



Hawaii Macadamia Nuts

Final Season Estimates

National
Agricultural
Statistics
Service

July 13, 2012

In Cooperation with the Hawaii Department of Agriculture
Hawaii Field Office · 1428 South King Street · Honolulu, HI 96814-2512 · 1-(800)-804-9514 · www.nass.usda.gov

2011-2012 Macadamia Nut Production, Price Higher

Hawaii's 2011-2012 utilized production of macadamia nuts is estimated at 49.0 million pounds net, wet-in-shell according to the USDA, National Agricultural Statistics Service, Hawaii Field Office. This season's estimate is 23 percent more than the 2010-2011 season and rebounding after a two year decline.

Season Overview

More rainfall, and at timely intervals, improved production for the 2011-2012 season compared to 2010-2011 season which was affected by drought conditions. Early flowering and better pollination helped increase yields. Low rainfall during the kernel development period had some affect on nut quality. The volcanic emissions are still affecting the crop.

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Acreage Unchanged, Yields Higher

For the 2011-2012 season, growers harvested an estimated 15,000 acres, unchanged for the past five seasons. Statewide, there were 17,000 acres in crop and an estimated 1.2 million macadamia nut trees.

Continued on page 2

MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 2007-2011 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	
	Number	Acres			1,000 pounds		Percent		Cents per pound		1,000 dollars
2007-08	570	17,000	15,000	2.7	48,000	41,000	21.3	21.5	51.3	60.0	24,600
2008-09	570	17,000	15,000	3.3	60,000	50,000	20.5	21.4	55.8	67.0	33,500
2009-10	570	17,000	15,000	2.8	50,000	42,000	20.1	20.8	58.8	70.0	29,400
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

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.

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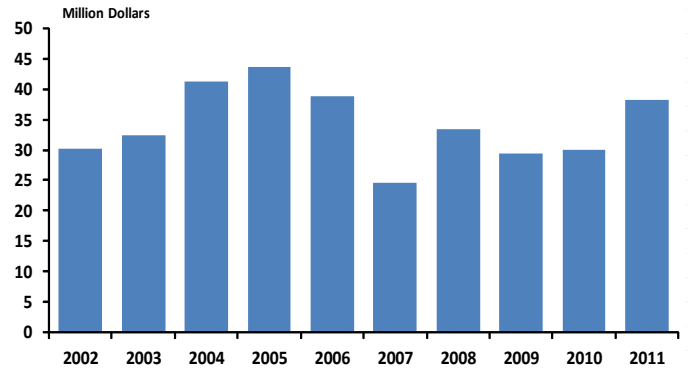
MORE ON THE 2011-2012 SEASON

Yields averaged 3,270 pounds per acre (net, wet-in-shell basis) for the 2011-2012 season, or 600 pounds more per acre than the 2010-2011 season. Average moisture content for this season's entire crop was 19.5 percent compared with 20.3 percent for the 2010-2011 crop.

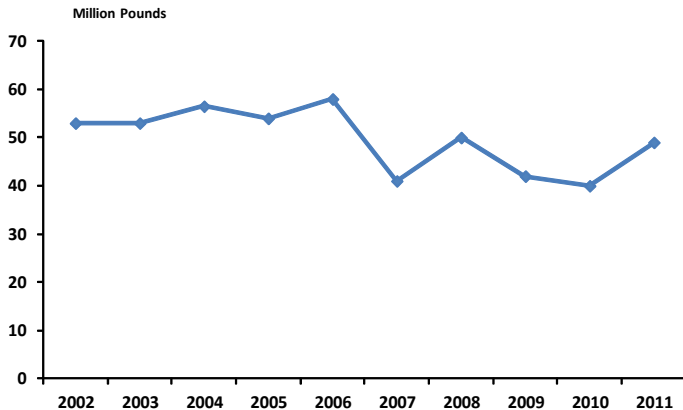
Farm Price Higher

The farm price for macadamia nuts averaged 78.0 cents per pound on a net, wet-in-shell basis for the 2011-2012 crop season, 3.0 cents more than the 2010-2011 average and increasing for the fourth consecutive year. Higher price and more production contributed to the 27 percent rise in farm value from last season to \$38.2 million this season.

Macadamia Nuts:
Farm Value
(Net, wet-in-shell basis)
State of Hawaii, 2002-2011 Seasons



Macadamia Nuts:
Utilized Production
(Net, wet-in-shell basis)
State of Hawaii, 2002-2011 Seasons



Crop Losses Higher

Growers delivered an estimated 58.0 million pounds of macadamia nuts, wet-in-shell, to processors during the 2011-2012 season. About 16 percent of the harvest was culled, resulting in 49.0 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 13.8 million pounds.

