROP	YEAR	ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Carrots, Bulk	2014	N/A	N/A	34,800	ton	\$248.00	\$8,630,000
	2013	N/A	N/A	37,200	ton	\$285.90	\$10,635,000
Fresh	2014	1,424	21.58	30,700	ton	\$421.00	\$12,925,000
	2013	1,489	21.72	32,300	ton	\$424.02	\$13,696,000
Carrots, Total	2014	3,036	N/A	N/A	N/A	N/A	\$21,555,000
	2013	3,192	N/A	N/A	N/A	N/A	\$24,331,000
Cauliflower, Bulk	2014	N/A	N/A	26,500	ton	\$682.00	\$18,073,000
	2013	N/A	N/A	22,100	ton	\$663.19	\$14,656,000
Fresh	2014	14,683	9.19	135,000	ton	\$1,260.00	\$170,100,000
	2013	18,512	8.93	165,000	ton	\$900.99	\$148,663,000
Cauliflower, Total	2014	17,566	N/A	N/A	N/A	N/A	\$188,173,000
	2013	20,987	N/A	N/A	N/A	N/A	\$163,319,000
Celery, Bulk	2014	N/A	N/A	35,000	ton	\$384.00	\$13,440,000
	2013	N/A	N/A	37,100	ton	\$359.17	\$13,289,000
Fresh	2014	11,592	34.80	403,000	ton	\$415.00	\$167,245,000
	2013	12,600	38.12	480,000	ton	\$425.34	\$204,163,000
Celery, Total	2014	12,597	N/A	N/A	N/A	N/A	\$180,685,000
	2013	13,570	N/A	N/A	N/A	N/A	\$217,452,000
Chard	2014	627	9.35	5,860	ton	\$987.00	\$5,784,000
	2013	666	9.37	6,240	ton	\$962.38	\$6,005,000
Cilantro	2014	1,565	5.29	8,280	ton	\$1,170.00	\$9,688,000
	2013	1,314	5.15	6,770	ton	\$1,128.47	\$7,640,000
Herbs ⁴	2014	89	7.52	669	ton	\$2,690.00	\$1,800,000
	2013	105	7.58	796	ton	\$2,642.00	\$2,103,000
Kale	2014	2,553	12.25	31,300	ton	\$994.00	\$31,112,000
	2013	1,963	13.21	25,900	ton	\$858.17	\$22,227,000
Leeks	2014	329	12.99	4,270	ton	\$1,500.00	\$6,405,000
	2013	317	12.88	4,080	ton	\$1,141.39	\$4,657,000
Lettuce, Total ⁵	2014	109,157	N/A	N/A	N/A	N/A	\$1,426,568,000
	2013	109,688	N/A	N/A	N/A	N/A	\$1,210,274,000
Misc. Vegetables, Bulk	2014	N/A	N/A	138,000	ton	\$645.00	\$89,010,000
	2013	N/A	N/A	147,000	ton	\$617.05	\$90,706,000
Fresh	2014	8,468	6.47	54,800	ton	\$1,290.00	\$70,692,000
	2013	12,531	4.22	52,900	ton	\$1,942.47	\$102,757,000
Misc. Vegetables, Total ⁶	2014	29,797	N/A	N/A	N/A	N/A	\$159,702,000
	2013	40,214	N/A	N/A	N/A	N/A	\$193,463,000

4 Includes: Oregano, Rosemary, Sage and Thyme.

5 See Lettuce Production, page 8.

6 Includes: Arugula, Beets, Broccolini, Brussels Sprouts, Cactus Pears, Cardone, Chicory, Corn, Cucumbers, Fava Beans, Frisee, Garlic, Mache, Potato, Pumpkins, Radicchio and Rappini.



Vegetable Crops (continued)

CROP	YEAR	ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Mushrooms	2014	155	N/A	47,028,000	lbs	\$2.26	\$106,283,000
	2013	135	N/A	32,965,000	lbs	\$2.17	\$71,534,000
Napa	2014	550	33.63	18,500	ton	\$498.00	\$9,213,000
	2013	617	32.62	20,100	ton	\$357.83	\$7,192,000
Onions, Dry	2014	1,875	40.00	75,000	ton	\$240.00	\$18,000,000
	2013	1,897	38.37	72,800	ton	\$219.63	\$15,989,000
Onions, Green	2014	1,005	15.32	15,400	ton	\$1,700.00	\$26,180,000
	2013	984	15.01	14,800	ton	\$1,280.89	\$18,957,000
Parsley	2014	670	18.21	12,200	ton	\$931.00	\$11,358,000
	2013	519	18.07	9,380	ton	\$903.59	\$8,476,000
Peas ⁷	2014	1,485	N/A	N/A	N/A	N/A	\$24,331,000
	2013	1,631	N/A	N/A	N/A	N/A	\$26,737,000
Peppers ⁸	2014	1,144	20.38	23,300	ton	\$359.00	\$8,365,000
	2013	1,330	19.36	25,800	ton	\$372.52	\$9,611,000
Radish	2014	166	14.98	2,490	ton	\$505.00	\$1,257,000
	2013	150	14.37	2,160	ton	\$528.51	\$1,142,000
Salad Products	2014	N/A	N/A	154,000	ton	\$421.00	\$64,834,000
	2013	N/A	N/A	168,000	ton	\$420.10	\$70,577,000
Spinach, Bulk	2014	N/A	N/A	127,000	ton	\$1,090.00	\$138,430,000
	2013	N/A	N/A	113,000	ton	\$920.00	\$103,960,000
Fresh	2014	1,509	10.20	15,400	ton	\$1,260.00	\$19,404,000
	2013	1,540	10.43	16,100	ton	\$1,162.50	\$18,716,000
Spinach, Total	2014	13,959	N/A	N/A	N/A	N/A	\$157,834,000
	2013	12,317	N/A	N/A	N/A	N/A	\$122,676,000
Spring Mix	2014	8,060	9.78	78,800	ton	\$1,120.00	\$88,256,000
	2013	7,664	9.14	70,000	ton	\$1,002.00	\$70,140,000
Squash	2014	247	11.01	2,700	ton	\$593.00	\$1,601,000
	2013	296	10.55	3,120	ton	\$693.90	\$2,165,000
Tomatoes	2014	574	17.92	10,300	ton	\$527.00	\$5,428,000
	2013	735	18.84	13,800	ton	\$604.94	\$8,348,000

VEGETABLE CROPS TOTAL

2014	287,700	\$3,098,138,000
2013	302,218	\$2,833,775,000

⁷ Includes: Bulk.

