



# HAWAII MACADAMIA NUTS

## Final Season Estimates

FREQUENCY: January & July

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### 1998-99 MACADAMIA NUT PRODUCTION SLIGHTLY DOWN, PRICE FALLS TO AN 18-YEAR LOW

Hawaii's 1998-99 macadamia nut crop is estimated at a **57.5 million pounds net**, wet-in-shell, 0.5 million pounds less than last year's crop, according to the Hawaii Agricultural Statistics Service (HASS). Weather conditions had mixed effects on production. Early season expectations anticipated the 1998-99 crop would be down 9 percent from the previous season due to drought reduced yields in Ka'u and South Kona. However, better than expected yields from other areas of the Big Island and Maui limited the decline to just 1 percent. Orchards in areas receiving sufficient rainfall experienced better fruit set and additional flowering



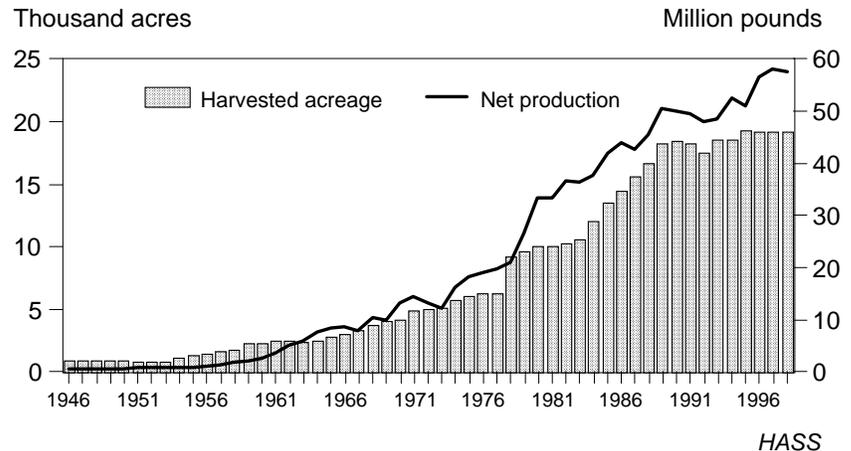
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### MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-98 Seasons



**Table 1. MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1994-98 crop years**

Crop year <sup>1</sup>	Farms	Acreage		Yield per acre <sup>3</sup>	Production <sup>4</sup>		Average moisture		Farm prices <sup>4</sup>		Farm value <sup>8</sup>
		In crop	Harvested <sup>2</sup>		Gross <sup>5</sup>	Net <sup>6</sup>	Entire crop	Purchases only	Gross <sup>7</sup>	Net	
	Number	Acres		1,000 pounds			Percent	Cents per pound		1,000 dollars	
1994-95	650	20,200	18,500	2.8	58,000	52,500	18.4	19.3	62.5	69.0	36,225
1995-96	<sup>9</sup> 700	20,300	19,300	2.6	57,000	51,000	18.3	19.4	66.2	74.0	37,740
1996-97	<sup>9</sup> 750	20,200	19,200	2.9	63,000	56,500	18.6	17.9	70.0	78.0	44,070
1997-98	<sup>9</sup> 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

<sup>1</sup> Season begins July 1st and ends June 30th of the following year. <sup>2</sup> Called bearing acreage prior to 1993-94 crop year. <sup>3</sup> Net production per bearing acre. <sup>4</sup> Wet in-shell basis, delivered to processors. <sup>5</sup> Gross pounds delivered for processing. <sup>6</sup> Gross pounds delivered for processing less total spoilage. <sup>7</sup> Farm value divided by gross production. <sup>8</sup> Net production multiplied by net farm price. <sup>9</sup> Revised.

Continued from Page 1 . . .

extending the harvesting season this past spring. Although net, wet-in-shell production was only down slightly from the previous year, grower prices fell to an 18-year low. Growers and processors point to increased world production, weakness in the Asian economy, and more aggressive marketing of foreign nuts in the U.S. as reasons for the lower returns. Overall yields averaged 2,995 pounds per acre (net, wet in-shell), 26 pounds below the previous season. The average moisture content for this crop season was 20.5 percent compared with 19.5 for the 1997-98 crop.