Immature nuts, Koa Seed Worm, moldy/rotten nuts, and Stink Bug accounted for 85 percent of the crop losses. The remaining causes of losses were attributed to germinated nuts, Tropical Nut Borer, 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, 2011-2012 Season**

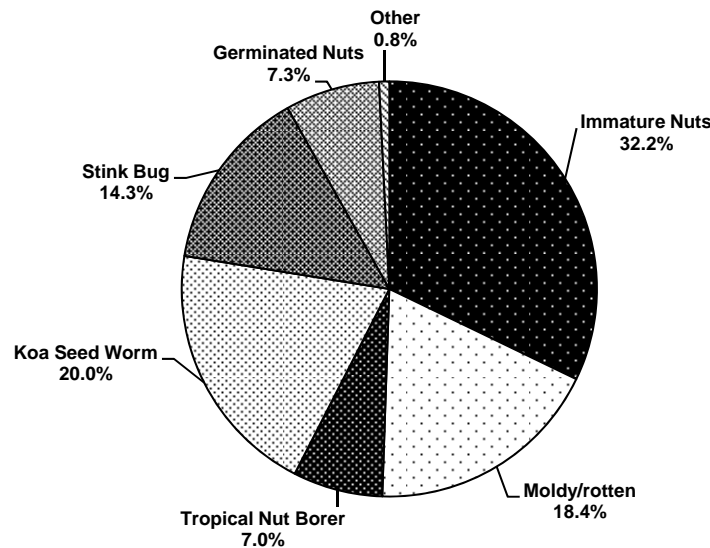


Table 2. MACADAMIA NUTS: Loss by cause, State of Hawaii, 2010-2011 and 2011-2012

Type of loss	Estimated loss ¹		Percent of losses		Percent of delivered crop	
	2010-11	2011-12	2010-11	2011-12	2010-11	2011-12
	----- 1,000 pounds -----		----- Percent -----			
Immature nuts ²	3,440	4,440	32.3	32.2	7.3	7.6
Koa seed worm	1,640	2,765	15.4	20.0	3.5	4.8
Moldy/rotten	2,950	2,540	27.7	18.4	6.3	4.4
Stink bug	1,255	1,975	11.8	14.3	2.7	3.4
Germinated nuts	785	1,015	7.4	7.3	1.7	1.7
Tropical nut borer	395	965	3.7	7.0	.8	1.7
Other causes	180	110	1.7	.8	.4	.2
Total	10,645	13,810	100.0	100.0	22.7	23.8

* = less than .1 percent.

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, 1946-2011

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

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	
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
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

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

Tree nuts: Utilized tree nut production for crop year 2011 is 2.57 million tons (in-shell basis), 8 percent above the previous year. Almond utilized crop production, at 1.69 million tons is up 20 percent from 2010. Walnut production in 2011, at 461,000 tons, is down 9 percent from the previous year. Pistachio production, at 222,000 tons is 15 percent less than 2010. Pecan production in 2011 is estimated at 134,900 tons, an 8 percent decrease from 2010. The hazelnut crop, at 38,500 tons, is 38 percent above the previous year. Macadamia nut production is 24,500 tons, up 23 percent from 2010.

Value of United States utilized nut production in 2011 is 6.85 billion dollars, up 17 percent from the 2010 value. The 2011 utilized almond crop is valued at 3.87 billion dollars, 33 percent more than the previous year. Pistachio utilized crop value for 2011, at 879 million dollars, is down 24 percent from previous year. The value of the 2011 utilized pecan crop decreased 3 percent to 656 million dollars. Hazelnut utilized crop value, at 89.7 million dollars, is 33 percent above last year. The 2011 utilized macadamia nut crop is valued at 38.2 million dollars, up 27 percent from 2010.

For the complete report see:

<http://usda01.library.cornell.edu/usda/current/NoncFruNu/NoncFruNu-07-06-2012.pdf>