⁸ Includes: Bell and Chili Peppers.



Lettuce Production

CROP	YEAR	ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
HEAD LETTUCE							
Spring	2014	12,208	—	—	—	—	—
	2013	12,315	—	—	—	—	—
Summer	2014	10,441	—	—	—	—	—
	2013	11,911	—	—	—	—	—
Fall	2014	12,733	—	—	—	—	—
	2013	14,305	—	—	—	—	—
Naked Pack	2014	N/A	N/A	6,131,000	ctn*	\$17.40	\$106,679,000
	2013	N/A	N/A	7,358,000	ctn	\$12.28	\$90,356,000
Wrapped Pack	2014	N/A	N/A	23,437,000	ctn	\$16.50	\$386,711,000
	2013	N/A	N/A	23,388,000	ctn	\$13.49	\$315,504,000
Head Lettuce, Bulk	2014	N/A	N/A	366,000	ton	\$431.00	\$157,746,000
	2013	N/A	N/A	348,000	ton	\$416.00	\$144,768,000
Head Lettuce, Total	2014	44,208	1,000	44,208,000	ctn	\$14.70	\$651,136,000
	2013	44,680	1,000	44,680,000	ctn	\$12.32	\$550,628,000
LEAF LETTUCE							
Butter Leaf Lettuce	2014	728	1,230	895,000	ctn	\$9.19	\$8,225,000
	2013	810	1,229	995,000	ctn	\$8.61	\$8,567,000
Endive	2014	250	1,250	313,000	ctn	\$11.76	\$3,681,000
	2013	403	1,065	429,000	ctn	\$10.13	\$4,346,000
Escarole	2014	210	1,250	263,000	ctn	\$11.97	\$3,148,000
	2013	376	1,052	396,000	ctn	\$10.14	\$4,015,000
Green Leaf Lettuce	2014	7,907	1,044	8,255,000	ctn	\$9.85	\$81,312,000
	2013	7,813	1,043	8,149,000	ctn	\$9.27	\$75,541,000
Red Leaf Lettuce	2014	2,076	1,040	2,159,000	ctn	\$8.74	\$18,870,000
	2013	2,053	1,047	2,149,000	ctn	\$8.54	\$18,352,000
Romaine Lettuce	2014	39,602	1,010	39,998,000	ctn	\$12.19	\$487,576,000
	2013	38,793	1,021	39,608,000	ctn	\$9.63	\$381,425,000
Leaf Lettuce, Bulk	2014	N/A	N/A	274,000	ton	\$630.00	\$172,620,000
	2013	N/A	N/A	270,000	ton	\$620.00	\$167,400,000
Leaf Lettuce, Total	2014	64,949	N/A	68,007,000	ctn	\$11.40	\$775,432,000
	2013	65,008	N/A	67,608,000	ctn	\$9.76	\$659,646,000
LETTUCE CROPS TOTAL	2014	109,157		112,215,000	CTN		\$1,426,568,000
	2013	109,688		112,288,000	CTN		\$1,210,274,000

*Carton



Our Labor Force Is Critical > by Jim Bogart



The breadth of the labor force needed to sustain our agricultural industry is astounding. Our farmers face a critical shortage of experienced workers, which negatively impacts the economic competitiveness of our local industry. Every farm worker engaged in high-value, labor-intensive crop production sustains two to three off-farm but farm-dependent jobs.

Without immigrant workers, U.S. economic output would decline. Each of the 1.6 million hired farm employees working on American farms and ranches supports two to three full-time jobs in food processing, transportation, farm equipment, marketing, retail and other sectors. Without farm labor, thousands of U.S. workers on farms and in other occupations stemming from the agricultural products produced by immigrant

workers would lose those jobs.

It is critical that the people who plant, care for and harvest our food are appreciated. Many do not understand that without immigrant workers, there simply would not be a U.S. agricultural product on our dinner plates.

Raising public awareness and clearing up the misunderstandings around farmworker labor is key to solving the immigration reform puzzle. They are not taking jobs away from others; in fact, any farmer will tell you that they would gladly hire any people willing and able to do this work. It is difficult, highly skilled and fast-paced work that most cannot handle for more than an hour or two.

Each year the Grower Shipper Association's *AgKnowledge* class helps to educate our local

leaders about the challenges agricultural laborers face. During one of the class sessions, participants don a hair net, take a cart into the fields and pick strawberries for 20 minutes. Everyone who tries it cannot believe how hard it is and our workers do this for hours on end, under all weather conditions.

It is my hope that the next time you eat a fruit or vegetable, you pause and think about the hands that planted it, picked it and placed these affordable, nutritious products in the basket, carton or package.

