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## Section 22

# MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information on manufacturing workers appears in Sections 12 and 15.

Sources for data on this subject include the *U.S. 2007 Economic Census*, the *U.S. Annual Survey of Manufactures*, publications of the Hawaii State Department of Agriculture and the Hawaii State Department of Taxation, and the *Hawaiian Sugar Manual* of the former Hawaiian Sugar Planters' Association, now the Hawaii Agriculture Research Center. *Historical Statistics of Hawaii*, Section 16, contains the figures for earlier years. Statistics for the nation as a whole appear in Section 21 of the *Statistical Abstract of the United States: 2010*.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES  
(NAICS 31- 33): 2003 TO 2008**

[In millions of dollars unless otherwise noted. Industry groups with 950 employees or more.  
Statistics based on the North American Industry Classification System (NAICS)]

<b>Subject</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
All employees						
Number (1,000)	13.6	14.0	14.0	14.0	14.1	13.3
Payroll	434.4	518.5	481.0	503.8	511.5	502.2
Production workers						
Number (1,000) 1/	9.0	8.8	9.0	9.0	9.5	8.3
Hours (millions)	17.6	18.6	18.7	18.1	17.5	16.3
Wages	269.1	319.2	282.5	299.5	294.4	268.9
Value added by manufacture	1,224.5	1,477.8	1,847.6	2,049.1	3,013.7	1,708.3
Cost of materials 2/	2,641.9	3,092.7	4,716.2	5,301.5	5,812.5	6,647.2
Value of shipments 2/	3,879.7	4,519.0	6,442.6	7,301.0	8,799.3	8,529.0
Total capital expenditures	91.3	98.3	146.4	173.5	86.7	135.8

1/ For years 2003 to 2005, average number of production workers for the payroll periods that include the 12th of March, May, August, and November, plus other employees for the payroll period that includes the 12th of March. For years 2006 to 2008, average number of production workers for the payroll periods that include the 12th of March, June, September, and December, plus other employees for the payroll period that includes the 12th of March.

2/ Aggregate of total cost of materials and total value of shipments includes extensive duplication, since products of some industries are used as materials of others.

Source: U.S. Census Bureau, *Annual Survey of Manufactures, Geographic Area Statistics, 2003*, M03(AS)-3 (May 2005), table 2; *2004*, M04(AS)-3 (January 2006), table 2; *2005*, M05 (AS)-3 (November 2006), table 2; *2006* (December 2006) <<http://www.census.gov/mcd/asm-as3.html>> accessed March 5, 2008; *2008* (March 2010) <[http://www.census.gov/econ/census07/www/get\\_data.html](http://www.census.gov/econ/census07/www/get_data.html)> accessed June 9, 2010.

**Table 22.02-- DETAILED MANUFACTURING STATISTICS  
(NAICS 31 - 33): 2002 AND 2007**

[Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

Item	Value	
	2002	2007
Companies 1/	(NA)	942
All establishments 2/	929	984
1 to 19 employees	772	813
20 to 99 employees	135	148
100 employees or more	22	23
All employees 3/	13,200	14,127
Total compensation (\$1,000)	512,860	674,489
Annual payroll	421,269	511,486
Total fringe benefits	91,591	163,003
Production workers, average for year	8,865	9,487
On March 12	8,858	9,671
On May 12	8,830	9,478
On August 12	8,880	9,416
On November 12	8,859	9,383
Production-worker hours (1,000)	16,837	17,480
Production-worker wages (\$1,000)	254,713	294,394
Total cost of materials (\$1,000)	2,246,539	5,812,515
Materials, parts, containers, packaging, etc., used	1,904,259	5,010,642
Resales	246,016	632,000
Purchased fuels	41,001	98,510
Purchased electricity	21,969	32,373
Contract work	33,294	38,990
Quantity of electricity purchased for heat and power (1,000 kWh)	204,563	193,390
Quantity of electricity generated less sold for heat and power (1,000 kWh)	356,114	(D)
Total value of shipments (\$1,000)	3,460,199	8,799,266
Value of resales	280,656	730,979
Value added (\$1,000)	1,217,728	3,013,731
Total inventories, beginning of year (\$1,000)	366,172	761,942
Finished goods	195,042	485,768
Work-in-process	74,346	(D)
Materials and supplies	96,784	(D)

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**Table 22.02-- DETAILED MANUFACTURING STATISTICS  
(NAICS 31 - 33): 2002 and 2007 -- Con.**