U.S IMPORTS

Table 4. U.S. Macadamia nut imports, by type, 2011

Port of entry	Type							
	Shelled or blanched ¹ Harmonized number: 0802.60.8000		Pickled or otherwise prepared or preserved Harmonized number: 2008.19.9010		Not shelled ² Harmonized number: 0802.60.4000		Total	
	Quantity	Custom value	Quantity	Custom value	Quantity	Custom value	Quantity	Custom value
	<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. Dollars</i>
Baltimore	213	2,647,353	*	2,249			213	2,649,602
Buffalo	34	330,184	7	24,292			40	354,476
Charleston	266	3,291,404					266	3,291,404
Chicago	75	861,543	164	439,898			239	1,301,441
Detroit	25	132,256			19	29,960	44	162,216
Honolulu			*	3,373			*	3,373
Houston	1,324	13,197,674					1,324	13,197,674
Laredo	3	28,744					3	28,744
Los Angeles	1,611	14,711,553	359	4,444,722			1,970	19,156,275
Miami	17	256,000					17	256,000
New York City	1,953	18,692,164	29	218,662	151	232,875	2,133	19,143,701
Norfolk	888	10,010,093					888	10,010,093
Philadelphia	119	1,704,426	270	813,744			390	2,518,170
San Francisco	553	6,088,313	68	176,488	6	13,000	627	6,277,801
Savannah	59	719,261	162	421,390			221	1,140,651
Seattle	297	4,470,976	21	133,359			318	4,604,335
Total ³	7,437	77,141,944	1,080	6,678,177	177	275,835	8,694	84,095,956

* = Less than 1 metric ton.

The conversion for 1 metric ton = 2,204.6 pounds.

¹ Beginning 2007, harmonized number 0802.90.9810 was changed to 0802.60.8000.

² Beginning 2007, harmonized number 0802.90.8010 was changed to 0802.60.4000.

³ Total may not add due to rounding.

Source: U.S. Department of Commerce.

Table 5. International macadamia nut imports by type, 2011

Country of origin	Type							
	Shelled or blanched ¹ Harmonized number: 0802.60.8000		Pickled or otherwise prepared or preserved Harmonized number: 2008.19.9010		Not shelled ² Harmonized number: 0802.60.4000		Total	
	Quantity	Custom value	Quantity	Custom value	Quantity	Custom value	Quantity	Custom value
	<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. dollars</i>
Australia	396	5,008,359	748	4,304,623			1,144	9,312,982
Brazil	370	3,714,430					370	3,714,430
Canada			27	157,651			27	157,651
Central African Republic	79	268,250					79	268,250
China	54	571,563			6	13,000	60	584,563
Costa Rica	63	431,860					63	431,860
Germany			*	2,249			*	2,249
Guatemala	984	9,831,993					984	9,831,993
Italy			*	3,373			*	3,373
Kenya	2,578	25,602,741	110	1,369,269	151	232,875	2,839	27,204,885
Malawi	454	4,898,263	15	192,314			469	5,090,577
Mexico	3	28,744					3	28,744
South Africa	2,437	26,606,291	16	208,800	19	29,960	2,472	26,845,051
Swaziland	20	179,450					20	179,450
Thailand			164	439,898			164	439,898
Total ³	7,437	77,141,944	1,080	6,678,177	177	275,835	8,694	84,095,956

* = Less than 1 metric ton.

The conversion for 1 metric ton = 2,204.6 pounds.

¹ Beginning 2007, harmonized number 0802.90.9810 was changed to 0802.60.8000.

² Beginning 2007, harmonized number 0802.90.8010 was changed to 0802.60.4000.

³ Total may not add due to rounding.

Source: U.S. Department of Commerce.

Table 6. U.S Macadamia nut imports, by type, 2002-2011

Year	Type		
	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled
	<i>Metric tons</i>		
2002	4,256	59	162
2003	6,212	53	204
2004	8,108	163	338
2005	7,575	124	406
2006	6,345	282	127
2007	6,656	311	49
2008	6,789	503	45
2009	6,871	425	183
2010	7,231	1,015	269
2011	7,437	1,080	177

Source: U.S. Department of Commerce.

U.S. EXPORTS

Table 7. U.S Macadamia nut exports, by country of destination, 2010-2011
Harmonized number: 2008.19.9010

Country of destination	2010		2011	
	Quantity	F.A.S. value	Quantity	F.A.S. value
	<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. dollars</i>
Australia	*	6,670	3	53,117
Canada	158	1,190,875	170	1,289,854
China	5	72,447	22	307,008
Colombia			1	9,900
Costa Rica	1	11,800	2	24,094
Ecuador			3	58,875
France	62	958,830	22	350,346
French Polynesia	1	5,296		
Guatemala			9	112,743
Hong Kong	72	904,943	79	913,877
India			*	4,080
Israel	12	146,400		
Japan	250	3,380,097	188	2,320,752
Korea, South	40	565,754	27	327,395
Mexico	44	476,160	27	244,140
Netherlands	7	89,678		
Paraguay	1	3,597		
Republic of Philippines	6	107,499	7	112,937
Singapore	*	4,099	1	28,979
Switzerland	2	9,713		
Taiwan	67	1,090,322	34	580,852
Thailand	7	99,347	6	63,682
United Kingdom			2	28,673
Total	735	9,123,527	603	6,831,304

* = less than 1 metric ton.

F.A.S. = Free Along Side.

Source: U.S. Department of Commerce.

USDA, NASS-Hawaii Field Office
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