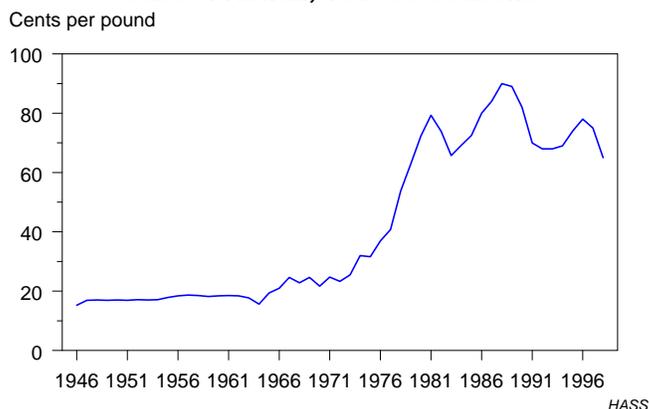
**TOTAL, HARVESTED ACREAGE REMAINS UNCHANGED**

Total acreage in crop remained unchanged from the previous year at 20,200 acres. Harvested acreage totaled 19,200 acres, the same as the previous year. Macadamia nut tree replanting was ongoing during the year. Some growers abandoned acreage, while others replaced macadamia trees with coffee trees. The statewide estimate of macadamia nut trees totaled 1.52 million, of which 95 percent were 6 years and older (Table 2).

**FARM PRICES DOWN**

The farm price for net, wet in-shell macadamia nuts averaged 65.0 cents per pound, dropping 10.0 cents from the 1997-98 average and lowest since the 1979-80 crop year. The farm value for the 1998-99 crop is estimated at \$37.4 million, 14 percent less than the previous year.

**MACADAMIA NUTS: Net Wet-in-shell Farm Prices, State of Hawaii, 1946-98 Seasons**



HASS

**Table 2. MACADAMIA NUTS: Percentage of Trees by Age Breakdown**

Age Breakdown	Percentage (%)
Less than 6 years old	5
6 to 14 years old	17
15 to 25 years old	46
More than 25 years old	32
<b>Total</b>	<b>100</b>

**Table 3. MACADAMIA NUTS: Kernel recovery, price, and value, State of Hawaii, 1989-99**

Crop year	Kernel recovered	Recovery rate <sup>1</sup>	Kernel (bulk shelled)	
			Average whsle. price	Equivalent whsle. value
	Million pounds	Percent	Dollars per pound	1,000 dollars
1989-90	11.9	23.6	6.00	71.4
1990-91	11.7	23.4	4.50	52.7
1991-92	11.9	24.0	4.65	55.3
1992-93	10.3	21.5	4.56	47.0
1993-94	11.2	23.1	4.60	51.5
1994-95	11.1	21.6	4.81	53.4
1995-96	11.8	23.1	4.89	57.7
1996-97	14.3	25.3	4.88	69.8
1997-98	15.5	26.7	4.93	76.4
1998-99	N.A.	N.A.	N.A.	N.A.

<sup>1</sup> Recovery rate = pounds kernel divided by pounds net production (wet in-shell). N.A.=Not available due to insufficient data.

# 1998-99 CROP LOSS ASSESSMENT

## MACADAMIA NUT CROP LOSS HIGHER

Growers delivered an estimated 66.0 million pounds of macadamia nuts, wet in-shell, to processors during the 1998-99 crop season, of which processors culled 13 percent, resulting in 57.5 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 12.8 million pounds up 20 percent from the 1997-98 crop season. The equivalent farm level value of the losses after the weight adjustments was \$8.3 million, 4 percent more than the 1997-98 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.