Fruit & Nut Crops

CROP	YEAR	ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Avocados	2014	229	2.51	575	ton	\$2,120.00	\$1,219,000
	2013	237	6.01	1,420	ton	\$2,113.90	\$3,002,000
Grapes (Wine) ⁹	2014	45,993	4.35	200,000	ton	\$1,240.00	\$247,357,000
	2013	42,986	4.31	185,000	ton	\$1,226.93	\$226,982,000
Lemons	2014	1,284	29.99	38,500	ton	\$729.00	\$28,067,000
	2013	1,239	28.73	35,600	ton	\$417.29	\$14,856,000
Misc. Fruit ¹⁰	2014	153	5.78	884	ton	\$3,250.00	\$2,873,000
	2013	182	6.72	1,220	ton	\$1,204.82	\$1,470,000
Raspberries	2014	782	9.00	7,040	ton	\$6,390.00	\$44,986,000
	2013	742	9.00	6,680	ton	\$6,555.56	\$43,791,000
Strawberries	2014	11,054	34.70	384,000	ton	\$1,800.00	\$691,200,000
	2013	10,980	36.19	397,000	ton	\$1,669.20*	\$662,672,000*
Processing	2014	N/A	N/A	29,000	ton	\$624.00	\$18,096,000
	2013	N/A	N/A	21,700	ton	\$519.67	\$11,277,000
Strawberries Total	2014	11,054	N/A	413,000	ton	N/A	\$709,296,000
	2013	10,980	N/A	419,000	ton	N/A	\$673,949,000

FRUIT & NUT CROPS TOTAL	2014	59,495	}	\$1,033,798,000
	2013	56,366		

9 Represents Bearing Acres only; see Wine Grape Production, pages 12-13.
 10 Includes: Apples, Blackberries, Blueberries, Kiwi, Loganberries, Olallieberries, Olives and Walnuts.
 *Adjusted figure



Faces of Agriculture



ALBERT ALVARADO FIELD SUPERVISOR

Albert is a field supervisor for Mann Packing Company, responsible for their Broccolini® harvest. He grew up in the Salinas Valley and is a son of immigrant farmworkers. He was inspired to work in agriculture because of his parents and wants to contribute to the industry by helping farmworkers. He observed how hard his parents had to work and now hopes to make laborers' lives a little easier. He has worked for Mann Packing for thirteen years. He started as a loader of cut product, then was promoted to an inventory manager, then a dispatcher for trucks carrying produce, then a foreman assisting the field supervisor and finally to his current position as a field supervisor.



ARLIN VALENZUELA QUALITY ASSURANCE MANAGER

Arlin is a quality assurance manager for Ocean Mist, responsible for overseeing coordination of several departments to ensure products meet both Ocean Mist's internal specifications as well as those of the buyers. She is the daughter of farmworkers and has worked in the fields herself harvesting grapes and peppers. She earned a college degree at California State University, San Marcos, and now works hard to constantly communicate with growers, harvesting managers and sales managers to address issues such as labor shortages, product quality and delivery.



FRANK HEWITT DISPATCHER

Frank is a dispatcher who has been working at Uni-Kool in Salinas for 20 years, and for another cooler company at the same location prior to that, for a total of more than 38 years in the cooling business. He explained that many Uni-Kool workers are first generation immigrants who now live in the local area. Frank coordinates with truck drivers who pick up loads of fresh produce from the cooler each day and deliver it throughout the U.S. He explained how the cooler and cooling technologies help keep crops fresh and ready for market while they are stored prior to being transported to their place of sale.



GRACIELA VEGA MARQUEZ FARM LABORER

Graciela is an immigrant farm laborer who has worked in the strawberry fields for 10 years. She is a volunteer for the Center for Community Advocacy and is currently collaborating with the Agricultural Commissioner's Office as a member of the Farmworker Advisory Committee to find better ways to protect and educate farmworkers. She hopes, through her volunteerism and input on the committee (see article on page 13), to help raise awareness and make progress on the issues farmworkers face, such as information on pesticides, worker safety, housing and general knowledge of resources available.



NAIN PRADO VINEYARD ASSISTANT

Nain has been working for Bernardus Vineyards for more than 20 years, assisting the main vintner with all aspects of vineyard management, including managing other workers, preparing fields and pruning vines, reducing vineyard erosion using cover crops, trimming vines after bud break, and overseeing grape harvest and truck transport. Nain was born in Mexico and came to the U.S. in 1987. He is now a legal citizen and is proud that his daughter just graduated from college (the first in his family). He enjoys his job working the vines and is the third longest employee working for Bernardus vineyards. While he commutes over two hours to get to his job each day, he still loves it.



SANTOS GARCIA & MANUELA RODRIGUEZ SEED PRODUCERS

Santos and Manuela are sisters who have worked together in the lettuce seed industry for almost 30 years, carefully tending plants used to propagate new strains. They work to ensure their company, 3 Star Lettuce, LLC, has healthy seeds to plant in the fields. They also create new strains of plants, patiently waiting to pollinate buds by hand when the plants are ready, and their flowers are open and blooming. They take pride in every aspect of their jobs, working closely together, sometimes rising at 3 a.m. to start their days which is truly a labor of love for them.





Wine Grape Production

WHITE GRAPE VARIETIES	HARVESTED ACRES	AVERAGE PRICE PER TON	TOTAL TONS	TOTAL VALUE
Chardonnay	17,564	\$1,180	73,100	\$86,258,000
Riesling	2,074	\$980	9,230	\$9,045,000
Pinot Gris	1,373	\$1,100	6,710	\$7,381,000
Sauvignon Blanc	1,024	\$970	6,740	\$6,538,000
Gewurztraminer	607	\$750	5,820	\$4,365,000
Gruner Veltliner	88	\$1,110	1,110	\$1,232,000
Muscat Canelli	188	\$990	886	\$877,000
Malvasia Bianca	140	\$1,150	543	\$624,000
Albarino	26	\$1,290	463	\$597,000
Pinot Blanc	106	\$1,200	366	\$439,000
Other Whites ¹¹	191	\$1,200	328	\$394,000
Chenin Blanc	136	\$870	353	\$307,000
Vioginier	170	\$1,870	128	\$239,000

