



Hawaii Macadamia Nuts

Final Season Estimates



July 17, 2015

In Cooperation with the Hawaii Department of Agriculture
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Larger Crop and Favorable Prices Increase 2014-2015 Value

Hawaii 2014-2015 macadamia nut utilized production is estimated at 46.0 million pounds (net, wet-in-shell basis), up 12 percent from the previous season according to a survey conducted by the National Agricultural Statistics Service. A larger crop combined with favorable prices contributed to this season's higher crop value.

Both in crop acreage and harvested acreage remained unchanged from last crop year at 18,000 acres and 16,000 acres, respectively. About 1.3 million trees were estimated for in crop acreage. Yields averaged 2,875 pounds per acre (net, wet-in-shell basis) for the 2014-2015 season, 315 pounds more than the 2013-

2014 season. Average moisture content for the overall crop this season was 19.3 percent compared with 20.3 percent from last season.

Farm value for the 2014-2015 crop is estimated at \$40.0 million (net, wet-in-shell basis), up 12 percent from 2013-2014 season. The average farm price remained unchanged at 87.0 cents per pound. The last time prices were this high was in 1989-1990 at 89.0 cents per pound (net, wet-in-shell basis). The record high farm price was in 1988-1989 crop year at 90.0 cents per pound (net, wet-in-shell basis). See Table 3 on page 3 for the macadamia nut historical data series.

Table 1. MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 2010-2014 crop years

Crop year ¹	Farms	Acreage		Yield per acre ²	Utilized Production ³		Average moisture		Farm prices ³		Farm value ⁶
		In crop	Harvested		Gross	Net ⁴	Entire crop	Purchases only	Gross ⁵	Net	
	<i>Number</i>	<i>-----Acres -----</i>			<i>----1,000 pounds ----</i>		<i>-----Percent -----</i>		<i>Cents per pound</i>		<i>1,000 dollars</i>
2010-11	570	17,000	15,000	2.7	47,000	40,000	20.3	20.6	63.8	75.0	30,000
2011-12	570	17,000	15,000	3.3	58,000	49,000	19.5	20.1	65.9	78.0	38,220
2012-13	570	17,000	15,000	2.9	52,000	44,000	19.4	20.2	67.7	80.0	35,200
2013-14	620	18,000	16,000	2.6	49,000	41,000	20.3	20.7	72.8	87.0	35,670
2014-15	NA	18,000	16,000	2.9	55,000	46,000	19.3	20.5	72.8	87.0	40,020

¹ Season begins July 1st and ends June 30th of the following year. ² Net production divided by acreage harvested. ³ Wet in-shell basis. ⁴ Gross pounds less total spoilage. ⁵ Farm value divided by gross production. ⁶ Net production multiplied by net farm price. NA is not available.

Immature Nuts Still Account For Nearly 1/3 of the Crop Loss

Growers delivered an estimated 55.0 million pounds of macadamia nuts, wet-in-shell, to processors during the 2014-2015 season. About 16 percent of the harvest was culled, resulting in 46.0 million pounds net, wet-in-shell. The equivalent gross weight of losses, after adjusting for what would be the expected weight before the damage, was 14.2 million pounds.

Immature nuts, moldy/rotten nuts, and Koa Seed Worm continued to account for the top 3 causes of crop losses. The remaining causes of losses were attributed to Tropical Nut Borer, Stink Bug, germinated nuts, and other causes. Macadamia nut losses shown in this report include only those culled by processors and do not include losses that occurred at the farm before delivery.

**Macadamia Nuts: Loss By Cause
State of Hawaii, 2014-2015 Season**

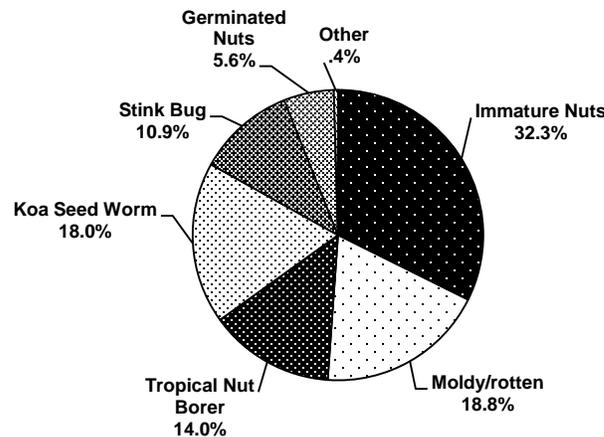


Table 2. MACADAMIA NUTS: Loss by cause, State of Hawaii, 2013-2014 and 2014-2015

Type of loss	Estimated loss ¹		Percent of losses		Percent of delivered crop	
	2013-14	2014-15	2013-14	2014-15	2013-14	2014-15
	----- 1,000 pounds -----		----- Percent -----			
Immature nuts ²	4,020	4,590	32.0	32.3	8.2	8.4
Moldy/rotten	2,985	2,665	23.8	18.8	6.1	4.9
Koa seed worm	2,040	2,555	16.2	18.0	4.2	4.6
Tropical nut borer	1,325	1,980	10.6	14.0	2.7	3.6
Stink bug	1,620	1,545	12.9	10.9	3.3	2.8
Germinated nuts	530	790	4.2	5.6	1.1	1.4
Other causes	35	65	.3	.4	.1	.1
Total	12,555	14,190	100.0	100.0	25.7	25.8

