



July 2011

2010 Hawaii Papaya Utilization Lower

In cooperation with



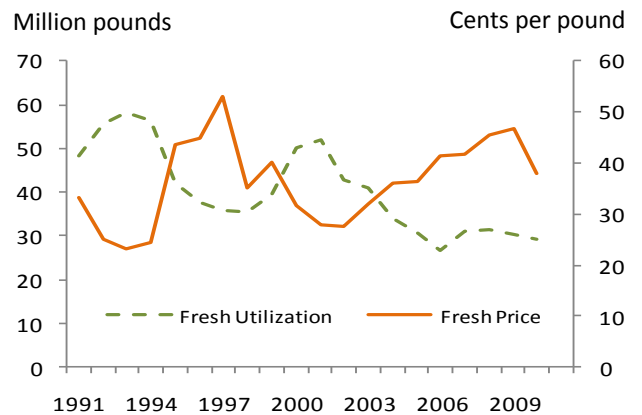
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Hawaii fresh papaya utilization for 2010 is estimated at 30.1 million pounds, down 4 percent from 2009. Fresh utilization accounted for 97 percent of the total or 29.2 million pounds, 4 percent below a year ago. Acreage in crop increased 50 acres to 2,075 and harvested acreage increased 25 acres to 1,350. The papaya value fell 22 percent to \$11.1 million mainly due to lower prices and limited sales.

Weather for 2010 has been dry with some areas under drought conditions. Majority of the papayas are grown on the east side of Hawaii County which has not been affected by the dry

PAPAYAS: Fresh Utilization and Price, State of Hawaii, 1991-2010



conditions as the west side. Honolulu and Kauai Counties received some heavier rain at the end of 2010, creating some low lying flooding conditions. The ongoing concerns for growers were pest and disease problems, low prices, and high cost of inputs. Some growers also noted their buyers have limited the amount of fruits they could purchase. ■

PAPAYAS: Number of Farms, Acreage, Utilization, Farm Price, and Value, State of Hawaii, 2006-2010

Year	Farms	Total Area	Production Area	Utilization			Farm Price			Value of Sales
				Processed	Fresh	All	Processed	Fresh Market	All	
	<i>Number</i>	<i>Acres</i>		<i>1,000 pounds</i>			<i>cents/lb.</i>			<i>\$1,000</i>
2006	170	2,095	1,530	2,100	26,600	28,700	3.0	41.3	38.5	11,049
2007	178	2,065	1,310	2,200	31,200	33,400	3.8	41.7	39.2	13,094
2008	177	2,190	1,380	2,000	31,500	33,500	3.0	45.5	43.0	14,393
2009	177	2,025	1,325	1,200	30,300	31,500	3.0	46.7	45.0	14,186
2010	173	2,075	1,350	900	29,200	30,100	3.0	38.0	37.0	11,123

Papayas: Hawaii State Historical Data

PAPAYAS: Acreage, Utilization, Farm Price, and Value, State of Hawaii, 1946-2010

Year	Farms	Production area	Utilization			Farm Price			Value of Sales
			Processed	Fresh Market	All	Processed	Fresh Market	All	
	<i>Number</i>	<i>Acres</i>	<i>1,000 pounds</i>			<i>cents/lb.</i>			<i>\$1,000</i>
1946		360			7,565			3.2	241
1947		330			5,525			5.4	296
1948		400			7,100			4.3	303
1949		360			5,885			6.0	351
1950		460			6,450			4.2	270
1951		370			5,740			4.8	273
1952		320			7,005			5.7	397
1953		410			9,155			4.7	431
1954		470			10,785			5.2	556
1955		410	1,259	8,076	9,335	2.0	7.1	6.4	601
1956		430	1,746	8,989	10,735	2.1	7.0	6.2	661
1957		540	1,081	13,247	14,328	3.1	5.1	5.0	714
1958	226	610	1,300	13,682	14,982	2.3	5.6	5.3	797
1959	189	570	1,715	12,528	14,243	2.2	5.4	5.0	714
1960	176	500	1,815	10,130	11,945	2.4	6.7	6.0	719
1961	185	570	1,538	13,956	15,494	2.5	5.8	5.5	849
1962	161	540	738	13,472	14,210	2.5	6.0	5.8	826
1963	181	460	2,350	11,725	14,075	6.0	7.8	7.5	1,053
1964	197	750	4,266	17,614	21,880	5.8	4.5	4.7	1,032
1965	200	790	3,237	14,698	17,935	5.3	6.7	6.2	1,120
1966	139	600	3,455	15,225	18,680	3.7	7.9	7.1	1,334
1967	125	760	3,452	19,394	22,846	4.2	8.0	7.4	1,691
1968	120	830	3,465	20,085	23,550	3.9	10.6	9.6	2,260
1969	132	850	2,898	16,337	19,235	3.6	14.0	12.4	2,385
1970	139	1,040	1,022	23,938	24,960	3.9	10.0	9.8	2,436
1971	153	970	1,553	19,172	20,725	3.3	14.0	13.2	2,736
1972	179	985	3,776	21,959	25,735	2.9	15.1	13.3	3,423
1973	176	1,430	3,976	28,848	32,824	3.5	14.0	12.7	4,180
1974	181	1,690	2,695	34,529	37,224	3.1	13.9	13.1	4,871
1975	173	1,840	4,944	34,952	39,896	3.0	15.8	14.2	5,668
1976	178	1,930	6,449	43,588	50,037	3.8	13.5	12.3	6,134

