### <u>Table</u> <u>Number</u> <u>Table Name</u>

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#### <u>Narrative</u>

22.01	Statistical Summary of Manufactures (NAICS 31-33): 2005 to 2010
22.02	Detailed Manufacturing Statistics (NAICS 31-33): 2002 and 2007
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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: 2012.

## Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES (NAICS 31-33): 2005 TO 2010

Subject	2005	2006	2007	2008	1/ 2009	2010
All employees						
Number (1,000)	14.0	14.0	14.1	12.8	11.6	10.7
Payroll	481.0	503.8	511.5	490.6	445.9	430.0
Production workers						
Number (1,000) 2/	9.0	9.0	9.5	8.3	7.3	6.8
Hours (millions)	18.7	18.1	17.5	16.3	13.9	13.1
Wages	282.5	299.5	294.4	268.7	239.6	238.9
Value added by manufacture	1,847.6	2,049.1	3,013.7	1,707.6	1,688.0	1,402.9
Cost of materials 3/	4,716.2	5,301.5	5,812.5	6,647.0	4,239.1	5,050.4
Value of shipments 3/	6,442.6	7,301.0	8,799.3	8,528.2	5,928.6	6,424.1
Total capital expenditures	146.4	173.5	86.7	135.7	85.6	75.7

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

1/ Revised from previous Data Book.

2/ For year 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.

3/ 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, 2005,* M05 (AS)-3 (November 2006), table 2; 2006 (December 2006) <a href="http://www.census.gov/mcd/asm-as3.html">http://www.census.gov/mcd/asm-as3.html</a> accessed March 5, 2008; 2008 (March 2010) <a href="http://www.census.gov/econ/census07/www/get\_data.html">http://www.census.gov/econ/census07/www/get\_data.html</a> accessed June 9, 2010; 2009 (December 2010), <a href="http://factfinder.census.gov/servlet/IBQTable?\_bm=y">http://factfinder.census.gov/servlet/IBQTable?\_bm=y</a> &-ds\_name=AM0931AS101&-geo\_id=04000US15&-search\_results=01000US&-\_lang=en> accessed April 12, 2011; 2010 (November 2011), <a href="http://factfinder2.census.gov/faces/tableservices/jsf/pages/">http://factfinder2.census.gov/faces/tableservices/jsf/pages/</a> productview.xhtml?pid=ASM\_2010\_31AS101&prodType=table> accessed March 29, 2012.

#### 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]

	Va	lue
Item	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) Quantity of electricity generated less sold for heat and power (1,000 kWh)	204,563 356,114	193,390 (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)

Continued on next page.

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

	Va	lue
Item	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 <a href="http://www.census.gov/prod/ec02/ec0231ahi.pdf">http://www.census.gov/prod/ec02/ec0231ahi.pdf</a>> accessed October 6, 2005; 2007 Economic Census, Manufacturing, Geographic Area Series, Detailed Statistic for the State: 2007 (April 2010) <a href="http://www.census.gov/econ/census07/www/get\_data.html">http://www.census.gov/prod/ec02/ec0231ahi.pdf</a>> 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]

Subject	State total	City and County of Honolulu	Hawaii County	Maui County
	Otato total	Honoraia		maar oounty
All establishments 1/	984	684	138	114
With 20 employees or more	171	138	17	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	2 012 721	2 604 779	126 200	160.016
(\$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
(\$1,000)	0,012,010	0,040,000	142,041	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 the12th 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) <a href="http://www.census.gov/econ/census07/www/get\_data.html">http://www.census.gov/econ/census07/www/get\_data.html</a> accessed June 9, 2010.

### Table 22.04-- MANUFACTURING, BY SELECTED INDUSTRY GROUP (NAICS 31-33): 2010

Subject	Total	Food NAICS 311	Food, bakeries & tortilla NAICS 3118	Printing & related support NAICS 323	Printing & related support NAICS 3231	Non- metallic mineral NAICS 327
All employees						
Number 1/	10,726	4,534	2,048	(NA)	(NA)	(NA)
Payroll (\$1,000)	430,039	140,840	48,268	(NA)	(NA)	(NA)
Production workers						
Number 1/	6,772	2,951	1,503	(NA)	(NA)	(NA)
Hours (1,000)	13,062	5,278	2,517	(NA)	(NA)	(NA)
Wages (\$1,000)	238,905	78,659	32,768	(NA)	(NA)	(NA)
Value added (\$1,000)	1,402,856	458,165	104,981	(NA)	(NA)	(NA)
Total cost of materials (\$1,000) 2/	5,050,442	483,140	80,269	(NA)	(NA)	(NA)
Total value of shipments (\$1,000) 2/	6,424,148	943,828	184,916	(NA)	(NA)	(NA)
Total capital expenditures (\$1,000)	75,699	22,584	4,321	(NA)	(NA)	(NA)

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

NA Not available.