RED GRAPE VARIETIES	HARVESTED ACRES	AVERAGE PRICE PER TON	TOTAL TONS	TOTAL VALUE
Pinot Noir	8,840	\$1,700	42,800	\$72,760,000
Merlot	5,449	\$1,050	21,600	\$22,680,000
Cabernet Sauvignon	4,609	\$1,140	17,800	\$20,292,000
Syrah/Shiraz	1,762	\$1,090	5,860	\$6,387,000
Petite Sirah	318	\$1,190	1,600	\$1,904,000
Malbec	223	\$1,060	1,520	\$1,611,000
Grenache	169	\$1,500	773	\$1,160,000
Other Reds ¹²	400	\$1,340	577	\$773,000
Gamay-Napa	30	\$1,100	367	\$404,000
Petit Verdot	161	\$1,210	324	\$392,000
Cabernet Franc	126	\$1,160	270	\$313,000
Zinfandel	184	\$1,240	164	\$203,000
Tannant	35	\$1,270	143	\$182,000

¹¹ Arneis, Grenache Blanc, Marsanne, Muscat Orange, Picpoul Blanc, Roussanne, Sauvignon Musque, Semillon, Tocai Friulano and Vermentino.

¹² Barbera, Cabernet Pfeffer, Carignane, Cinsaut, Counoise, Dornfelder, Graciano, Mourvedre/Mataro, Montepulciano, Negrette, Sangiovese, Souzao, Tempranillo, Teroldego, Touriga Nacional, Touriga Francesa, and Trousseau.



Wine Grape Production (continued)

YEAR	NONBEARING ACRES	BEARING ACRES	TOTAL TONS	VALUE
2014	2,512	45,993	200,000	\$247,357,000
2013	1,531	42,986	185,000	\$226,982,000
2012	1,936	45,130	172,000	\$214,306,000
2011	2,006	43,034	124,000	\$140,976,000
2010	2,572	43,321	177,000	\$172,916,000
2009	3,975	40,792	204,000	\$238,082,000
2008	4,006	40,144	201,000	\$238,366,000
2007	3,068	39,636	224,000	\$251,604,000
2006	3,144	38,165	210,000	\$217,983,000
2005	2,378	38,179	269,000	\$254,615,000
2004	1,036	36,614	172,000	\$174,380,000

New Farmworker Advisory Committee > by Juan Uranga and Eric Lauritzen

Many types of labor are required to complete the cycle of growing food, from farm to retail, to the table. There are people who prepare the soil, people who maintain the health of the fields, people who harvest and process the crops, and people who ship our fresh produce to the point of sale. Although this over-simplifies the chain of labor needed to continually supply fresh fruits and vegetables to the world from the fertile Salinas Valley, many jobs depend on the crops grown here.

While all aspects of agricultural production are important, it is the people who work patiently and diligently in our fields each day who are integral to the stability and success of agriculture and deserve special recognition, appreciation and protection. Working in the fields is a labor-intensive endeavor that requires honed skills.

Because the nature of this work does come with some risk, and farmworker safety and health are priority issues for our community, the Office of the Agricultural Commissioner and the Center for Community Advocacy have formed the Farmworker Advisory Committee. This group is the first of its kind, and has met since August 2014 to identify issues to be collectively addressed to help keep farmworkers safe and informed.

Having direct discussions with those in the fields, and acknowledging their influence as true “stakeholders” provides invaluable insight on their challenges and needs.

The committee meets quarterly and is still identifying priority issues, but some already being addressed include educational training

hopeful direction for all of its participants.

The Office of the Monterey County Agricultural Commissioner oversees pesticide regulations and other worker safety matters, and the Center for Community Advocacy trains farmworkers to use their collective power to strengthen their families and make



Eric Lauritzen and Juan Uranga at Kickoff Press Conference, August 2014.

on types of pesticides, field communication and coordination, and safety from the field to home. These topics are a sample of the range of items the workers would like additional information on, and focused meetings will be held in the coming year to answer their questions. The value and power of this alliance in affecting change is a new and

positive changes in their community. The Farmworker Advisory Committee will directly inform the Commissioner’s Office on policies and practices as they impact field workers in Monterey County, and will help disseminate information about resources and programs that the Commissioner’s Office can make available to the farmworker community.



Field Crops

CROP	YEAR	ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Barley, Grain	2014	3,854	0.50	1,930	ton	\$287.00	\$554,000
	2013	7,148	0.47	3,360	ton	\$280.00	\$941,000
Beans ¹³	2014	490	1.00	490	ton	\$1,120.00	\$549,000
	2013	525	1.30	683	ton	\$1,684.91	\$1,151,000
Hay, Alfalfa	2014	140	6.40	896	ton	\$280.00	\$251,000
	2013	180	6.00	1,080	ton	\$279.94	\$302,000
Misc. Field Crops ¹⁴	2014	1,200	1.54	1,850	ton	\$87.30	\$162,000
	2013	1,995	1.69	3,370	ton	\$100.00	\$337,000
Oats ¹⁵	2014	305	1.81	552	ton	\$200.00	\$110,000
	2013	365	1.95	712	ton	\$234.11	\$167,000
Rangeland	2014	1,063,390	N/A	N/A	acre	\$16.00	\$17,014,000
	2013	1,065,698	N/A	N/A	acre	\$16.00	\$17,051,000
Wheat, Grain	2014	800	1.08	864	ton	\$96.60	\$83,500
	2013	290	0.84	244	ton	\$169.02	\$41,200