continued

**PAPAYAS: Acreage, Utilization, Farm Price, and Value,
State of Hawaii, 1946-2010 (continued)**

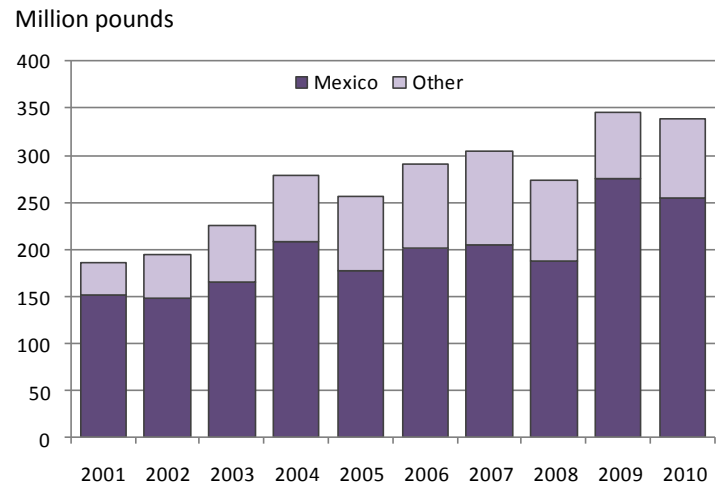
Year	Farms	Production area	Utilization			Farm Price			Value of Sales
			Processed	Fresh Market	All	Processed	Fresh Market	All	
	<i>Number</i>	<i>Acres</i>	<i>1,000 pounds</i>			<i>cents/lb.</i>			<i>\$1,000</i>
1977	186	2,155	9,561	53,987	63,548	4.7	13.2	11.9	7,565
1978	183	2,190	9,376	54,624	64,000	4.6	14.4	13.0	8,304
1979	194	2,210	4,569	36,446	41,015	4.0	25.6	23.2	9,515
1980	197	1,950	3,556	45,360	48,916	3.4	21.7	20.4	9,964
1981	211	2,110	8,220	58,170	66,390	3.1	20.9	18.7	12,413
1982	214	2,170	7,980	44,770	52,750	3.1	25.1	21.8	11,484
1983	227	2,120	15,100	46,300	61,400	4.4	23.6	18.9	11,591
1984	306	2,590	13,500	67,000	80,500	3.1	13.1	11.4	9,196
1985	315	2,650	11,150	49,250	60,400	2.3	16.9	14.2	8,579
1986	311	2,355	10,900	50,100	61,000	2.3	21.7	18.2	11,123
1987	293	2,350	11,000	56,000	67,000	2.2	19.3	16.5	11,050
1988	305	2,300	12,000	57,000	69,000	3.2	21.0	17.9	12,354
1989	325	2,500	10,000	64,000	74,000	3.0	22.0	19.4	14,380
1990	311	2,400	10,500	58,000	68,500	2.9	25.0	21.6	14,805
1991	271	2,025	7,200	48,150	55,350	2.7	33.3	29.3	16,228
1992	259	2,415	15,500	55,800	71,300	3.0	25.0	20.2	14,415
1993	256	2,555	5,500	58,200	63,700	3.1	23.2	21.5	13,673
1994	256	2,200	5,800	56,200	62,000	3.0	24.3	22.3	13,831
1995	244	2,435	8,900	41,900	50,800	3.0	43.5	36.4	18,494
1996	281	1,835	4,000	37,800	41,800	3.0	44.8	40.8	17,054
1997	241	1,985	3,100	35,700	38,800	3.0	52.9	48.9	18,978
1998	262	2,120	4,300	35,600	39,900	3.0	35.0	31.6	12,589
1999	222	1,940	3,000	39,400	42,400	3.0	40.2	37.6	15,929
2000	236	1,650	4,250	50,250	54,500	3.0	31.6	29.4	16,007
2001	221	1,950	3,000	52,000	55,000	3.0	27.9	26.5	14,598
2002	164	1,720	3,200	42,700	45,900	3.0	27.7	26.0	11,924
2003	163	1,565	1,800	40,800	42,600	3.0	31.9	30.7	13,069
2004	207	1,265	1,700	34,100	35,800	3.0	36.1	34.5	12,361
2005	207	1,480	2,200	30,700	32,900	3.0	36.4	34.2	11,241
2006	170	1,530	2,100	26,600	28,700	3.0	41.3	38.5	11,049
2007	178	1,310	2,200	31,200	33,400	3.8	41.7	39.2	13,094
2008	177	1,380	2,000	31,500	33,500	3.0	45.5	43.0	14,393
2009	177	1,325	1,200	30,300	31,500	3.0	46.7	45.0	14,186
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Papayas: U.S. Imports Lower