Item	Value	
	2002	2007
Total inventories, end of year (\$1,000)	370,990	776,859
Finished goods	237,652	542,393
Work-in-process	31,358	69,898
Materials and supplies	101,980	164,568
Gross value of depreciable assets (acquisition costs) at beginning of year (\$1,000)	1,386,417	1,788,164
Total capital expenditures (new and used)	82,960	86,735
Buildings and other structures	13,569	15,982
Machinery and equipment	69,391	70,753
Automobiles, trucks, etc., for highway use	5,399	6,713
Computers and peripheral data processing equipment	4,080	8,606
All other expenditures for machinery and equipment	59,912	55,434
Total retirements	33,527	88,206
Gross value of depreciable assets at end of year (\$1,000)	1,435,850	1,786,693
Depreciation charges during year (\$1,000)	76,908	83,345
Total rental payments (\$1,000)	51,216	49,759
Buildings and other structures	36,161	31,654
Machinery and equipment	15,055	18,105

NA Not available.

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

2/ Includes establishments with payroll at any time during the year.

3/ Average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Source: U.S. Census Bureau, *2002 Economic Census, Manufacturing, Geographic Area Series, Hawaii, EC02-31A-HI (RV)* (September 2005), table 5 <<http://www.census.gov/prod/ec02/ec0231ahi.pdf>> accessed October 6, 2005; *2007 Economic Census, Manufacturing, Geographic Area Series, Detailed Statistic for the State: 2007* (April 2010), <[http://www.census.gov/econ/census07/www/get\\_data.html](http://www.census.gov/econ/census07/www/get_data.html)> accessed June 9, 2010.

**Table 22.03-- STATISTICAL SUMMARY OF MANUFACTURING  
(NAICS 31 - 33), BY COUNTY: 2007**

[For the State, industries with 100 employees or more; for the counties, industries with 500 employees or more. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

<b>Subject</b>	<b>State total</b>	<b>City and County of Honolulu</b>	<b>Hawaii County</b>	<b>Maui County</b>
All establishments 1/ With 20 employees or more	984 171	684 138	138 17	114 11
All employees				
Number	14,127	10,996	1,516	1,319
Payroll (\$1,000)	511,486	398,932	53,572	50,718
Production workers				
Number 2/	9,487	7,322	1,055	901
Hours (1,000)	17,490	13,464	1,848	1,844
Wages (\$1,000)	294,394	224,670	33,650	30,987
Value added by manufacture (\$1,000)	3,013,731	2,694,778	136,290	160,916
Cost of materials 3/ (\$1,000)	5,812,515	5,545,636	142,641	101,402
Value of shipments 3/ (\$1,000)	8,799,266	8,201,881	290,120	262,749
Total capital expenditures (\$1,000)	86,735	51,694	16,076	17,382

1/ Includes establishments with payroll at any time during the year.

2/ Average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

3/ Aggregate of cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Census Bureau, 2007 *Economic Census, Manufacturing, Geographic Area Series, Industry Statistics for the States, Metropolitan and Micropolitan Statistical Areas, Counties, and Places: 2007* (April 2010) <[http://www.census.gov/econ/census07/www/get\\_data.html](http://www.census.gov/econ/census07/www/get_data.html)> accessed June 9, 2010.

**Table 22.04-- MANUFACTURING, BY SELECTED INDUSTRY GROUP  
(NAICS 31 - 33): 2007**

[Industry groups with 950 employees or more. Statistics based on the North American Industry Classification System (NAICS)]

<b>Subject</b>	<b>Total</b>	<b>Food NAICS 311</b>	<b>Food, bakeries &amp; tortilla NAICS 3118</b>	<b>Other food NAICS 3119</b>	<b>Printing &amp; related support NAICS 323</b>	<b>Non- metallic mineral NAICS 327</b>	<b>Miscel- laneous NAICS 339</b>	<b>Other miscel- laneous NAICS 3399</b>
All employees								
Number 1/	14,127	5,322	2,032	1,081	1,308	1,092	1,286	1,026
Payroll (\$1,000)	511,486	155,013	49,938	29,353	46,159	57,694	42,919	34,851
Production workers								
Number 1/	9,487	3,896	1,395	769	875	749	614	439
Hours (1,000)	17,490	6,914	2,204	1,256	1,621	1,595	1,004	681
Wages (\$1,000)	294,394	100,759	31,107	16,483	26,390	38,070	15,046	8,830
Value added (\$1,000)	3,013,731	406,693	133,412	108,659	(D)	208,435	59,426	44,742
Total cost of materials (\$1,000) 2/	5,812,515	485,654	50,144	101,961	(D)	164,946	51,385	44,298
Total value of shipments (\$1,000) 2/	8,799,266	909,158	183,702	226,798	(D)	371,358	108,639	86,845
Total capital expenditures (\$1,000)	86,735	26,814	3,360	4,644	4,783	12,508	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Average number of production workers for the March 12, June 12, September 12, and December 12 pay periods, plus other employees for the payroll period that includes the 12th of March.