¹ Includes only losses for nuts completely rejected for processing. Does not include nuts with some damage but still utilized. Adjustments were made to reported weights to account for damage that would lower kernel weights and have the effect of underestimating the actual amount of loss. The adjustment factors were provided by Dr. H. C. Bittenbender and Dr. Vince Jones, CTAHR, University of Hawaii and were applied to both crop years. Excludes losses in the field or culled before delivery.

² Includes naturally occurring premature drop.

HISTORICAL DATA

Table 3. MACADAMIA NUTS: Acreage, yield, production, price, and value, State of Hawaii, 1946-2014

Crop year ¹	Acreage		Yield per acre ²	Production ³		Farm Price ³		Farm value ⁶
	In crop	Harvested		Gross	Net ⁴	Gross ⁵	Net	
	----- Acres -----		----- 1,000 pounds -----		----- Cents per pound -----		1,000 dollars	
1946-47	950	860	.7	NA	630	NA	15.2	96
1947-48	1,340	860	.8	NA	680	NA	16.9	115
1948-49	1,530	860	.8	NA	700	NA	17.0	119
1949-50	1,710	860	.8	NA	680	NA	16.9	115
1950-51	2,150	860	.9	NA	755	NA	17.0	128
1951-52	2,300	840	1.0	NA	850	NA	16.9	144
1952-53	2,770	840	1.1	NA	965	NA	17.1	165
1953-54	2,900	830	1.2	NA	970	NA	17.0	165
1954-55	3,030	1,080	.9	NA	930	NA	17.1	159
1955-56	3,030	1,300	.7	NA	903	NA	17.9	162
1956-57	3,200	1,470	.7	NA	1,027	NA	18.4	189
1957-58	3,120	1,680	.8	NA	1,329	NA	18.7	248
1958-59	3,290	1,750	1.0	NA	1,832	NA	18.5	339
1959-60	3,840	2,220	1.0	NA	2,102	NA	18.2	382
1960-61	3,820	2,300	1.1	NA	2,569	NA	18.4	472
1961-62	3,880	2,430	1.6	NA	3,751	NA	18.5	693
1962-63	4,100	2,460	2.1	NA	5,182	NA	18.4	954
1963-64	4,110	2,390	2.5	NA	6,003	NA	17.7	1,061
1964-65	4,510	2,520	3.1	NA	7,639	NA	15.6	1,192
1965-66	5,410	2,780	3.1	NA	8,522	NA	19.4	1,651
1966-67	6,700	2,950	3.0	NA	8,715	NA	21.0	1,830
1967-68	7,980	3,340	2.4	NA	7,966	NA	24.6	1,960
1968-69	8,520	3,680	2.8	NA	10,436	NA	22.8	2,379
1969-70	8,690	4,030	2.5	NA	10,049	NA	24.6	2,472
1970-71	8,735	4,115	3.2	NA	13,216	NA	21.7	2,868
1971-72	9,170	4,900	2.9	NA	14,448	NA	24.7	3,569
1972-73	9,250	5,000	2.6	NA	13,110	NA	23.3	3,055
1973-74	10,450	5,080	2.4	NA	12,124	NA	25.5	3,092
1974-75	9,890	5,760	2.8	NA	16,370	NA	32.0	5,238
1975-76	10,400	6,080	3.0	NA	18,210	NA	31.6	5,754
1976-77	10,250	6,300	3.0	NA	18,990	NA	36.9	7,007
1977-78	9,895	6,300	3.1	NA	19,680	NA	40.8	8,030
1978-79	10,200	9,200	2.3	NA	20,980	NA	53.8	11,287
1979-80	11,400	9,600	2.8	NA	26,660	NA	62.9	16,769
1980-81	13,300	10,000	3.3	NA	33,390	NA	72.4	24,174
1981-82	14,000	10,000	3.3	NA	33,360	NA	79.3	26,454
1982-83	15,600	10,200	3.6	NA	36,720	NA	73.9	27,136
1983-84	16,400	10,600	3.4	38,500	36,420	62.2	65.7	23,928
1984-85	17,500	12,000	3.1	40,500	37,700	64.4	69.2	26,088
1985-86	20,900	13,500	3.1	44,700	42,000	68.1	72.5	30,450
1986-87	21,200	14,400	3.1	46,600	44,000	75.5	80.0	35,200
1987-88	21,500	15,600	2.7	45,600	42,700	78.7	84.0	35,868
1988-89	21,900	16,600	2.7	49,000	45,500	83.6	90.0	40,950
1989-90	22,300	18,200	2.8	54,000	50,500	83.2	89.0	44,945
1990-91	22,600	18,400	2.7	54,300	50,000	75.5	82.0	41,000
1991-92	22,500	18,200	2.7	53,900	49,500	64.3	70.0	34,650
1992-93	20,500	17,500	2.7	53,000	48,000	61.6	68.0	32,640
1993-94	20,100	18,500	2.6	53,000	48,500	62.2	68.0	32,980
1994-95	20,200	18,500	2.8	58,000	52,500	62.5	69.0	36,225