Fresh papaya imports from foreign sources into the United States totaled 339.3 million pounds in 2010, down 2 percent from the previous year, according to the Department of Commerce. Mexico accounted for 254.0 million pounds or 75 percent of the total. Belize contributed 19 percent and the remaining countries 6 percent of the total.

Total imports by type for 2010 decreased 1 percent from 2009 to 356.7 million pounds due to less fresh papayas. Fresh imports continued to account for the majority or 95 percent of total imports. ■

PAPAYAS: U.S. Fresh Imports, 2001-2010



PAPAYAS: U.S. Fresh Imports, by Country, 2006-2010

Country	2006	2007	2008	2009	2010
	<i>Million pounds</i>				
Mexico	201.0	204.2	187.2	275.0	254.0
Belize	74.7	73.8	62.1	52.4	63.0
Guatemala	2.2	3.4	8.2	4.7	8.6
Brazil	8.1	9.2	8.4	6.4	6.6
Dominican Republic	2.2	11.3	4.7	3.9	4.9
Jamaica	2.9	2.2	2.4	1.7	1.7
Other	.3	.4	1.2	.7	.5
Total	291.4	304.5	274.2	344.8	339.3

* = Less than 100,000 pounds. Source: U.S. Department of Commerce, Bureau of the Census.

PAPAYAS: U.S. Imports, by Type, 2006-2010

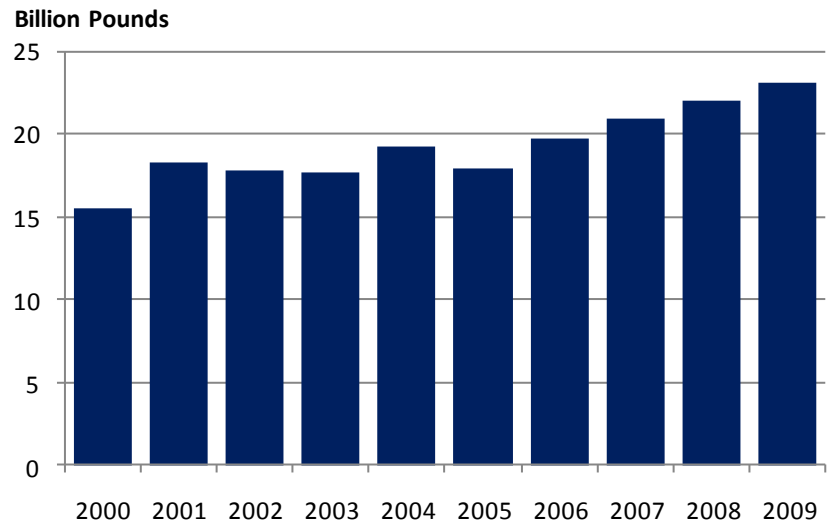
Type	2006	2007	2008	2009	2010
	<i>Million pounds</i>				
Fresh	291.4	304.5	274.2	344.8	339.3
Frozen	2.7	2.2	3.7	5.7	4.6
Dried	3.3	4.8	4.4	3.9	5.2
Paste & Puree	.5	.4	.8	.4	.3
Pulp	1.4	1.5	1.4	.5	.9
Other	9.4	7.9	8.4	6.6	6.4
Total ¹	308.6	321.3	292.8	361.8	356.7

