



HAWAII MACADAMIA NUTS

Final Season Estimates

FREQUENCY: January & July

RELEASED: August 17, 2000

In this Issue:

Final 1999-00 Season Summary	1-2
1999-00 Crop Loss Assessment	3
U.S. Macadamia Nut Tree Report	4
Historical Data	5
U.S. Imports and Exports	6-8

1999-2000 MACADAMIA NUT PRODUCTION, ACREAGE LOWER

Hawaii's 1999-2000 macadamia nut crop is estimated at **56.5** million pounds net, wet-in-shell, 1.0 million pounds below last season's crop but 3.5 million pounds above the preliminary report released in January 2000 according to the Hawaii Agricultural Statistics Service (HASS). Final overall yields were better than originally anticipated. Weather conditions had mixed effects on orchards depending on location. Some areas



National Agricultural Statistics Service

Hawaii Agricultural Statistics Service
Hawaii Department of Agriculture
P.O. Box 22159
Honolulu, Hawaii 96823-2159
PH (808) 973-9588 FAX: (808) 973-2909
Internet address:

<http://www.nass.usda.gov/hi/fruit/mac-fin.htm>

Donald A. Martin
State Agricultural Statistician
Regina W. Hidano
Agricultural Statistician
Joyce Jay
Statistical Assistant

Contributing: James Yamaki - Hawaii
Llewellyn Suzuki - Hawaii
Naomi Landgraf - Maui
June Okamura - Honolulu & Kauai
Wendell Au - Oahu

MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-99 Seasons

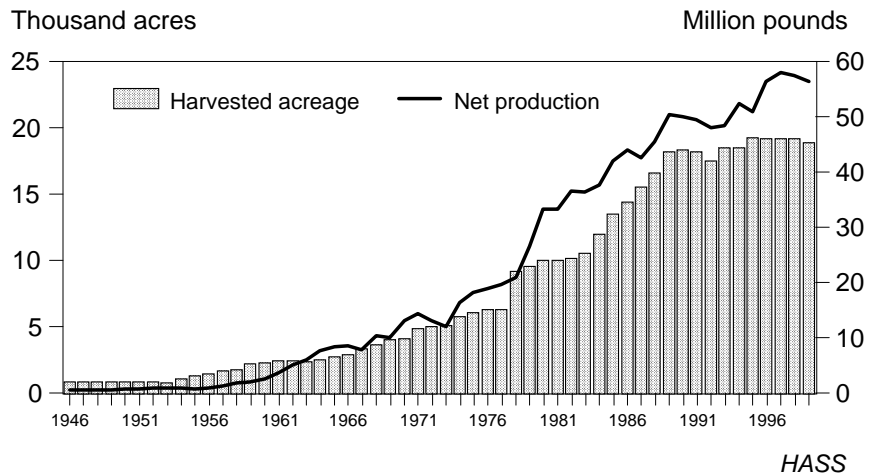


Table 1. MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1995-99 crop years

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			Percent	Percent	Cents per pound	Cents per pound	1,000 dollars
1995-96	⁹ 700	20,300	19,300	2.6	57,000	51,000	18.3	19.4	66.2	74.0	37,740
1996-97	⁹ 750	20,200	19,200	2.9	63,000	56,500	18.6	17.9	70.0	78.0	44,070
1997-98	⁹ 800	20,200	19,200	3.0	65,000	58,000	19.5	19.6	66.9	75.0	43,500
1998-99	800	20,200	19,200	3.0	66,000	57,500	20.5	20.8	57.0	65.0	37,375
1999-00	800	19,900	18,900	3.0	64,000	56,500	19.3	19.3	59.1	67.0	37,855

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. ⁹ Revised.

MORE ON THE 1999-00 SEASON

Continued from Page 1 . . .

received ample rainfall while others experienced an ongoing drought. Acreage abandonments exceeded new plantings, ending a three-year plateau of no change. Overall yields averaged 2,990 pounds per acre (net, wet in-shell), nearly unchanged from the previous season. The average moisture content for this crop season was 19.3 percent compared with 20.5 for the 1998-1999 crop.