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, Annual Survey of Manufactures: Geographic Area Statistics: *Statistics for All Manufacturing by State: 2010 and 2009* <a href="http://www.census.gov/manufacturing/asm/index.html">http://www.census.gov/manufacturing/asm/index.html</a> accessed June 26, 2012.

### Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES(NAICS 31-33), BY SELECTED NAICS CODE: 2010

[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]

			Annual	Total	
		Average	average	annual	Annual
NAICS		establish-	employ-	wages	wages per
code	Kind of business	ments	ment	(\$1,000)	employee
	Total	963	12,922	508,201	39,327
311	Food	294	5,618	161,332	28,716
3113	Sugar & confectionery product	22	752	27,588	36,673
3114	Fruit & vegetable preserving & specialty	20	410	10,145	24,720
3115	Dairy product	12	314	16,835	53,616
3116	Animal slaughtering & processing	16	431	14,119	32,734
3117	Seafood product prep. & packaging	4	53	1,093	20,696
3118	Bakeries & tortilla	128	2,026	47,624	23,508
3119	Other food	87	1,563	42,163	26,979
312	Beverage and tobacco product	33	863	39,524	45,816
3121	Beverage	33	863	39,524	45,816
313	Textile mills	3	47	1,141	24,072
3133	Textile and fabric finishing mills	3	47	1,141	24,072
314	Textile product mills	27	177	5,335	30,213
3141	Textile furnishings mills	8	107	3,655	34,134
3149	Other textile product mills	19	70	1,680	24,171
315	Apparel	57	444	9,649	21,748
3152	Cut and sew apparel	54	437	9,574	21,900
3159	Accessories and other apparel	3	7	75	11,559
321	Wood product	28	252	8,458	33,520
3212	Plywood & engineered wood product	8	136	4,336	31,806
322	Paper	5	76	3,064	40,099
3222	Converted paper product	5	76	3,064	40,099
323	Printing & related support activities	102	823	29,177	35,463
3231	Printing & related support activities	102	823	29,177	35,463
325	Chemical	31	342	14,332	41,895
3251	Basic chemical mfg.	7	126	6,525	51,926
3253	Agricultural chemical	4	58	2,292	39,739
3256	Soap, cleaning compound, and toiletry	13	75	1,980	26,483
326	Plastics & rubber products	21	240	10,052	41,911
327	Nonmetallic mineral product	60	772	43,531	56,382
3271	Clay product and refractory	5	23	492	21,328
3272	Glass & glass product	7	15	303	20,790

Continued on next page.

# Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES (NAICS 31-33), BY SELECTED NAICS CODE: 2010 -- Con.

NAICS code	Kind of business	Average establish- ments	Annual average employ- ment	Total annual wages (\$1,000)	Annual wages per employee
3273	Cement & concrete product	26	594	36,978	62,296
3273 3279	Other nonmetallic mineral products	20	141	5,758	40,884
332	Fabricated metal product	42	345	16,677	48,398
3323	Architectural and structural metals	26	247	11,591	46,976
3327	Machine shops and threaded product	6	35	1,388	39,377
3328	Coating, engraving, and heat treating	°,	00	1,000	00,011
0010	metals	3	15	658	44,830
333	Machinery	6	54	2,973	55,217
334	Computer & electronic product	11	149	8,790	58,865
335	Electrical equipment & appliance	3	24	1,252	52,519
336	Transportation equipment	30	830	50,308	60,588
3363	Motor vehicle parts	5	15	620	41,116
3366	Ship & boat building	22	799	48,839	61,144
337	Furniture & related product	64	400	16,534	41,386
3371	Household and institutional furniture	55	313	12,675	40,528
339	Miscellaneous	140	954	33,952	35,586
3391	Medical equipment & supplies	41	276	12,006	43,475
3399	Other miscellaneous	99	678	21,946	32,372

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages* 2010, table 10 <http://www.bls.gov/cew/ew10table10.pdf> accessed June 25, 2012.

### Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING: 1987 TO 2011

[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 1988 1989 1990 1991 1992 1993 1994 1995	595,140 629,303 630,997 728,387 714,407 714,470 717,423 618,238 614,771	1996 1997 1998 1999 2000 2001 2002 2003 2004	622,889 581,259 535,371 585,305 586,039 611,292 612,658 638,863 642,245	2005 2006 2007 2008 2009 2010 2011	738,573 781,626 766,208 795,352 752,237 708,787 695,442

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual) and as revised. Beginning in 1997, <a href="http://www.state.hi.us/tax/a5\_3txcolrptarchive.htm">http://www.state.hi.us/tax/a5\_3txcolrptarchive.htm</a>> accessed June 29, 2012.

