



HAWAII MACADAMIA NUTS Final Season Estimates

In cooperation with:



Agricultural Development Division

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Final Season Estimates Indicate Large Nut Crop For 2005-2006 Crop Year

Hawaii's 2005-06 macadamia nut harvest is estimated at **60.0** million pounds net, wet-in-shell, up 3.5 million pounds from last season's harvest, according to USDA, NASS-Hawaii Field Office (formerly known as Hawaii Agricultural Statistics). Weather for 2005 was mixed but generally favorable toward macadamia nut orchards.

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**MACADAMIA NUTS: Harvested Acreage and Net Production,
State of Hawaii, 1946-05 Seasons**

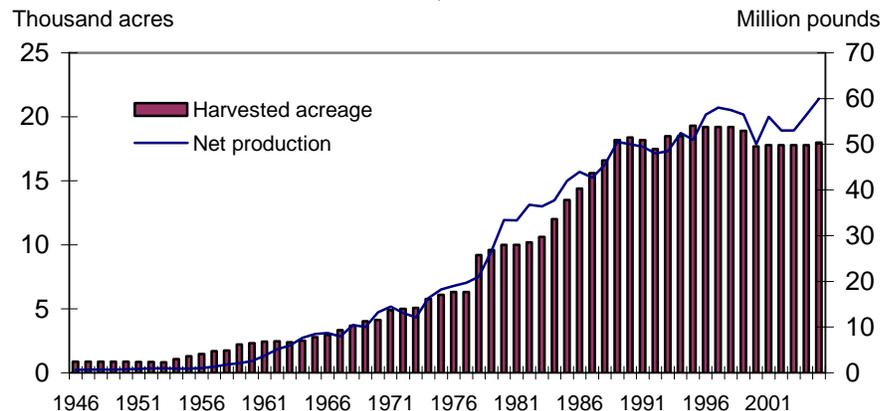


Table 1. MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 2000-01 to 2005-06 crop years

Crop year ¹	Farms	Acreage		Yield per acre ³	Production ⁴		Average moisture		Farm prices ⁴		Farm value ⁸
		In crop	Harvested ²		Gross ⁵	Net ⁶	Entire crop	Purchases only	Gross ⁷	Net	
	Number	Acres	Acres		1,000 pounds	1,000 pounds	Percent	Percent	Cents per pound	Cents per pound	1,000 dollars
2001-02	650	18,000	17,800	3.1	62,000	56,000	21.2	21.9	53.3	59.0	33,040
2002-03	650	18,000	17,800	3.0	60,000	53,000	20.4	20.7	50.4	57.0	30,210
2003-04	650	18,000	17,800	3.0	60,000	53,000	20.2	20.7	53.9	61.0	32,330
2004-05	650	18,000	17,800	3.2	63,000	56,500	20.7	21.0	65.5	73.0	41,245
2005-06	650	18,300	18,000	3.3	67,000	60,000	20.7	20.4	66.3	74.0	44,400

¹ Season begins July 1st and ends June 30th of the following year. ² Called bearing acreage prior to 1993-94 crop year. ³ Net production per bearing acre. ⁴ Wet in-shell basis, delivered to processors. ⁵ Gross pounds delivered for processing. ⁶ Gross pounds delivered for processing less total spoilage. ⁷ Farm value divided by gross production. ⁸ Net production multiplied by net farm price.