FIELD CROPS TOTAL	2014	1,070,179		\$18,724,000
	2013	1,076,201		\$19,990,000

13 Includes: Peruano, Pintos, Pink, Pinquito and Lima Beans

14 Includes: Safflower, Pasture and Barley.

15 Includes: Hay Oats and Misc. Oats.

Livestock & Poultry

CROP	YEAR	HEAD	PRODUCTION	UNIT	VALUE PER UNIT	TOTAL
Cattle & Calves	2014	11,200	90,500	cwt+	\$201.00	\$18,191,000
	2013*	17,900	134,000	cwt	\$150.00	\$20,100,000
Stocker	2014	24,000	176,000	cwt	\$204.00	\$35,904,000
	2013*	38,500	273,000	cwt	\$165.00	\$45,045,000
Sheeps & Lambs	2014	1,600	2,160	cwt	\$131.00	\$283,000
	2013	2,300	2,850	cwt	\$110.00	\$314,000
Hogs	2014	1,000	270,000	lbs	\$1.04	\$281,000
	2013	1,100	297,000	lbs	\$0.83	\$247,000
Misc. Livestock ¹⁶ & Poultry ¹⁷ Products	2014	—	—	—	—	\$9,627,000
	2013	—	—	—	—	\$10,798,000

LIVESTOCK & POULTRY TOTAL	2014			\$64,286,000
	2013			\$76,504,000

16 Includes: Bulls, Cull Cows, Dairy Cows, Milk Manufacturing, Market Milk and Wool.

17 Includes: Eggs, Fertilizer, Hatcheries and Poultry.

*Adjusted values due to improved data

*Hundredweight (100 pounds)



Seed Production

CROP	YEAR	ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Bean Seed, All	2014	1,804	0.95	1,710	ton	\$2,110.00	\$3,608,000
	2013	2,314	0.87	2,010	ton	\$3,488.59	\$7,012,000
Misc. Seed ¹⁸	2014	998	0.89	888	ton	\$1,940.00	\$1,723,000
	2013	765	0.87	666	ton	\$2,689.44	\$1,791,000

SEED PRODUCTION TOTAL	2014	2,802					\$5,331,000
	2013	3,079					\$8,803,000



Apiary Production

CROP	YEAR	COLONIES	PRODUCTION	UNIT	VALUE PER UNIT	TOTAL
Honey	2014	N/A	8,700	lbs	\$2.25	\$19,600
	2013	N/A	14,500	lbs	\$2.10	\$30,500
Pollination ¹⁹	2014	2,250	N/A	colony	\$50.00	\$113,000
	2013	2,940	N/A	colony	\$55.00	\$162,000
Wax	2014	N/A	420	lbs	\$4.60	\$1,930
	2013	N/A	700	lbs	\$4.25	\$2,980

APIARY PRODUCTION TOTAL	2014					\$135,000
	2013					\$195,000

¹⁸ Includes: Barley, Broccoli, Carrots, Cauliflower, Celery, Corn, Cucumber, Flowers, Kohlrabi, Onions, Peas, Peppers, Radish, Soybean and Squash.

¹⁹ Seed Crops: Broccoli, Carrot, Cauliflower, Cucumber, Flower, Kale, Onion, Pepper, Radish, Squash and Raspberry Fruit.





Cut Flowers & Cut Foliage

CROP	YEAR	ACREAGE	PRODUCTION QUANTITY SOLD	UNIT	VALUE PER UNIT	TOTAL
Alstroemeria	2014	2.72	55,600	per bunch	\$2.15	\$120,000
	2013	3.74	57,000	per bunch	\$2.01	\$115,000
Asiatic Lily	2014	0.98	33,100	per bunch	\$4.38	\$145,000
	2013	1.00	59,400	per bunch	\$4.01	\$238,000
Carnations	2014	4.90	1,153,000	per bloom	\$0.15	\$173,000
	2013	6.48	2,281,000	per bloom	\$0.18	\$411,000
Chrysanthemums	2014	23.75	2,031,000	per bloom	\$1.36	\$2,762,000
	2013	27.21	3,804,000	per bloom	\$0.65	\$2,473,000
Eucalyptus	2014	72.11	190,000	per bunch	\$1.57	\$298,000
	2013	74.51	208,000	per bunch	\$1.63	\$339,000
Gerbera	2014	9.23	4,228,000	per bloom	\$0.45	\$1,903,000
	2013	9.53	5,020,000	per bloom	\$0.39	\$1,958,000
Iris	2014	8.04	202,000	per bunch	\$2.99	\$604,000
	2013	8.98	198,000	per bunch	\$2.76	\$546,000
Miniature Carnations	2014	2.71	98,500	per bunch	\$1.55	\$153,000
	2013	4.16	111,000	per bunch	\$1.42	\$158,000
Misc. Cut Flowers & Cut Foliage ²⁰	2014	189.49	11,602,000	various	\$2.05	\$23,784,000
	2013	194.60	15,964,000	various	\$1.83	\$29,214,000
Oriental Lilies	2014	3.13	101,000	per bunch	\$9.98	\$1,008,000
	2013	3.66	121,000	per bunch	\$9.61	\$1,163,000
Roses	2014	9.45	2,903,000	per bloom	\$1.14	\$3,309,000
	2013	13.40	3,071,000	per bloom	\$0.93	\$2,856,000
Snapdragon	2014	12.77	362,000	per bunch	\$4.41	\$1,596,000
	2013	13.29	359,000	per bunch	\$3.93	\$1,411,000
Tulips	2014	1.83	24,900	per bunch	\$4.42	\$110,000
	2013	2.17	35,900	per bunch	\$4.75	\$171,000

CUT FLOWERS & CUT FOLIAGE TOTAL	2014	341				\$35,965,000
	2013	363				\$41,053,000

²⁰ Includes: Acidanthera, Amaranthus, Anemones, Anthurium, Asters, Azalea, Banksia, Belladonna, Bulperum, Calendula, Calla Lily, Coleus, Curly Willow, Cyclamen, Daffodils, Dahlias, Delphinium, Ferns, Freesia, Gardenia, Gladiolus, Godetia, Grasses, Heather, Hydrangea, Impatiens, Kale, Kangaroo Paw, Larkspur, Lavender, Leather Leaf, Leptospermum, Leucodendron, Leucospermum, Limonium, Lisianthus, Marigold, Oxalis, Portulaca, Protea, Ranunculus, Safflower, Scabiosa, Solidacious, Statice, Stock, Sunflower, Sweet Peas, Tuberose, Viburnum, Yarrow and Zantedeschia.