¹ Total may not add due to rounding. Source: U.S. Department of Commerce, Bureau of the Census.

Papayas: World Production

PAPAYAS: World Production, 2000-2009¹

Information for 2010 was not available at the time of printing. Revisions to the papaya data series indicate India continued as the top world producer of papayas followed by Brazil. Together these two countries account for nearly half of the world's papaya production. ■



¹ 2010 data not available.

PAPAYAS: World Production, by Country, 2006-2010¹

Country	2006	2007	2008	2009	2010
	<i>Million pounds</i>				
India	5,472	6,413	8,000	8,624	N.A.
Brazil	4,184	3,994	4,167	3,952	N.A.
Nigeria	1,673	1,687	² 1,518	1,684	N.A.
Indonesia	1,419	1,370	1,440	1,689	N.A.
Mexico	1,761	2,027	1,407	1,559	N.A.
Ethiopia	² 571	² 507	² 551	573	N.A.
Congo, Dem Republic of	480	485	493	485	N.A.
Thailand	397	431	443	456	N.A.
Guatemala	250	407	² 419	433	N.A.
Colombia	363	494	458	417	N.A.
Philippines	346	362	403	389	N.A.
Peru	387	348	369	386	N.A.
Venezuela, Bolivarian Republic of	334	291	282	287	N.A.
Other	2,128	2,073	2,081	2,184	N.A.
Total³	² 19,765	² 20,889	² 22,031	23,118	N.A.

N.A. = Not available. ¹ Data quality can be official, semi-official, estimates, or calculated. ² Revised. ³ Total may not add due to rounding.
Source: Food and Agriculture Organization (FAO), FAOSTAT data, <http://faostat.fao.org/site/291/default.aspx>.

Avocados: Hawaii Production Down But Price Up

Hawaii avocado production for 2010 is estimated at 660 thousand pounds, down 37 percent from 2009. In crop acreage remained unchanged at 440 acres; however, harvested declined 11 percent to 330 acres. Average yields dropped from 2,810 pounds per acre in 2009 to 2,000 pounds per acre in 2010. Weather condition was mainly dry during 2010 affecting crop progress, fruit size, and fruit quality. Growers also mentioned the volcanic haze had affected flowering and fruit set. Majority of the avocados are grown on Hawaii County. Less harvested acreage combined with lower yields reduced the overall output.

Farm price averaged 77.0 cents per pound for the 2010 crop, up 12 percent from the previous year. The value totaled \$508 thousand for the year, declining 29 percent from 2009. ■

AVOCADOS: Number of Farms, Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Farms	Acreage ¹		Yield per Acre ² (Bearing)	Production	Farm Price	Value of Sales
		In crop	Harvested				
		Acres		1,000 pounds		Cents per lb	\$1,000
2006	225	380	330	3.1	1,020	68.0	694
2007	250	390	350	3.3	1,160	68.0	789
2008	250	400	330	3.0	1,000	73.0	730
2009	260	440	370	2.8	1,040	69.0	718
2010	280	440	330	2.0	660	77.0	508

¹ At end of year. ² Yield is based on total production.