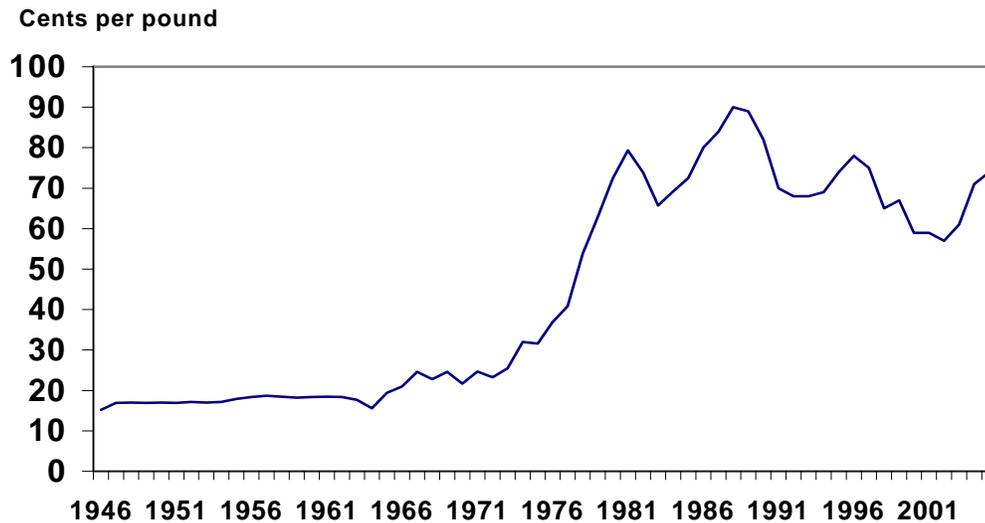
MORE ON THE 2005-2006 SEASON

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Crop losses were estimated at 10.8 million pounds or 16 percent of the total crop. Immature nuts ranked as the highest cause of losses at nearly 28 percent followed by moldy or rotten nuts and stink bug losses with 20 percent each. Overall yields averaged 3,330 pounds per acre (net, wet-in-shell), 5 percent higher than the 2004-05 crop year.

Total acreage for 2005-06 increased 300 acres to 18,300 acres while harvested area totaled 18,000 acres up 200 acres from last season. The statewide estimate of macadamia nut trees totaled 1.3 million. The farm price for net, wet in-shell macadamia nuts averaged 74.0 cents per pound, a penny more than the 2004-05 average.

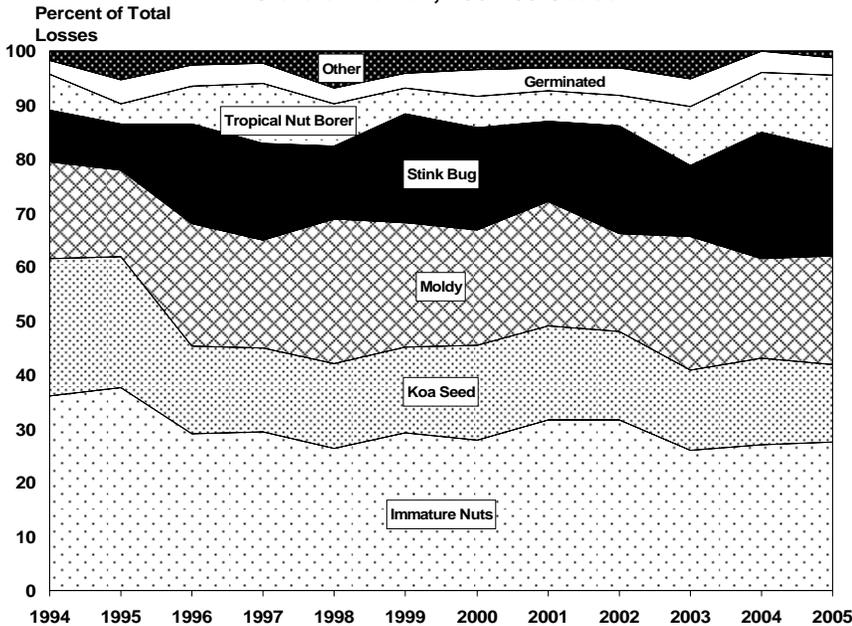
MACADAMIA NUTS: Net Wet-In-Shell Farm Prices, State of Hawaii, 1946-05 Seasons



Crop Losses Slightly Higher

Growers delivered an estimated 67.0 million pounds of macadamia nuts, wet-in-shell, to processors during the 2005-06 season. About 10 percent of the harvest was culled, resulting in 60.0 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 10.8 million pounds, 8 percent more than last season.

**MACADAMIA NUTS: Loss By Cause
State of Hawaii, 1994-05 Season**



Losses from nut immaturity ranked at the top with just over 27 percent of the total losses. Moldy or rotten nuts was the second most common type of loss at 20 percent, followed by losses from stink bug damage at 20 percent. Macadamia nut losses shown in this report include only those culled by processors and do not include losses that were culled at the farm before delivery.