Nursery Products

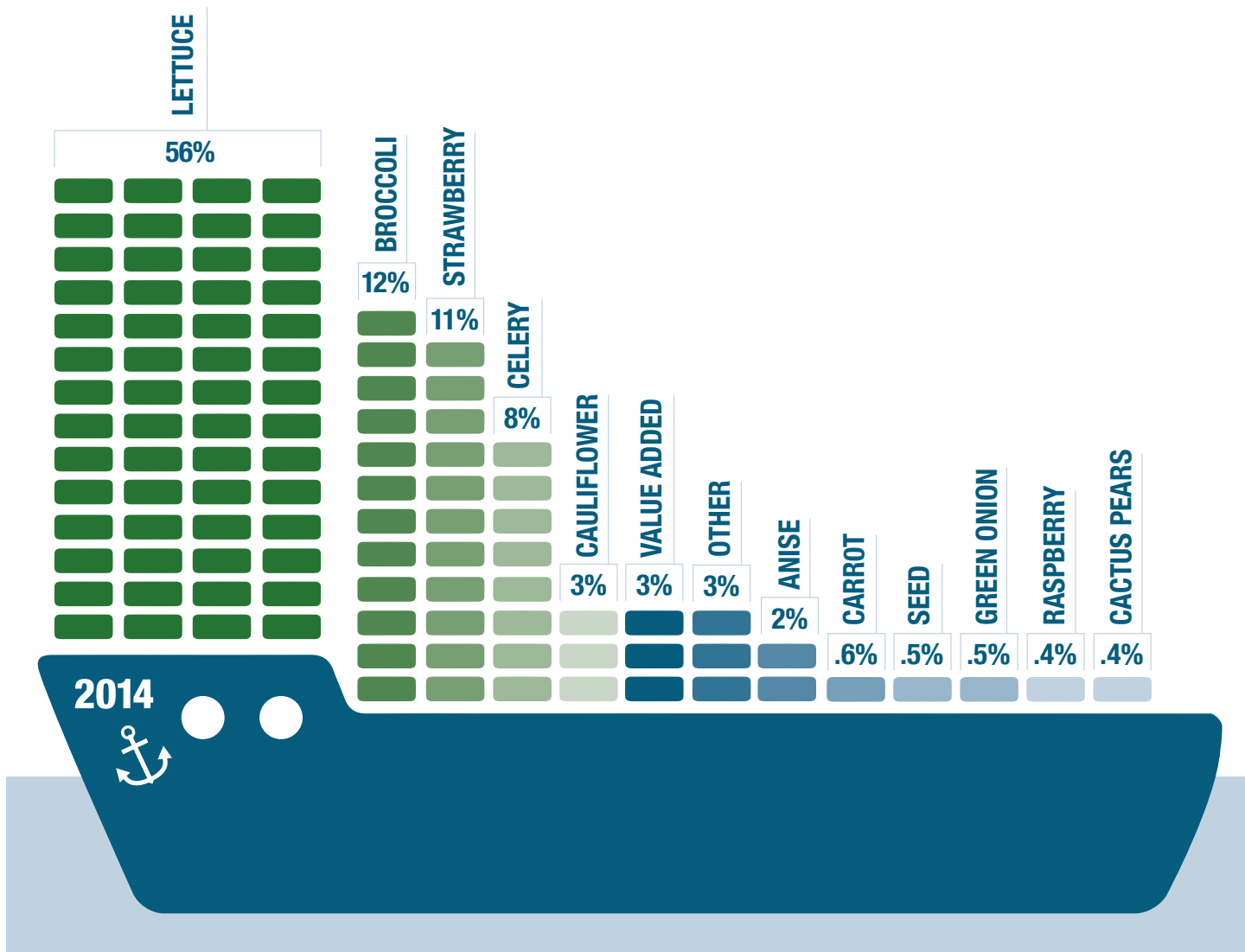
CROP	YEAR	ACREAGE	PRODUCTION QUANTITY SOLD	UNIT	VALUE PER UNIT	TOTAL
Bedding Plants	2014	128.91	20,085,000	per plant	\$1.68	\$33,743,000
	2013	135.57	23,315,000	per plant	\$1.34	\$31,242,000
Misc. Nursery Products ²¹	2014	296.77	16,363,000	various	\$0.91	\$14,890,000
	2013	397.58	7,693,000	various	\$1.89	\$14,540,000
Orchids	2014	73.23	11,591,000	per plant	\$7.33	\$84,962,000
	2013	75.57	10,647,000	per plant	\$6.08	\$64,734,000
Poinsettia	2014	54.00	1,426,000	per plant	\$4.26	\$6,075,000
	2013	55.01	1,974,000	per plant	\$4.60	\$9,080,000
Potted Plants	2014	211.83	13,682,000	per plant	\$2.41	\$32,974,000
	2013	216.34	14,450,000	per plant	\$2.87	\$41,472,000
Propagative Materials	2014	9.30	1,888,000	per plant	\$0.51	\$963,000
	2013	10.05	1,934,000	per plant	\$0.57	\$1,102,000
Vegetable Transplants	2014	82.68	1,209,143,000	per plant	\$0.06	\$72,549,000
	2013	83.07	2,099,985,000	per plant	\$0.05	\$104,999,000
Woody Ornamentals	2014	38.75	867,000	per plant	\$5.14	\$4,456,000
	2013	37.25	852,000	per plant	\$4.84	\$4,124,000