AVOCADOS: Bearing Acreage, Average Yield, Production, Price per Ton, and Value, by State and United States, 2008-09 to 2010-11

State and Season	Bearing Acreage	Yield per Acre ¹	Production	Price per Ton	Value
		Acres	Tons	Dollars	1,000 dollars
California					
2008-09	65,000	1.35	88,000	2,280.00	200,640
2009-10	58,500	4.70	274,800	1,510.00	414,948
2010-11	52,200	2.42	126,500	2,400.00	303,600
Florida					
2008-09	7,500	3.66	27,450	480.00	13,176
2009-10	7,400	3.14	23,200	600.00	13,920
2010-11	7,400	3.04	22,500	800.00	18,000
Hawaii					
2008-09	330	1.52	500	1,460.00	730
2009-10	370	1.41	520	1,380.00	718
2010-11	330	1.00	330	1,540.00	508
U.S.					
2008-09	72,830	1.59	115,950	1,850.00	214,546
2009-10	66,270	4.50	298,520	1,440.00	429,586
2010-11	59,930	2.49	149,330	2,160.00	322,108

¹ Yield is based on total production. Source: Noncitrus Fruits and Nuts 2010 Summary – July 2011, National Agricultural Statistics Service, USDA.

Avocados: Hawaii State Historical Data

AVOCADOS: Number of Farms, Acreage, Yield, Production, Price, and Value.
State of Hawaii, 1946-2010

Year	Farms	Acreage ¹		Yield per Acre (Bearing) ²	Production	Farm Price	Value of Sales
		In Crop	Harvested				
	<i>Number</i>	<i>Acres</i>		<i>1,000 pounds</i>		<i>Cents per pound</i>	<i>\$1,000</i>
1946			270	5.0	1,360	9.4	128
1947			270	4.0	1,075	9.2	99
1948			220	4.8	1,055	10.0	106
1949			210	4.7	980	9.7	95
1950			160	6.6	1,048	9.3	97
1951			160	6.7	1,070	9.7	104
1952			150	7.1	1,060	9.1	96
1953			160	6.0	960	9.4	90
1954		200	170	5.7	955	9.1	87
1955		200	170	6.6	1,115	8.8	98
1956		200	170	6.2	1,055	8.2	86
1957		200	175	6.1	1,000	7.4	74
1958		200	175	7.2	1,040	7.2	75
1959		200	180	6.2	1,085	6.1	66
1960		200	180	5.3	940	7.0	66
1961		200	180	5.5	990	7.2	71
1962		200	180	5.9	1,000	6.8	68
1963	190	240	170	6.6	1,030	6.9	71
1964	190	240	170	5.9	995	6.6	66
1965	190	240	170	6.8	1,125	7.0	79
1966	190	290	160	7.5	1,205	7.3	88
1967	170	410	170	7.1	1,200	7.4	89
1968	150	410	170	7.1	1,205	8.0	96
1969	140	400	160	6.3	1,015	9.0	91
1970	130	370	140	6.2	870	10.4	90
1971	130	300	110	7.1	780	11.6	90
1972	130	200	90	11.3	1,015	11.8	120
1973	135	170	100	7.6	757	14.9	113
1974	135	170	100	11.4	1,135	16.5	187
1975	125	150	90	11.3	1,014	18.2	184
1976	121	205	125	9.2	1,150	22.2	255

See footnotes at end of table.

continued

AVOCADOS: Number of Farms, Acreage, Yield, Production, Price, and Value.
State of Hawaii, 1946-2010 (continued)

Year	Farms	Acreage ¹		Yield per Acre (Bearing) ²	Production	Farm Price	Value of Sales
		In Crop	Bearing				
	<i>Number</i>	<i>Acres</i>		<i>1,000 pounds</i>		<i>Cents per pound</i>	<i>\$1,000</i>
1977	124	305	145	6.5	940	25.8	243
1978	127	330	160	5.8	920	28.6	263
1979	142	340	165	7.7	1,270	26.6	338
1980	145	350	200	7.6	1,510	24.5	370
1981	155	370	200	6.0	1,200	26.4	317
1982	160	440	240	6.7	1,600	22.5	360
1983	160	450	250	4.7	1,170	26.1	305
1984	165	505	270	4.3	1,150	25.9	298
1985	160	525	320	3.8	1,220	24.5	299
1986	160	540	330	3.9	1,300	25.6	333
1987	145	500	300	3.0	900	31.5	284
1988	145	580	290	4.1	1,200	36.5	438
1989	140	550	250	4.4	1,100	38.0	418
1990	120	500	250	3.6	900	45.0	405
1991	110	550	280	3.0	840	47.0	395
1992	100	500	220	3.2	700	46.0	322
1993	90	460	250	2.0	500	44.0	220
1994	80	440	220	2.3	500	50.0	250
1995	80	350	210	2.4	500	54.5	273
1996	110	330	200	2.0	400	53.5	214
1997	95	340	250	2.0	500	53.0	265
1998	95	330	240	2.1	500	52.0	260
1999	120	360	230	2.6	600	60.0	360
2000	130	360	220	2.9	640	58.0	371
2001	140	360	230	2.6	600	57.0	342
2002	140	370	250	2.8	700	56.0	392
2003	150	390	300	2.5	760	62.0	471
2004	150	380	270	2.7	740	63.0	466
2005	175	390	300	2.7	800	66.0	528
2006	225	380	330	3.1	1,020	68.0	694
2007	250	390	350	3.3	1,160	68.0	789
2008	250	400	330	3.0	1,000	73.0	730
2009	260	440	370	2.8	1,040	69.0	718
2010	280	440	330	2.0	660	77.0	508