In the 1998-99 crop season, just over half of the crop losses were attributed to moldy nuts (26.7 percent) and immature nuts (26.3 percent). Koa seed worm (15.8 percent) was nearly the same as last year. The percent losses attributed to Stink bug (13.6 percent) and Tropical nut borer (7.9 percent) were lower than the previous year. More hollow nuts were reported in the other causes this season.

**Table 4. MACADAMIA NUTS: Loss by cause, State of Hawaii, 1997-98**

Type of loss	Estimated loss <sup>1</sup>		Percent of losses		Percent of delivered crop		Dollar value of grower loss	
	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99	1997-98	1998-99
	1,000 pounds		----- Percent -----				1,000 dollars	
Immature nuts <sup>2</sup>	3,158	3,376	29.4	26.3	4.8	5.1	2,268	2,194
Germinating nuts	399	364	3.7	2.8	.6	.6	299	237
Moldy, rotten	2,143	3,429	20.0	26.7	3.3	5.2	1,607	2,229
Stink bug	1,927	1,743	17.9	13.6	3.0	2.7	1,445	1,133
Koa seed worm	1,676	2,034	15.6	15.8	2.6	3.1	1,257	1,322
Tropical nut borer <sup>3</sup>	1,194	1,016	11.1	7.9	1.8	1.5	896	660
Other causes <sup>4</sup>	242	882	2.3	6.9	.4	1.3	182	573
<b>Total</b>	<b>10,739</b>	<b>12,844</b>	<b>100.0</b>	<b>100.0</b>	<b>16.5</b>	<b>19.5</b>	<b>8,054</b>	<b>8,348</b>

<sup>1</sup> 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.

<sup>2</sup> Includes naturally occurring premature drop.

<sup>3</sup> Formerly called Shothole borer.

<sup>4</sup> Includes bacterial nuts, hollow center, etc. Excludes rodent damage.

## MACADAMIA QUICK DECLINE CLAIMS LESS TREES

Macadamia Quick Decline (MQD) claimed an estimated 5,000 trees in 1998, down 2,000 trees from the previous year. Orchards with known susceptible cultivars experienced higher losses. In 1998, trees lost for other reasons such as wind and disease numbered 3,000 compared with 21,000 from the previous year. The large losses in 1997 were largely due to a strong winter storm in early February.



# U.S. TREE NUT REPORT

## U.S. NUT PRODUCTION AND VALUE DROP SHARPLY

The 1998 U.S. nut production (in-shell basis) dropped 24 percent to 907,800 tons. Pistachios, at 188 million pounds, were the only tree nut to show a production increase over 1997, up 4 percent. Hazelnut production led the declines, plummeting 67 percent to 15,500 tons. Pecans fell 56 percent to a production level of 146 million pounds. Almonds, at 520 million pounds, showed a decline of 31 percent. Walnuts were off 16 percent with 227,000 tons produced. Alternate bearing cycles and adverse weather were the primary causes of the decreases.

The 1998 U.S. value of utilized production decreased 35 percent to 1.35 billion dollars. Hazelnut value, at 14.9 million dollars, was down 65 percent despite an improved price per ton. Almonds accounted for 699 million dollars, down 40 percent. Macadamias, at 37.4 million dollars, and pistachios, at 194 million dollars, were off 14 percent and 5 percent, respectively. In spite of drastically lower production, the pecan value was only off 32 percent due to sharply higher prices.