NURSERY PRODUCTS TOTAL	2014	895		\$250,612,000
	2013	1,010		\$271,293,000
OVERALL NURSERY ²² TOTAL	2014	1,236		\$286,577,000
	2013	1,373		\$312,346,000

21 Includes: Begonia, Bromeliads, Bulbs, Christmas Trees, Clivia, Corms, Cypress, Euonymus, Ficus, Fruit & Nut Trees, Jasmine, Milkweed, Myrtle, Native Plants, Rhizomes, Tubers, Turf and Water Pond Plants.
 22 Totals from Cut Flower & Cut Foliage and Nursery Products.



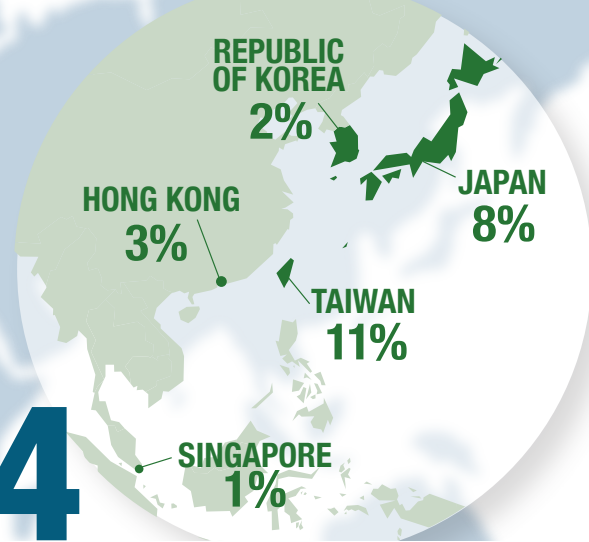
Produce Exports by Commodity



COMMODITY	2014 TOTAL POUNDS	COMMODITY	2013 TOTAL POUNDS
Lettuce	414,554,000	Lettuce	435,941,000
Broccoli	92,636,000	Broccoli	80,715,000
Strawberry	79,268,000	Strawberry	61,769,000
Celery	56,029,000	Celery	73,567,000
Cauliflower	25,773,000	Cauliflower	29,308,000
Value Added	23,985,000	Value Added	33,989,000
Anise	11,928,000	Cabbage	12,211,000
Carrot	4,668,000	Spinach	9,291,000
Seed	4,024,000	Anise	6,742,000
Green Onion	3,435,000	Carrot	4,728,200
Raspberry	3,046,000	Asparagus	4,107,000
Cactus Pears	2,963,000	Seed	3,670,000
Other	21,921,000	Other	29,650,000
744,230,000		785,688,000	



Agricultural Exports Trade Partners



2014

COUNTRY	2014 TOTAL POUNDS	COUNTRY	2013 TOTAL POUNDS
Canada	476,961,000	Canada	540,665,000
Taiwan	79,301,000	Taiwan	72,836,000
Japan	59,906,000	Japan	62,896,000
Mexico	42,753,000	Mexico	46,786,000
Hong Kong	18,964,000	Hong Kong	26,262,000
Korea, Republic of	11,637,000	Korea, Republic of	15,384,000
Singapore	10,685,000	Singapore	12,774,000
European Union	9,147,000	European Union	8,362,000
Puerto Rico	5,501,000	Puerto Rico	6,089,000
Kuwait	2,362,000	Panama	1,285,000
United Arab Emirates	1,085,000	Australia	734,000
Malaysia	1,073,000	New Zealand	481,000
New Zealand	1,026,000	United Arab Emirates	441,000
Panama	445,000	French Polynesia	348,000
Saudi Arabia	313,000	Malaysia	252,000
Australia	223,000	Brazil	201,000
Thailand	220,000	Kuwait	196,000
Brazil	164,000	Saudi Arabia	167,000
Qatar	162,000	Saipan	143,000
French Polynesia	150,000	Jamaica	123,000
Kenya	147,000	Indonesia	111,000
Philippines	144,000	Colombia	91,200
Colombia	116,000	Philippines	55,700
Norway	62,900	Sri Lanka	37,300
South Africa	58,300	South Africa	32,700
Chile	50,700	Chile	19,700
Guatemala	13,500	Guatemala	14,300



Organic Production Registered in Monterey County

YEAR	PRODUCERS	ACRES	GROSS SALES
2014	158	46,579	\$277,294,000
2013	131	33,381	\$214,437,000
2012	131	22,288	\$182,657,000
2011	113	19,863	\$170,352,000
2010	87	19,945	\$168,956,000
2009	93	17,581	\$163,883,000
2008	98	18,106	\$196,081,000
2007	111	17,653	\$201,541,000
2006	111	17,357	\$226,466,000
2005	95	16,410	\$208,660,000

The number of Monterey County's organic farms, acreage and value of organic commodities continues to increase annually. Our organic farms, ranging from small-scale farms to large-scale farms, produce a wide array of commodities and operate in accordance with the California Organic Products Act of 2003, the Federal Organic Foods Production Act of 1990 and the United States Department of Agriculture (USDA) National Organic Program (NOP) Regulations. Some of the Monterey County's top organic commodities include: strawberries, leaf lettuces, raspberries, spinach, salad mix and broccoli.

Division of Weights and Measures

The Division of Weights and Measures of Monterey County (W&M) is responsible for checking commercial devices for accuracy. Any device that weighs or measures a commodity for sale to the public must be registered as "legal for trade" and must be accurate. Inspectors are in the field daily to verify these devices are reading correctly.