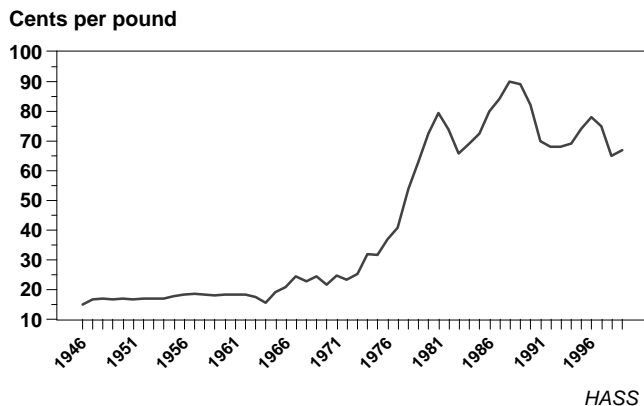
TOTAL, HARVESTED ACREAGE DROP

Total acreage in crop dropped 300 acres from the previous year to 19,900 acres and the lowest total in 14 years. Harvested acreage also declined by 300 acres totaling 18,900 acres. More acreage was abandoned this season along with the announcement that this will be the final season for a major Maui orchard. The statewide estimate of macadamia nut trees totaled 1.4 million, of which 95 percent were 6 years and older.

FARM PRICES MIXED, BUT OVERALL AVERAGE HIGHER

The farm price for net, wet in-shell macadamia nuts averaged 67.0 cents per pound, up 2.0 cents from the 1998-1999 average. Although prices received by some growers were lower than last season, the overall average was influenced in part by higher, long-term contract prices. The farm value for the 1999-2000 crop is estimated at \$37.9 million, up 1.0 percent from the previous year. Hawaii growers continued to feel the impact from increased world competition.

**MACADAMIA NUTS: Net Wet-In-Shell Farm Prices,
State of Hawaii, 1946-99 Seasons**



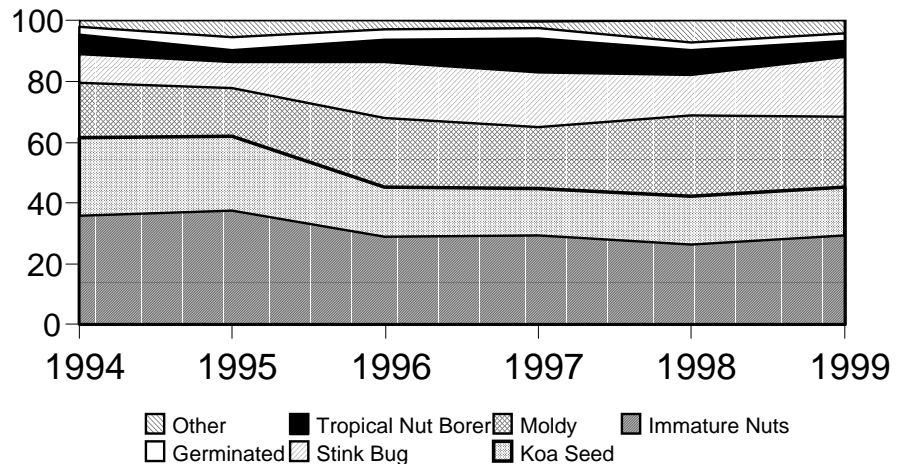
HASS

MACADAMIA NUT LOSSES LOWER

Growers delivered an estimated 64.0 million pounds of macadamia nuts, wet in-shell, to processors during the 1999-00 crop season, of which processors culled 12 percent, resulting in 56.5 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 11.3 million pounds down 12 percent from the 1998-99 crop season. The equivalent farm level value of the losses after the weight adjustments was \$7.6 million, 9 percent less than the 1998-99 crop loss value. 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.

MACADAMIA NUTS: Loss By Cause (1) State of Hawaii, 1994-00 Season

Percent of Total Losses



(1) See Footnotes in Table 2

HASS

Table 2. MACADAMIA NUTS: Loss by cause, State of Hawaii, 1999-00

Type of loss	Estimated loss ¹		Percent of losses		Percent of delivered crop		Dollar value of grower loss	
	1998-99	1999-00	1998-99	1999-00	1998-99	1999-00	1998-99	1999-00
	<i>1,000 pounds</i>		<i>Percent</i>				<i>1,000 dollars</i>	
Immature nuts ²	3,376	3,303	26.3	29.3	5.1	5.2	2,194	2,213
Germinating nuts	364	307	2.8	2.7	.6	.5	237	206
Moldy, rotten	3,429	2,607	26.7	23.1	5.2	4.1	2,229	1,746
Stink bug	1,743	2,271	13.6	20.1	2.7	3.5	1,133	1,522
Koa seed worm	2,034	1,800	15.8	15.9	3.1	2.8	1,322	1,206
Tropical nut borer ³	1,016	537	7.9	4.8	1.5	.8	660	360
Other causes ⁴	882	465	6.9	4.1	1.3	.7	573	312
Total	12,844	11,290	100.0	100.0	19.5	17.6	8,348	7,565

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.