¹ At end of year. ² Yield is based on total production.

Macadamia Nuts: Production Lower, Price Higher

Hawaii's 2010-11 utilized production of macadamia nuts is estimated at 40.0 million pounds net, wet-in-shell according to the USDA, National Agricultural Statistics Service, Hawaii Field Office. This season's estimate represents a 2.0 million pound or 5 percent decline from the previous season and the lowest since the 1984-85 season.

Season Overview

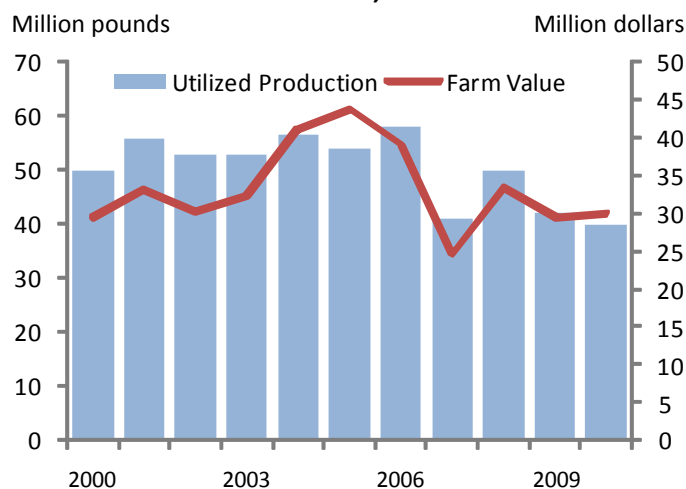
Dry weather contributed to the 2010-11 lower output. Some growers noted it had been the driest year on record. More rainfall should improve orchards and the next season's crop. Other factors contributing to the smaller crop were economics, insects, diseases, feral pigs, and volcanic fog damage on flowers. The average farm prices have begun to improve after recent years of low returns, providing some incentive for growers to maintain their orchards.

Acreage Unchanged, Yields Down

For the 2010-11 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.

Yields averaged 2,670 pounds per acre (net, wet-in-shell basis) for the 2010-11 season, or

MACADAMIA NUTS: Utilized Production and Farm Value, (net, wet-in-shell basis) State of Hawaii, 2000-2010



130 pounds less per acre than the 2009-10 season. Average moisture content for this season's entire crop was 20.3 percent compared with 20.1 percent for the 2009-10 crop.

Farm Price Higher

The farm price for macadamia nuts averaged 75.0 cents per pound on a net, wet-in-shell basis for the 2010-11 crop season, 5.0 cents more than the 2009-10 average and increasing for the third consecutive year. Higher price contributed to the 2 percent rise in farm value from last season to \$30.0 million this season. ■

MACADAMIA NUTS: Number of Farms, Acreage, Yield, Production, Moisture, Price, and Value, State of Hawaii, 2005-06 to 2009-10 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
2006-07	570	17,000	15,000	3.9	65,000	58,000	21.2	22.1	59.8	67.0	38,860
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

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.