**Table 5. U.S. NUT CROPS: Production, price, value, and utilization, 1997-98**

Crop State	Production		Price per unit		Value of utilized production		Utilization				Meat production of nuts sold shelled	
	1997	1998	1997	1998	1997	1998	Sold in-shell		Sold shelled <sup>1</sup>		1997	1998
							1997	1998	1997	1998		
	<i>Tons (in-shell basis)</i>		<i>Dollars per ton</i>		<i>1,000 dollars</i>		<i>----- Tons (in-shell basis) -----</i>					
<b>HAZELNUTS (FILBERTS)</b>												
Oregon	46,650	15,400	899.00	964.00	41,938	14,846	22,000	11,550	24,650	3,850	8,950	1,550
Washington	350	100	940.00	960.00	329	96	200	75	105	25	60	10
Total	47,000	15,500	899.00	964.00	42,267	14,942	22,200	11,625	24,800	3,875	9,010	1,560
<b>WALNUTS (ENGLISH)</b>												
California	269,000	227,000	1,430.00	1,010.00	384,670	229,270	77,000	62,000	192,000	165,000	79,000	68,000
	<i>1,000 pounds (In-shell basis)</i>		<i>Dollars per pound</i>				<i>Marketable In-shell</i>		<i>Shelling stock</i>		<i>----- 1,000 pounds -----</i>	
<b>PISTACHIOS</b>												
California	180,000	188,000	1.13	1.03	203,400	193,640	137,000	138,000	43,000	50,000	17,900	20,200
<b>MACADAMIA NUTS</b>												
Hawaii	58,000	57,500	0.75	.65	43,500	37,375						
	<i>1,000 pounds (Shelled basis)</i>											
<b>ALMONDS<sup>2</sup></b>												
California	759,000	520,000	1.56	1.40	1,160,640	698,600						
	<i>----- 1,000 pounds (In-shell basis) -----</i>											
<b>PECANS</b>												
U.S.							36,500	19,000	298,500	127,400	132,000	57,000

<sup>1</sup> In-shell basis.

<sup>2</sup> Price and value are based on the edible portion of the crop only. Production includes inedible quantities of no value as follows: 1997 - 15.0 million pounds, 1998 - 21.0 million pounds.

# HISTORICAL DATA

**Table 6. MACADAMIA NUTS: Acreage, yield, production, price, and value, State of Hawaii, 1946-98**

Year <sup>1</sup>	Acreage		Yield per acre <sup>2</sup>	Production <sup>3</sup>		Farm price <sup>3</sup>		Farm value <sup>7</sup>
	In crop	Harvested		Gross <sup>4</sup>	Net <sup>5</sup>	Gross <sup>6</sup>	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
<b>1998-99</b>	<b>20,200</b>	<b>19,200</b>	<b>3.0</b>	<b>66,000</b>	<b>57,500</b>	<b>57.0</b>	<b>65.0</b>	<b>37,375</b>

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

# U.S. IMPORTS

**Table 7. U.S. Macadamia nut imports, by type, January - December 1997-98**

Name of city	1998					1997	
	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>
<b>SHELLED OR BLANCHED <sup>1</sup></b>							
<b>Harmonized number: 0802.90.9810</b>							
Philadelphia	20	187,230	Mexico	3	18,894	<b>2,898</b>	<b>28,531,494</b>
Los Angeles	873	8,249,056	Guatemala	379	3,629,415		
Miami	366	3,656,648	Costa Rica	184	1,639,327		
New York City	331	2,618,250	Brazil	93	676,835		
Tampa	45	383,256	Spain	9	56,151		
San Francisco	808	6,006,620	China	19	158,462		
Houston	485	3,678,534	Australia	1,979	17,788,481		
Honolulu	188	1,792,169	Kenya	241	1,568,099		
Baltimore	48	276,202	Rep. of S.A.F.	500	3,535,371		
Chicago	181	1,667,356	Malawi	50	348,938		
El Paso	3	18,894					
Dallas	29	217,211					
Savannah	16	159,600					
Charleston	64	505,047					
Seattle	1	3,900					
<b>Total <sup>2</sup></b>	<b>3,459</b>	<b>29,419,973</b>		<b>3,459</b>	<b>29,419,973</b>	<b>2,898</b>	<b>28,531,494</b>
<b>NOT SHELLED</b>							
<b>Harmonized number: 0802.90.8010</b>							
San Francisco	7	14,639	Mainland China	22	156,028	<b>266</b>	<b>2,622,528</b>
Miami	19	222,920	Guatemala	19	222,920		
New York City	19	139,767	Malawi	11	70,752		
Los Angeles	16	143,489	Australia	*	2,100		
			Rep. of S.A.F.	8	69,015		
<b>Total <sup>2</sup></b>	<b>60</b>	<b>520,815</b>		<b>60</b>	<b>520,815</b>	<b>266</b>	<b>2,622,528</b>
<b>PICKLED OR OTHERWISE PREPARED OR PRESERVED</b>							
<b>Harmonized number: 2008.19.9010</b>							
Chicago	11	74,991	Guatemala	22	171,095	<b>63</b>	<b>597,704</b>
New York City	4	41,420	El Salvador	7	51,714		
San Francisco	13	82,836	Costa Rica	11	72,000		
Miami	3	10,294	Singapore	*	4,167		
Seattle	*	4,167					
Minneapolis	9	85,268					
<b>Total</b>	<b>40</b>	<b>298,976</b>		<b>40</b>	<b>298,976</b>	<b>63</b>	<b>597,704</b>