2/ Aggregate of total cost of materials and total value of shipments includes extensive duplication, since products of some industries are used as materials of others.

Source: U.S. Census Bureau, 2008 Geographic Area Statistics, "2008 Annual Survey of Manufactures"  
<<http://www.census.gov/manufacturing/asm/index.html>> accessed June 16, 2010.

**Table 22.05-- MANUFACTURING, BY SELECTED INDUSTRY GROUP  
(NAICS 31 - 33): 2008**

[Industry groups with 950 employees or more. Statistics based on the North American Industry Classification System (NAICS)]

<b>Subject</b>	<b>Total</b>	<b>Food NAICS 311</b>	<b>Food, bakeries &amp; tortilla NAICS 3118</b>	<b>Other food NAICS 3119</b>	<b>Printing &amp; related support NAICS 323</b>	<b>Non- metallic mineral NAICS 327</b>	<b>Miscel- laneous NAICS 339</b>	<b>Other miscel- laneous NAICS 3399</b>
All employees								
Number 1/	13,300	4,743	1,880	(NA)	1,138	1,074	1,405	1,111
Payroll (\$1,000)	502,195	144,907	46,622	(NA)	46,236	53,984	33,147	24,736
Production workers								
Number 1/	8,301	3,285	1,313	(NA)	680	737	445	268
Hours (1,000)	16,282	6,080	2,204	(NA)	1,555	1,446	803	451
Wages (\$1,000)	268,862	85,903	29,793	(NA)	22,988	35,262	11,404	6,448
Value added (\$1,000)	1,708,310	423,928	107,467	(NA)	(D)	(D)	58,119	42,651
Total cost of materials (\$1,000) 2/	6,647,153	514,040	89,353	(NA)	(D)	(D)	38,882	31,290
Total value of shipments (\$1,000) 2/	8,528,964	938,531	196,999	(NA)	157,297	293,686	94,324	71,182
Total capital expenditures (\$1,000)	135,776	40,973	7,584	(NA)	4,728	13,300	3/ 4,258	3/ 3,960

NA Not available.

D Withheld to avoid disclosing data for individual companies.

1/ Average number of production workers for the March 12, June 12, September 12, and December 12 pay periods, plus other employees for the payroll period that includes the 12th of March.

2/ Aggregate of total cost of materials and total value of shipments includes extensive duplication, since products of some industries are used as materials of others.

3/ Sampling error exceeds 40 percent.

Source: U.S. Census Bureau, 2008 Geographic Area Statistics, "2008 Annual Survey of Manufactures"  
<<http://www.census.gov/manufacturing/asm/index.html>> accessed June 16, 2010.



**Table 22.06-- MANUFACTURING, EMPLOYMENT AND WAGES  
(NAICS 31-33), BY SELECTED NAICS CODE: 2008**

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to 1997]

NAICS code	Kind of business	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
	Total	1,058	14,875	577,502	38,824
311	Food	311	6,128	173,725	28,351
3112	Grain and oilseed milling	4	54	1,731	32,104
3113	Sugar & confectionery product	23	847	29,865	35,263
3114	Fruit & vegetable preserving & specialty	23	502	17,682	35,247
3115	Dairy product	15	356	16,805	47,239
3116	Animal slaughtering & processing	19	555	15,599	28,107
3118	Bakeries & tortilla	134	2,108	49,558	23,513
3119	Other food	90	1,670	41,637	24,937
312	Beverage and tobacco product	34	909	39,112	43,023
3121	Beverage	34	909	39,112	43,023
313	Textile mills	4	53	1,413	26,528
314	Textile product mills	30	240	6,886	28,670
315	Apparel	65	579	12,804	22,110
321	Wood product	33	(1/)	(1/)	(1/)
3212	Plywood & engineered wood product	9	204	7,454	36,522
322	Paper	8	150	8,691	58,067
323	Printing & related support activities	122	1,082	38,114	35,233
325	Chemical	32	349	15,655	44,877
3253	Agricultural chemical	5	62	2,366	37,908
3256	Soap, cleaning compound, and toiletry	13	77	1,916	24,916
326	Plastics & rubber products	17	267	11,052	41,356
327	Nonmetallic mineral product	71	1,151	64,425	55,993
3271	Clay product and refractory	7	31	659	20,988
3272	Glass & glass product	11	50	1,658	33,211
3273	Cement & concrete product	31	871	53,980	61,981
3279	Other nonmetallic mineral products	22	198	8,128	40,981
332	Fabricated metal product	46	449	21,616	48,124
333	Machinery	7	48	1,924	39,945
334	Computer & electronic product	14	125	7,568	60,623
3345	Electronic instrument	11	110	6,868	62,393
336	Transportation equipment	30	827	47,784	57,815
3366	Ship & boat building	22	784	45,868	58,511