³ Formerly called Shothole borer.

⁴ Includes bacterial nuts, hollow center, etc. Excludes rodent damage.

U.S. TREE NUT REPORT



U.S. Nut Production and Value Show Increases

The 1999 U.S. nut production (in-shell basis) rose sharply to 1,283 tons, a 41 percent increase from a year earlier. A record pecan crop of 406 million pounds was realized in 1999, 177 percent over 1998. Almonds also set a new record, totaling 830 million pounds, up 43 percent. Hazelnuts produced 38,000 tons, up 145 percent from the previous year. Walnut production totaled 283,000 tons, a 25 percent increase. Pistachios, at 123 million pounds, were down 35 percent, and macadamia production, at 56.5 million pounds, was off 2 percent.

The 1999 U.S. value of utilized production increased 9 percent to 1.49 billion dollars. Hazelnut value rose 127 percent, to 33.9 million dollars, despite a lower average price. The record pecan crop accounted for an 86 percent increase in value even though average prices for improved and native seedling nuts were off sharply. Almonds, with 693 million dollars, were off 1 percent but contributed 47 percent of the total nut value.

Table 3. U.S. NUT CROPS: Production, price, value, and utilization, 1998-99

Crop State	Production		Price per unit		Value of utilized production		Utilization				Meat production of nuts sold shelled		
	1998	1999	1998	1999	1998	1999	Sold in-shell		Sold shelled ¹		1998	1999	
							1998	1999	1998	1999			
	<i>Tons (in-shell basis)</i>		<i>Dollars per ton</i>		<i>1,000 dollars</i>		<i>----- Tons (in-shell basis) -----</i>						
HAZELNUTS (FILBERTS)													
Oregon	15,400	37,700	964.00	891.00	14,846	33,591	11,550	20,700	3,850	17,000	1,550	6,600	
Washington	100	300	960.00	900.00	96	270	75	100	25	200	10	80	
Total	15,500	38,000	964.00	891.00	14,942	33,861	11,625	20,800	3,875	17,200	1,560	6,680	
WALNUTS (ENGLISH)													
California	227,000	283,000	1,050.00	810.00	238,350	229,230	53,000	89,000	174,000	194,000	72,000	82,000	
	<i>1,000 pounds (In-shell basis)</i>		<i>Dollars per pound</i>										
PISTACHIOS													
California	188,000	123,000	1.03	1.31	193,640	161,130	138,000	105,000	50,000	18,000	20,800	8,400	
MACADAMIA NUTS													
Hawaii	57,500	56,500	0.65	.67	37,375	37,855							
	<i>1,000 pounds (Shelled basis)</i>												
ALMONDS²													
California	520,000	830,000	1.41	.87	703,590	693,216							
PECANS													
U.S.							19,000	40,500	127,400	365,600	57,000	144,400	

¹ In-shell basis.

² Price and value are based on the edible portion of the crop only. Production includes inedible quantities of no value as follows: 1998 - 21.0 million pounds, 1999 - 33.2 million pounds.

HISTORICAL DATA

Table 4. MACADAMIA NUTS: Acreage, yield, production, price, and value, State of Hawaii, 1946-99

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 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
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