Table 2. MACADAMIA NUTS: Loss by cause, State of Hawaii, 2004-05 and 2005-06

Type of loss	Estimated Loss ¹		Percent of losses		Percent of delivered crop	
	2004-05	2005-06	2004-05	2005-06	2004-05	2005-06
	1,000 pounds		----- Percent -----			
Immature nuts ²	2,685	2,968	27.0	27.5	4.3	4.4
Germinating nuts	388	363	3.9	3.3	0.6	0.5
Moldy, rotten	1,836	2,165	18.5	20.1	2.9	3.2
Stink bug	2,329	2,131	23.4	19.8	3.7	3.2
Koa seed worm	1,605	1,549	16.1	14.4	2.5	2.3
Tropical nut borer	1,104	1,475	11.1	13.7	1.8	2.2
Other causes	0	131	0.0	1.2	0.0	0.2
Total	9,947	10,782	100.0	100.0	15.8	16.0

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, 1946-06

Year ¹	Acreage		Yield per acre ²	Production ³		Farm Price ³		Farm Value ⁷
	In crop	Harvested		Gross ⁴	Net ⁵	Gross ⁶	Net	
	----- Acres -----			-----1,000 pounds -----		-----Cents per pound -----		1,000
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

Year ¹	Acreage		Yield per acre ²	Production ³		Farm Price ³		Farm Value ⁷
	In crop	Harvested		Gross ⁴	Net ⁵	Gross ⁶	Net	
	----- Acres -----			-----1,000 pounds -----		-----Cents per pound -----		1,000
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	3.3	67,000	60,000	66.3	74.0	44,400

¹ Season begins July 1st and ends June 30th of the following year. ² Net production per bearing acre. ³ Wet in-shell basis, delivered to processors. ⁴ Gross pounds delivered for processing. ⁵ Gross pounds delivered for processing less total spoilage. ⁶ Farm value divided by gross production. ⁷ Net production multiplied by net farm price.

U.S. TREE NUT REPORT

U.S Nut Production Down 3 Percent, Value Up 12 Percent

The 2005 U.S nut production is estimated at 1.48 million tons (in-shell basis), a 3 percent decrease from a year earlier. The almond crop totaled 788,800 tons, down 9 percent from 2004. Walnut production for 2005, at 355,000 tons, is up 9 percent from the previous year. The pistachio crop totaled 141,500 tons, 18 percent less than 2004. Pecan production for 2005 is estimated at 140,100 tons, a 51 percent increase from 2004. Macadamia production, at 30,000 tons, is up 6 percent. Hazelnut production, at 27,600 tons, is down 26 percent from the previous year.

The 2005 U.S. value of utilized nut production is estimated at 3.97 billion dollars, up 12 percent from the 2004 value. The almond crop is valued at 2.34 billion dollars, up 7 percent from 2004. Pistachio value for 2005, at 577 million dollars, is 24 percent greater than last year. Walnuts are valued at 540 million dollars, 19 percent more than 2004. The value of the pecan crop increased 24 percent to 407 million dollars. Hazelnut value, at 61.8 million dollars, is 14 percent higher than the previous year. The macadamia value, at 44.4 million dollars, is up 8 percent.

U.S IMPORTS

Table 4. U.S. Macadamia nut imports, by type, 2005

Port of entry	Type							
	Shelled or blanched ¹ Harmonized number: 0802.90.9810		Pickled or otherwise prepared or preserved Harmonized number: 2008.19.9010		Not shelled Harmonized number: 0802.90.8010		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	27	371,162					27	371,162
Buffalo	0	0					0	0
Charleston	31	323,557					31	323,557
Chicago	128	1,314,731					128	1,314,731
Columbia-Snake	230	2,419,898					230	2,419,898
Detroit	0	0					0	0
Honolulu	221	2,859,088			16	215,006	237	3,074,094
Houston	802	9,189,196					802	9,189,196
Laredo	1	4,600					1	4,600
Los Angeles	2,498	28,372,307	2	30,406			2,500	28,402,713
Miami	40	445,551	*	2,196			40	447,747
Mobile	101	1,233,425					101	1,233,425
New York City	1,349	15,714,374	5	28,550			1,354	15,742,924
Norfolk	533	5,822,473					533	5,822,473
Pembina	52	644,797					52	644,797
Philadelphia	94	1,111,341					94	1,111,341
San Francisco	911	9,406,469	113	1,373,793	389	4,502,280	1,413	15,282,542
Savannah	407	5,248,943					407	5,248,943
Seattle	149	1,736,259	3	38,319	1	4,801	153	1,779,379
Total	7,575	86,218,171	124	1,473,264	406	4,722,087	8,105	92,413,522