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**Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES  
(NAICS 31-33), BY SELECTED NAICS CODE: 2008 -- Con.**

<b>NAICS code</b>	<b>Kind of business</b>	<b>Average establishments</b>	<b>Annual average employment</b>	<b>Total annual wages (\$1,000)</b>	<b>Annual wages per employee</b>
337	Furniture & related product	72	547	23,990	43,892
3371	Household and institutional furniture	62	429	18,780	43,785
339	Miscellaneous	152	1,067	35,827	33,580
3391	Medical equipment & supplies	42	282	11,121	39,400
3399	Other miscellaneous	110	785	24,707	31,487

1/ Data do not meet Bureau of Labor Statistics or State agency disclosure standards.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2008*, table 10 <<http://www.bls.gov/cew/cewbultn08.htm>> accessed June 9, 2010.

**Table 22.07-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:  
1987 TO 2009**

[In thousands of dollars. Data exclude sugar processing, pineapple canning, and petroleum refining, and are on a cash basis accounting. Manufactured goods shipped out of State were exempted from the general excise tax by Act 239, SLH 1987, effective January 1, 1988. Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ending November 30]

Year	Tax base	Year	Tax base	Year	Tax base
1987	595,140	1995	614,771	2003	638,863
1988	629,303	1996	622,889	2004	642,245
1989	630,997	1997	581,259	2005	738,573
1990	728,387	1998	535,371	2006	781,626
1991	714,407	1999	585,305	2007	766,208
1992	714,470	2000	586,039	2008	795,352
1993	717,423	2001	611,292	2009	752,237
1994	618,238	2002	612,658		

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual) and as revised. Beginning in 1997, <[http://www.state.hi.us/tax/a5\\_3txcolrptarchive.htm](http://www.state.hi.us/tax/a5_3txcolrptarchive.htm)> accessed June 10, 2010.

**Table 22.08-- INDUSTRIAL AND HIGH-TECHNOLOGY PARKS,  
BY ISLAND: 2007 TO 2009**

<b>Subject</b>	<b>State total</b>	<b>Hawaii</b>	<b>Maui</b>	<b>Molokai</b>	<b>Oahu</b>	<b>Kauai</b>
2007						
Number of parks	25	4	4	1	14	2
Total acres	4,772.20	1,794.00	751.00	16.50	2,141.70	69.00
Developed acres	2,863.50	512.00	208.00	6.70	2,068.30	68.50
Number of tenants 1/	1,692	184	616	1	834	57
Number of owners 2/	418	4	147	9	178	80
2008						
Number of parks	25	4	5	1	13	2
Total acres	4,866.80	1,867.00	776.30	16.50	2,138.00	69.00
Developed acres	3,067.12	717.00	232.30	6.70	2,042.12	69.00
Number of tenants 3/	1,101	184	20	1	836	60
Number of owners 4/	629	86	248	9	193	93
2009						
Number of parks	25	4	5	1	13	2
Total acres	5,018.50	1,864.20	747.30	16.50	2,321.50	69.00
Developed acres	2,852.10	499.50	205.30	6.70	2,071.60	69.00
Number of tenants 5/	1,145	191	20	1	918	15
Number of owners	755	100	250	9	303	93

1/ Data on number of tenants not available for 3 parks: 2 on Maui and 1 on Oahu.

2/ Data on number of owners not available for 2 parks: 1 on Maui and 1 on Oahu.

3/ Data on number of tenants not available for 5 parks: 4 on Maui and 1 on Oahu.

4/ Data on number of owners not available for 2 parks on Oahu.

5/ Data on number of tenants not available for 6 parks: 4 on Maui, 1 on Oahu and 1 on Kauai.

Source: *Pacific Business News*, Vol. 45, No. 46 (January 11, 2008), p. 24; Vol. 46, No. 46 (January 9, 2009), p. 18; Vol. 47, No. 46 (January 8, 2010), p. 15.