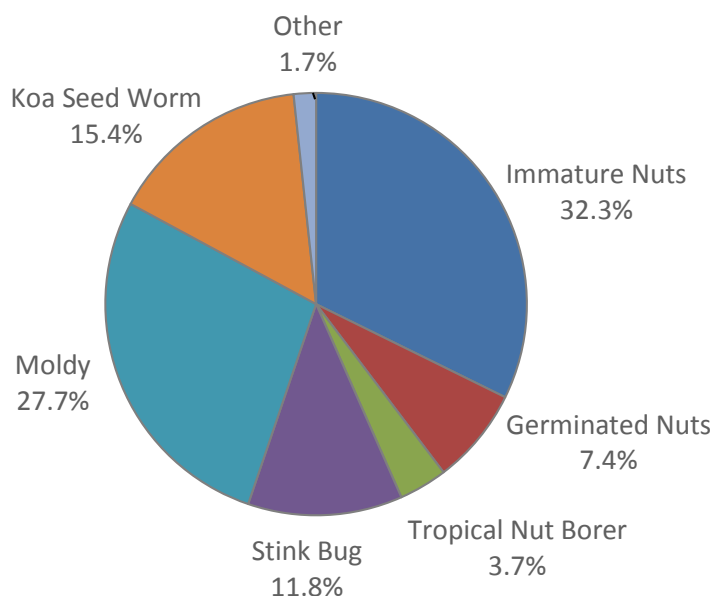
Macadamia Nuts: 2010-11 Crop Loss Assessment

Crop Losses Smaller

Growers delivered an estimated 47.0 million pounds of macadamia nuts, wet-in-shell, to processors during the 2010-11 season. About 15 percent of the harvest was culled, resulting in 40.0 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 10.6 million pounds.

Immature and moldy, rotten nuts accounted for more than half of the crop losses. Damage from insects, Koa Seed Worm, Stink Bug, and Tropical Nut Borer was another contributing cause. 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, 2010-11



MACADAMIA NUTS: Loss by Cause, State of Hawaii, 2008-09 and 2009-10

Type of Loss	Estimated Loss ¹		Percent of Losses		Percent of Delivered Crop	
	2009-10	2010-11	2009-10	2010-11	2009-10	2010-11
	————— 1,000 pounds —————		————— Percent —————			
Immature nuts ²	3,690	3,440	29.2	32.3	7.4	7.3
Moldy, rotten	2,845	2,950	22.5	27.7	5.7	6.3
Koa seed worm	2,085	1,640	16.5	15.4	4.2	3.5
Stink bug	1,650	1,255	13.0	11.8	3.3	2.7
Germinated nuts	515	785	4.1	7.4	1.0	1.7
Tropical nut borer	1,855	395	14.7	3.7	3.7	.8
Other causes	5	180	*	1.7	*	.4
Total	12,645	10,645	100.0	100.0	25.3	22.7

* = 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.

Macadamia Nuts: Hawaii State Historical Data

MACADAMIA NUTS: Acreage, Yield, Production, Price, and Value State of Hawaii, 1946-2010

Year	Acreage		Yield per Acre	Production		Farm Price		Farm Value
	Total	Bearing		Gross	Net	Gross	Net	
	— Acres —		1,000 pounds	— 1,000 pounds —		— Cents per pound —		\$1,000
1946-47	950	860	0.7	NA	630	NA	15.2	96
1947-48	1,340	860	0.8	NA	680	NA	16.9	115
1948-49	1,530	860	0.8	NA	700	NA	17.0	119
1949-50	1,710	860	0.8	NA	680	NA	16.9	115
1950-51	2,150	860	0.9	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	0.9	NA	930	NA	17.1	159
1955-56	3,030	1,300	0.7	NA	903	NA	17.9	162
1956-57	3,200	1,470	0.7	NA	1,027	NA	18.4	189
1957-58	3,120	1,680	0.8	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

See footnotes at end of table.

continued

MACADAMIA NUTS: Acreage, Yield, Production, Price, and Value
State of Hawaii, 1946-2010

Year	Acreage		Yield per Acre	Production		Farm Price		Farm Value
	Total	Bearing		Gross	Net	Gross	Net	
	— Acres —		1,000 pounds	— 1,000 pounds —		— Cents per pound —		\$1,000
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
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	16,000	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

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.