The conversion for 1 metric ton = 2,204.6 pounds

* = less than 1 metric ton

¹ Since June 1997, 0802.90.9010 was changed to 0802.90.9810

Source: U.S. Department of Commerce

Table 5. International macadamia nut imports by type, 2005

Country of origin	Type							
	Shelled or blanched ¹ Harmonized number: 0802.90.9810		Pickled or otherwise prepared or preserved Harmonized number: 2008.19.9010		Not shelled Harmonized number: 0802.90.8010		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	1,971	22,635,353	3	26,487	265	2,985,202	2,239	25,647,042
Austria	15	200,524					15	200,524
Bolivia	26	290,988					26	290,988
Brazil	486	5,072,703					486	5,072,703
Canada	*	2,600	3	38,319			3	40,919
China	1,101	12,814,072					1,101	12,814,072
Colombia	10	125,041	4	36,256			14	161,297
Costa Rica	137	1,427,297					137	1,427,297
Guatemala	843	8,570,777					843	8,570,777
Hong Kong	16	217,756			54	669,837	70	887,593
India	29	226,280					29	226,280
Italy			*	2,196			*	2,196
Kenya	578	7,342,021	109	1,327,425			687	8,669,446
Malawi	511	5,853,075			41	489,900	552	6,342,975
Mexico	4	48,325					4	48,325
Mozambique	16	157,867					16	157,867
South Africa	1,760	20,478,078			46	577,148	1,806	21,055,226
South Korea			4	12,175			4	12,175
Thailand			2	30,406			2	30,406
Vietnam	72	755,414					72	755,414
Total	7,575	86,218,171	124	1,473,264	406	4,722,087	8,105	92,413,522

The conversion for 1 metric ton = 2,204.6 pounds

* = less than 1 metric ton

¹ Since June 1997, 0802.90.9010 was changed to 0802.90.9810

Source: U.S. Department of Commerce

Table 6. U.S Macadamia nut imports, by type, 1996-2005

Year	Type		
	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled
	<i>Metric tons</i>		
1996	2,481	70	14
1997	2,325	63	266
1998	3,459	40	60
1999	4,730	109	109
2000	5,546	195	114
2001	5,048	126	90
2002	4,256	59	162
2003	6,212	53	204
2004	8,108	163	338
2005	7,575	124	406

Source: U.S. Department of Commerce

U.S. EXPORTS

Table 7. U.S Macadamia nut exports, by country of destination, 2004-2005
Harmonized number: 2008.19.9010

Country of destination	2004		2005	
	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>
Canada	111	644,783	246	1,608,120
China	12	152,050	40	464,211
Colombia	*	2,691	2	18,854
Costa Rica	0	0	1	4,104
Ecuador	0	0	2	24,705
Fed Rep of Germany	*	3,900	6	26,455
France	83	533,202	43	415,458
Greece	0	0	2	12,770
Hong Kong	42	431,858	58	681,821
Israel	12	168,382	0	0
Japan	233	2,726,224	183	2,362,231
Kenya	0	0	11	157,080
Kuwait	*	4,530	0	0
Lebanon	0	0	11	207,900
Mexico	7	47,729	23	117,479
Netherlands	35	525,328	10	30,000
New Zealand	4	48,437	3	34,878
Niger	0	0	33	481,399
Panama	1	6,257	0	0
Republic of Philippines	7	72,770	*	7,450
Saudi Arabia	0	0	8	21,460
Singapore	5	67,273	7	106,034
South Africa	0	0	12	134,105
South Korea	57	600,296	40	456,483
Taiwan	17	220,180	39	650,250
Thailand	3	49,317	3	53,053
United Arab Emirates	1	8,100	1	12,650
Total	630	6,313,307	784	8,088,950

* = less than 1 metric ton. F.A.S. = Free Along Side. Source: U.S. Department of Commerce