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. IMPORTS

Table 5. U.S. Macadamia nut imports, by type, January - December 1998-99

Name of city	1999					1998	
	Port of entry		Country of origin			Quantity	Custom value
	Quantity	Custom value	Name of country	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>
SHELLED OR BLANCHED ¹							
Harmonized number: 0802.90.9810							
Detroit	7	32,925	Colombia	5	28,010	3,459	29,419,973
Los Angeles	1,214	7,623,684	Guatemala	478	3,577,598		
Miami	435	3,388,383	Costa Rica	128	1,076,777		
New York City	444	2,928,302	Brazil	152	841,505		
Tampa	37	254,847	Spain	8	41,866		
San Francisco	1,663	11,268,037	Mainland China	15	110,697		
Houston	416	2,302,621	Australia	2,323	15,920,607		
Honolulu	60	543,064	Kenya	217	1,217,051		
Baltimore	32	146,020	Rep. of S.A.F.	1,013	5,908,383		
Chicago	103	629,646	Malawi	313	1,957,553		
Seattle	98	536,684	Mozambique	12	78,300		
Dallas	199	1,334,074	Zimbabwe	57	270,440		
Charleston	14	40,500					
Total ²	4,721	31,028,787		4,721	31,028,787	3,459	29,419,973
NOT SHELLED							
Harmonized number: 0802.90.8010							
San Francisco	3	15,199	Mainland China	5	23,331	60	520,815
Miami	49	276,608	Costa Rica	49	276,608		
New York City	55	346,593	Malawi	13	69,550		
Los Angeles	2	12,260	Australia	18	129,078		
			Rep. of S.A.F.	24	152,093		
Total	109	650,660		109	650,660	60	520,815
PICKLED OR OTHERWISE PREPARED OR PRESERVED							
Harmonized number: 2008.19.9010							
Baltimore	2	21,975	Guatemala	2	21,975	40	298,976
New York City	34	140,860	El Salvador	3	22,960		
San Francisco	59	442,355	Costa Rica	67	503,618		
Los Angeles	9	45,124	Lebanon	9	16,035		
Seattle	4	48,116	Malawi	21	98,769		
New Orleans	2	20,554	Canada	4	48,116		
			Indonesia	2	4,415		
			Japan	1	3,096		
Total ²	109	718,984		109	718,984	40	298,976

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

¹ Since June 1997, 0802.90.9010 was changed to 0802.90.9810. ² Totals may not add due to rounding. Source: U.S. Department of Commerce.

Table 6. U.S. Macadamia nut imports, by type, 1984-99

Year	Type		
	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled
<i>Metric tons</i>			
1984	455	5	0
1985	687	31	0
1986	748	32	0
1987	948	107	0
1988	1,088	105	95
1989	1,927	307	86
1990	2,159	126	49
1991	1,427	96	39
1992	1,775	49	28
1993	2,047	84	131
1994	1,726	95	56
1995	2,597	76	34
1996	2,481	70	14
1997	2,898	63	266
1998	3,459	40	60
1999	4,721	109	109

Source: U.S. Department of Commerce.

Table 7. U.S. Macadamia nut imports, by country of origin, 1999

Country of origin	Type			Total
	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled	
<i>Metric tons</i>				
Australia	2,323	0	18	2,341
Brazil	152	0	0	152
Canada	0	4	0	4
Colombia	5	0	0	5
Costa Rica	128	67	49	244
El Salvador	0	3	0	3
Guatemala	478	2	0	480
Indonesia	0	2	0	2
Japan	0	1	0	1
Kenya	217	0	0	217
Lebanon	0	9	0	9
Mainland China	15	0	5	20
Malawi	313	21	13	347
Mozambique	12	0	0	12
Rep. of S. Africa	1,013	0	24	1,037
Spain	8	0	0	8
Zimbabwe	57	0	0	57
Total	4,721	109	109	4,939

Source: U.S. Department of Commerce.

U.S. EXPORTS

Table 8. U.S. Macadamia nut exports, by country of destination, 1998-99
Harmonized number: 2008.19.9010

Country of destination	1998		1999	
	Quantity	F.A.S. value	Quantity	F.A.S. value
	<i>Pounds</i>	<i>U.S. dollars</i>	<i>Pounds</i>	<i>U.S. dollars</i>
Canada	215,806	561,137	227,603	652,989
Mainland China	8,737	63,705	13,018	102,148
Egypt	0	0	4,306	26,812
Fed Rep of Germany	1,667	8,545	0	0
France	13,053	50,693	25,201	65,041
French Polynesia	1,724	6,632	0	0
Guatemala	758	3,621	611	2,939
Hong Kong	85,735	338,624	118,021	562,551
Indonesia	0	0	16,310	66,314
Japan	847,757	4,597,050	956,814	4,704,704
Lebanon	2,476	12,870	0	0
Malaysia	0	0	6,197	26,970
Mexico	0	0	589	3,241
Netherlands	41,178	233,603	63,334	284,432
Norway	4,268	27,932	3,757	26,377
Qatar	619	3,627	0	0
Republic of Korea	72,597	383,714	91,030	458,223
Republic of Philippines	0	0	8,935	61,861
Singapore	2,560	18,879	7,412	74,527
Switzerland	11,001	60,500	0	0
Taiwan	40,721	108,939	26,585	152,783
Thailand	1,550	10,394	5,633	21,396
United Kingdom	56,129	87,128	0	0
Total¹	1,408,336	6,577,593	1,575,354	7,293,308

¹ Totals may not add due to rounding.

F.A.S. = Free Along Side.

Source: U.S. Department of Commerce.