Macadamia Nuts: U.S. Imports

MACADAMIA NUTS: International Imports by Type, 2010

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	1,364	11,946,742	548	3,145,590	46	517,186	1,958	15,609,518
Brazil	248	2,495,836			2	25,845	250	2,521,681
Canada	4	11,832					4	11,832
China	155	1,440,738			205	312,603	360	1,753,341
Costa Rica	60	715,550					60	715,550
Guatemala	849	9,449,149	10	120,396			859	9,569,545
Japan	7	18,962	*	2,025			7	20,987
Kenya	1,498	16,504,865	203	1,928,664			1,701	18,433,529
Malawi	612	5,759,409	34	393,450			646	6,152,859
Mexico	9	92,869					9	92,869
Mozambique	16	183,600	16	108,301			32	291,901
Netherlands	13	91,200					13	91,200
South Africa	2,336	22,634,112	91	799,106	16	24,590	2,443	23,457,808
Swaziland	34	120,468					34	120,468
Switzerland	11	123,099					11	123,099
Thailand			113	447,136			113	447,136
Vietnam	15	173,719					15	173,719
Total	7,231	71,762,150	1,015	6,944,668	269	880,224	8,515	79,587,042

* = 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. Source: U.S. Department of Commerce.

MACADAMIA NUTS: U.S Imports, by Type, 2001-2010

Year	Type		
	Shelled or Blanched	Pickled or Otherwise Prepared or preserved	Not Shelled
	<i>Metric tons</i>		
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
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

Source: U.S. Department of Commerce.

Macadamia Nuts: U.S. Imports

MACADAMIA NUTS: U.S. Imports, by Type, 2010

Port of Entry	Type							
	Shelled or Blanched ¹		Pickled or Otherwise Prepared or Preserved		Not Shelled ²		Total	
	Harmonized number: 0802.60.8000		Harmonized number: 2008.19.9010		Harmonized number: 0802.60.4000			
	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	54	491,976	13	106,800			67	598,776
Buffalo	17	57,226			18	50,435	35	107,661
Charleston	133	877,075					133	877,075
Chicago	56	458,243	90	241,270	183	282,000	329	981,513
Columbia-Snake	16	187,200					16	187,200
Detroit	5	51,990	1	4,586			6	56,576
Honolulu	50	641,658			33	425,826	83	1,067,484
Houston	1,503	14,445,871	16	108,301			1,519	14,554,172
Laredo	1	8,344					1	8,344
Los Angeles	1,159	12,625,990	436	4,831,095			1,595	17,457,085
Miami	9	112,743					9	112,743
New York City	1,100	11,827,263	24	169,788			1,124	11,997,051
Norfolk	983	9,551,523					983	9,551,523
Philadelphia	172	1,504,454	358	932,207			530	2,436,661
San Francisco	1,246	12,967,242			22	30,603	1,268	12,997,845
Savannah	410	3,300,924					410	3,300,924
Seattle	317	2,652,428	77	550,621	13	91,360	407	3,294,409
Total	7,231	71,762,150	1,015	6,944,668	269	880,224	8,515	79,587,042

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. Source: U.S. Department of Commerce.

Macadamia Nuts: U.S. Exports

MACADAMIA NUTS: U.S Exports, by Country of Destination, 2009-2010 Harmonized Number: 2008.19.9010

Country of Destination	2009		2010	
	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	1	20,010	*	6,670
Bahrain	1	6,549		
Canada	304	1,996,813	158	1,190,875
China	11	190,570	5	72,447
Costa Rica			1	11,800
France	45	637,803	62	958,830
French Polynesia	*	4,632	1	5,296
Guatemala	1	7,829		
Hong Kong	46	540,110	72	904,943
Ireland	1	13,418		
Israel	12	122,880	12	146,400
Japan	158	2,150,805	250	3,380,097
Korea, South	19	283,032	40	565,754
Malaysia	*	3,542		
Mexico	24	245,359	44	476,160
Netherlands	5	54,384	7	89,678
Paraguay			1	3,597
Republic of Philippines	5	78,169	6	107,499
Singapore	12	145,634	*	4,099
Switzerland			2	9,713
Taiwan	101	1,533,498	67	1,090,322
Thailand	3	55,530	5	79,561
United Arab Emirates	1	8,445		
United Kingdom	16	118,958		
Total	766	8,217,970	733	9,103,741

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