\* = Less than 1 metric ton. The conversion for 1 metric ton = 2,204.6 pounds.

<sup>1</sup> The Harmonized numbers used for 1997 total shelled or blanched macadamia nuts were 0802.90.9010 and 0802.90.9810. Since June 1997, 0802.90.9010 was changed to 0802.90.9810. <sup>2</sup> Totals may not add due to rounding. Source: U.S. Department of Commerce.

**Table 8. U.S. Macadamia nut imports, by type, 1984-98**

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	77	33
1996	2,481	70	13
1997	2,898	63	266
<b>1998</b>	<b>3,459</b>	<b>40</b>	<b>60</b>

Source: U.S. Department of Commerce.

**Table 9. U.S. Macadamia nut imports, by country of origin, 1998**

Country of origin	Type			Total <sup>1</sup>
	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled	
<i>Metric tons</i>				
Australia	1,979	0	*	1,979
Brazil	93	0	0	93
Costa Rica	184	11	0	195
El Salvador	0	7	0	7
Guatemala	379	22	19	420
Kenya	241	0	0	241
Mainland China	19	0	22	41
Malawi	50	0	11	61
Mexico	3	0	0	3
Rep. of S. Africa	500	0	8	508
Singapore	0	*	0	*
Spain	9	0	0	9
<b>Total <sup>1</sup></b>	<b>3,459</b>	<b>40</b>	<b>60</b>	<b>3,559</b>

\* = Less than 1 metric ton. <sup>1</sup> Totals may not add due to rounding.

Source: U.S. Department of Commerce.

# U.S. EXPORTS

**Table 10. U.S. Macadamia nut exports, by country of destination, 1997-98**  
**Harmonized number: 2008.19.9010**

Country of destination	1997		1998	
	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>
Belgium	5,476	38,573	0	0
Canada	188,590	475,622	215,806	561,137
Mainland China	9,936	37,584	8,737	63,705
China (Taiwan)	128,815	666,467	40,721	108,939
Denmark	880	3,341	0	0
Fed Rep of Germany	0	0	1,667	8,545
France	103,416	282,271	13,053	50,693
French Polynesia	0	0	1,724	6,632
Guatemala	0	0	758	3,621
Hong Kong	375,401	1,590,705	85,735	338,624
Indonesia	362	2,976	0	0
Italy	999	7,756	0	0
Jamaica	1,499	7,875	0	0
Japan	1,236,042	7,361,258	847,757	4,597,050
Lebanon	12,478	45,145	2,476	12,870
Netherlands	14,427	90,511	41,178	233,603
Norway	5,302	41,100	4,268	27,932
Qatar	0	0	619	3,627
Republic of Korea	163,359	1,058,586	72,597	383,714
Singapore	5,130	37,995	2,560	18,879
Switzerland	62,725	204,205	11,001	60,500
Thailand	4,114	31,091	1,550	10,394
United Kingdom	0	0	56,129	87,128
<b>Total<sup>1</sup></b>	<b>2,318,950</b>	<b>11,983,061</b>	<b>1,408,336</b>	<b>6,577,593</b>

<sup>1</sup> Totals may not add due to rounding.

F.A.S. = Free Along Side.

Source: U.S. Department of Commerce.