**Table 22.09-- PINEAPPLE COMPANIES AND CANNERIES, AND  
SUGAR COMPANIES AND MILLS, 1955 TO 2009,  
AND BY ISLAND, 2008 AND 2009**

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies	Canneries	Companies 1/	Mills
1955	10	8	28	26
1960	8	9	27	27
1965	6	6	25	27
1970	4	4	23	26
1975	3	3	16	17
1980	3	3	15	14
1985	3	2	14	12
1990	4	2	12	12
1995	3	1	8	10
2000	3	1	3	4
2001	3	1	2	2
2002	3	1	2	2
2003	3	1	2	2
2004	3	1	2	2
2005	3	1	2	2
2006	3	1	2	2
2007	2	-	2	2
2008	2	-	(NA)	(NA)
2009	2	-	(NA)	(NA)
ISLAND: 2008				
Hawaii	-	-	(NA)	(NA)
Maui	1	-	(NA)	(NA)
Oahu	1	-	(NA)	(NA)
Kauai	-	-	(NA)	(NA)
ISLAND: 2009				
Hawaii	-	-	(NA)	(NA)
Maui	1	-	(NA)	(NA)
Oahu	1	-	(NA)	(NA)
Kauai	-	-	(NA)	(NA)

1/ In operation; excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; *Hawaiian Sugar Manual (annual)* ;  
Dole Food Company, records; Hawaii Agriculture Research Center, records.

**Table 22.10-- SUGAR AND MOLASSES PRODUCTION: 1991 TO 2008**

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area 1/		96° raw value	Equivalent refined	
1991	155,609	67,716	5,852,668	724,100	676,744	202,214
1992	145,790	62,123	5,432,286	652,304	609,643	203,739
1993	121,322	64,705	5,506,072	677,405	633,103	211,658
1994	98,413	64,951	5,268,859	658,538	615,470	200,835
1995	81,957	48,507	3,952,347	492,346	460,147	163,305
1996	68,816	36,769	3,542,460	437,262	408,665	145,369
1997	67,820	32,033	2,923,594	356,917	333,575	131,173
1998	67,585	30,347	2,725,744	353,893	330,748	125,909
1999	60,758	35,329	2,891,499	367,532	343,495	141,481
2000	43,821	30,194	2,364,357	301,165	281,469	101,329
2001	50,410	19,293	1,876,613	246,203	230,101	85,894
2002	47,476	21,311	2,108,810	270,084	252,421	89,885
2003	47,733	19,851	2,029,761	261,009	243,939	89,631
2004	43,465	21,790	1,978,821	257,866	241,002	80,466
2005	40,145	21,735	1,754,581	252,342	235,839	72,675
2006	42,080	20,413	1,614,691	213,185	199,243	65,505
2007	(NA)	20,385	1,492,357	206,008	192,535	62,231
2008	(NA)	20,426	1,422,296	185,171	173,061	62,278

NA Not available.

1/ The average growth of a crop is 22 to 26 months. Only a portion of the total acreage in cane is harvested each year.

Source: Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual* (annual), and records; Hawaii Agriculture Research Center, records.

**Table 22.11-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION:  
1980 TO 2008**

[In millions of dollars]

Year	Pineapple		Sugar	
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses
1980	192.2	34.3	566.4	27.7
1981	172.0	45.6	314.2	13.7
1982	156.1	49.9	343.9	7.6
1983	171.6	47.4	396.5	13.7
1984	202.0	47.6	382.9	10.1
1985	171.7	50.8	331.9	8.9
1986	184.9	53.5	348.4	13.5
1987	202.9	48.5	325.0	10.9
1988	191.7	55.3	312.9	11.1
1989	182.7	59.2	313.6	8.4
1990	161.6	54.3	319.0	9.9
1991	172.7	51.9	261.0	9.7
1992	141.8	55.9	229.2	8.4
1993	86.6	54.0	242.9	9.0
1994	81.1	53.0	239.2	8.7
1995	72.5	62.5	190.5	9.7
1996	78.2	68.8	160.8	8.0
1997	73.0	63.7	127.5	5.0
1998	81.3	63.8	130.3	2.8
1999	72.3	72.5	129.5	1.8
2000	60.8	71.4	93.1	2.8
2001	67.7	68.9	86.4	4.2
2002	71.0	73.0	95.9	4.4
2003	64.4	78.5	95.9	3.1
2004	57.3	65.9	91.7	2.4
2005	49.8	63.6	87.9	4.6
2006	(NA)	60.5	74.8	4.9
2007	(NA)	(D)	70.9	5.4
2008	(NA)	(D)	66.1	5.3

NA Not available.

D Data not shown separately to avoid disclosure of individual operations.

1/ Value of canned fruit and juices and by-product shipped out-of-State and sold within State.

2/ Includes "fresh cut". Prior to 2005, value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual)

<[http://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Annual\\_Statistical\\_Bulletin/index.asp](http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp)>  
accessed July 15, 2010; and records.