See footnotes at end of table

Continued

HISTORICAL DATA CONTINUED

Table 3. MACADAMIA NUTS: Acreage yield, production, price, and value, State of Hawaii -- Continued

Crop year ¹	Acreage		Yield per acre ²	Production ³		Farm Price ³		Farm Value ⁶
	In crop	Harvested		Gross	Net ⁴	Gross ⁵	Net	
	----- Acres -----			----- 1,000 pounds -----		----- Cents per pound -----		1,000 dollars
1995-96	20,300	19,300	2.6	57,000	51,000	66.2	74.0	37,740
1996-97	20,200	19,200	2.9	63,000	56,500	70.0	78.0	44,070
1997-98	20,200	19,200	3.0	65,000	58,000	66.9	75.0	43,500
1998-99	20,200	19,200	3.0	66,000	57,500	57.0	65.0	37,375
1999-00	19,900	18,900	3.0	64,000	56,500	59.1	67.0	37,855
2000-01	18,400	17,700	2.8	56,000	50,000	52.7	59.0	29,500
2001-02	18,000	17,800	3.1	62,000	56,000	53.3	59.0	33,040
2002-03	18,000	17,800	3.0	60,000	53,000	50.4	57.0	30,210
2003-04	18,000	17,800	3.0	60,000	53,000	53.9	61.0	32,330
2004-05	18,000	17,800	3.2	63,000	56,500	65.5	73.0	41,245
2005-06	18,300	18,000	3.0	62,000	54,000	70.5	81.0	43,740
2006-07	17,000	15,000	3.9	65,000	58,000	59.8	67.0	38,860
2007-08	17,000	15,000	2.7	48,000	41,000	51.3	60.0	24,600
2008-09	17,000	15,000	3.3	60,000	50,000	55.8	67.0	33,500
2009-10	17,000	15,000	2.8	50,000	42,000	58.8	70.0	29,400
2010-11	17,000	15,000	2.7	47,000	40,000	63.8	75.0	30,000
2011-12	17,000	15,000	3.3	58,000	49,000	65.9	78.0	38,220
2012-13	17,000	15,000	2.9	52,000	44,000	67.7	80.0	35,200
2013-14	18,000	16,000	2.6	49,000	41,000	72.8	87.0	35,670
2014-15	18,000	16,000	2.9	55,000	46,000	72.8	87.0	40,020

¹ Season begins July 1st and ends June 30th of the following year.

² Net production divided by acreage harvested.

³ Wet in-shell basis.

⁴ Gross pounds less total spoilage.

⁵ Farm value divided by gross production.

⁶ Net production multiplied by net farm price.

U.S. TREE NUT REPORT

Utilized tree nut production for crop year 2014 is 2.56 million tons (in-shell basis), 4 percent below the previous year. Almond utilized production, at 1.55 million tons is down 11 percent from 2013. Walnut utilized production in 2014, at 570,000 tons, is up 16 percent from the previous year. Pistachio utilized production, at 257,000 tons is 9 percent higher than 2013. Pecan utilized production in 2014 is estimated at 132,075 tons, a slight decrease from 2013. The hazelnut crop, at 36,000 tons, is 20 percent below the previous year. Macadamia nut production is 23,000 tons, up 12 percent from 2013.

Value of United States utilized nut production in 2014 is 10.0 billion dollars, down 4 percent from the 2013 value. The 2014 utilized almond crop is valued at 5.89 billion dollars, 8 percent less than the previous year. Pistachio utilized crop value for 2014, at 1.59 billion dollars, is down 3 percent from previous year. The value of the 2014 utilized pecan crop increased 12 percent to 517 million dollars. Hazelnut utilized crop value, at 130 million dollars, is 7 percent above last year. The 2014 utilized macadamia nut crop is valued at 40.0 million dollars, up 12 percent from 2013.

For the complete report see:

<http://usda.mannlib.cornell.edu/usda/current/NoncFruiNu/NoncFruiNu-07-17-2015.pdf>