The purpose is to maintain a level playing field for both consumers and business owners by ensuring transactions are based on accurate weights, measures or counts; and price scanners must register the lowest posted or advertised price. In Monterey County, over 13,000 devices are registered, with more than half of them checked annually.

More than 1,600 weighing devices were checked in 2014, ranging from jewelry scales to truck scales. There are 151 gas stations in Monterey County with over 4,020 pumps that are checked on an annual basis. W&M checks over 1,200 sub-meters used in trailer parks and apartment complexes to charge for usage of water, electricity and gas. These are checked at the rate of 10% each year. All equipment is specialized for checking these devices and is certified by the state or other certified labs.

Quality control involves the verification of net contents statement, accuracy of pricing and weight, and fair packaging and labeling. W&M



Dan Marien (Weights & Measures) checks cattle scale.

inspectors frequently respond to complaints from consumers, such as shortages at gas pumps, or poor quality gas, or overcharges at stores. If a complaint is received about the quality of fuel, a sample is taken and sent to the state petroleum lab for testing. Complaints of fuel shortages often result in a state undercover visit from a vehicle specially designed to measure the quantity of fuel received.

The weighmaster program verifies that

certifications are being filled out correctly, which ensures deliveries of feed, fertilizers, soil amendments and other agricultural supplies are correctly charged. Livestock, winery and truck scales are checked every year as are scales at farmers markets and the two commercial wharfs.

The W&M Division works to ensure an equitable marketplace for all at a cost of pennies a year per person.



Summary of Pest Management Activities

PEST	AGENT / MECHANISM	SCOPE OF PROGRAM
COUNTY BIOLOGICAL CONTROL		
Yellow Starthistle, <i>Centaurea solstitialis</i>	Seedhead Weevils/Fly, <i>Bangasternus orientalis</i> , <i>Eustenopus villosus</i> , <i>Urophora sirunaseva</i> , <i>Larinus curtus</i>	47 sites
Italian Thistle, <i>Carduus</i> spp.	Seedhead weevil, <i>Rhinocyllus conicus</i>	General Distribution
Russian Thistle, <i>Salsola australis</i>	Leaf & stem mining moths, <i>Coleophora</i> spp.	General Distribution
Puncture Vine, <i>Tribulus terrestris</i>	Stem & Seed weevils, and <i>Microlarinus</i> spp.	General and Local Distribution
Ash Whitefly, <i>Siphoninus phillyreae</i>	Parasitic wasp, <i>Encarsia inaron</i>	General Distribution
PEST ERADICATION		
Scotch Thistle, <i>Onopordum acanthium</i>	Mechanical/Chemical	One Infestation
Skeletonweed, <i>Chondrilla juncea</i>	Mechanical/Chemical	One Infestation
Puna Grass, <i>Achnatherum brachychaetum</i>	Mechanical/Chemical	Nine Infestations
<i>Hydrilla (Hydrilla verticillata), and biddy-biddy (Acaena novae-zelandiae) have been eradicated.</i>		
PEST MANAGEMENT		
Roadside (virus host) Weeds	Chemical	County right-of-ways, spot treatment
Roadside, Targeted Noxious Weeds	Chemical	County right-of-ways, spot treatment
Lettuce Mosaic Virus	Virus-Free Seed	Indexing of all county-planted seed
Lettuce Mosaic Virus	Host-Free Period	No lettuce above ground 12/7-12/21
Celery Mosaic Virus	Host-Free Period	No celery above ground in January
Lettuce Root Aphid	Quarantine, State Misc. Ruling 3597	Lombardy poplar prohibition

PEST DETECTION/EXCLUSION

Pest detection is the systematic search for pests outside of a known infested area or for pests not known to occur in California. The general goal is to detect pests before they become established over an area so large that eradication is no longer biologically or economically feasible. Pest exclusion refers to the process of denying entry of pests into an area by routine inspection of incoming plant shipments and rejection of infested material. Detection trapping is performed primarily by the County Agricultural Commissioner's offices.

TARGET PEST	INSECT HOSTS	NO. OF TRAP SERVICINGS
Medfly	Fruit Trees	2,895
Melon Fruit Fly	Vegetable Gardens	1,149
Mexican Fruit Fly	Fruit Trees	2,330
Oriental Fruit Fly	Fruit Trees	2,893
Misc. Fruit Flies	Fruits and Vegetables	1,178
Gypsy Moth	Shade Trees	386
Japanese Beetle	Turf, Roses	370
Trogoderma Beetle	High Hazard Commodities	124
Glassy Winged Sharpshooter	Nurseries/Vineyards/Urban Areas	9,212
Light Brown Apple Moth	Ornamental/Commercial Crops	3,303
European Grapevine Moth	Grapes	25,368
Asian Citrus Psyllid	Citrus	3,352

*Pest detection trapping activities accounted for 14,450 hours, with a total of 52,560 trap services being made. A total of 1,027 inspections were made on incoming plant shipments at parcel terminals, with five rejections issued. For the glassy-winged sharpshooter program, 1,725 incoming nursery stock shipments were inspected from regulated areas and no viable life stages of the pest were detected. Another 457 incoming plant material inspections were performed for in-state and out-of-state shipments. Phytosanitary field inspections for seed accounted for 2,286 hours, with a total of 724 inspections being completed on 2,168 acres. Special surveys were made for exotic invasive weeds, *Cymbalaria* aphid, karnal bunt, citrus greening disease, sudden oak death disease, Asian citrus psyllid, brown marmorated stink bug, and glassy-winged sharpshooter.*



MONTEREY COUNTY AGRICULTURAL COMMISSIONER'S OFFICE

1428 Abbott St., Salinas, CA 93901
tel (831) 759-7325 • fax (831) 759-2268 • ag.co.monterey.ca.us