State total	Hawaii	Maui	Molokai	Oahu	Kauai
25	4	5	1	13	2
4,866.80	1,867.00	776.30	16.50	2,138.00	69.00
3,067.12	717.00	232.30	6.70	2,042.12	69.00
1,101	184	20	1	836	60
629	86	248	9	193	93
25	4	5	1	13	2
5,018.50	1,864.20	747.30	16.50	2,321.50	69.00
2,852.10	499.50	205.30	6.70	2,071.60	69.00
1,145	191	20	1	918	15
755	100	250	9	303	93
25	4	5	1	13	2
4,983.52	1,864.22	777.30	16.50	2,256.50	69.00
2,932.10	569.50	205.30	6.70	2,081.60	69.00
1,125	207	20	(NA)	883	15
537	111	194	9	213	10
	25 4,866.80 3,067.12 1,101 629 25 5,018.50 2,852.10 1,145 755 2,852.10 1,145 755 2,932.10 1,125	25 4   4,866.80 1,867.00   3,067.12 717.00   1,101 184   629 86   25 4   5,018.50 1,864.20   2,852.10 499.50   1,145 191   755 100   25 4   4,983.52 1,864.22   2,932.10 569.50   1,125 207	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

#### Table 22.07-- INDUSTRIAL AND HIGH-TECHNOLOGY PARKS, BY ISLAND: 2008 TO 2010

NA Not Available.

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

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

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

4/ Data on number of tenants not available for 8 parks: 4 on Maui, 1 on Molokai, 2 on Oahu and 1 on Kauai.

5/ Data on number of owners not available for 3 parks: 1 on Maui, 1 on Oahu and 1 on Kauai.

Source: Pacific Business News, Vol. 46, No. 46 (January 9, 2009), p. 18; Vol. 47, No. 46

(January 8, 2010), p. 15; and Vol. 48, No. 47 (January 14, 2011), p. 16.

#### Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES, AND SUGAR COMPANIES AND MILLS, 1955 TO 2011, AND BY ISLAND, 2010 AND 2011

	Pineapple (end of canning season)			gar ıber 31)
Year	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
2005	3	1	2	2
2006	3	1	2	2
2007	2	-	2	2
2008	2	-	2	2
2009	2	-	1	1
2010	2/2	-	1	1
2011	2/2	-	1	1
ISLAND: 2010				
Hawaii	-	-	-	-
Maui	2/1	-	1	1
Oahu	2/1	-	-	-
Kauai	-	-	-	-
ISLAND: 2011				
Hawaii	-	-	-	-
Maui	2/1	-	1	1
Oahu	2/1	-	-	-
Kauai	-	-	-	-

1/ In operation; excludes cooperatives.

2/ Includes Dole Food Company Hawaii & Haliimaile Pineapple Company, might exclude smaller diversified farms.

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

	Cane land (acres)			Sugar produced (short tons)		
Year	Total area	Harvested area 1/	Cane used for sugar (short tons)	96° raw value	Equivalent refined	Molasses produced (short tons)
1991	$\begin{array}{c} 155,609\\ 145,790\\ 121,322\\ 98,413\\ 81,957\\ 68,816\\ 67,820\\ 67,585\\ 60,758\\ 43,821\\ 50,410\\ 47,476\\ 47,733\\ 43,465\\ 40,145\\ 42,080\\ 41,762\end{array}$	67,716	5,852,668	724,100	676,744	202,214
1992		62,123	5,432,286	652,304	609,643	203,739
1993		64,705	5,506,072	677,405	633,103	211,658
1994		64,951	5,268,859	658,538	615,470	200,835
1995		48,507	3,952,347	492,346	460,147	163,305
1996		36,769	3,542,460	437,262	408,665	145,369
1997		32,033	2,923,594	356,917	333,575	131,173
1998		30,347	2,725,744	353,893	330,748	125,909
1999		35,329	2,891,499	367,532	343,495	141,481
2000		30,194	2,364,357	301,165	281,469	101,329
2001		19,293	1,876,613	246,203	230,101	85,894
2002		21,311	2,108,810	270,084	252,421	89,885
2003		19,851	2,029,761	261,009	243,939	89,631
2004		21,790	1,978,821	257,866	241,002	80,466
2005		21,735	1,754,581	252,342	235,839	72,675
2006		20,413	1,614,691	213,185	199,243	65,505
2007		20,385	1,492,357	206,008	192,535	62,231
2008	39,663	20,426	1,422,296	185,171	173,061	62,278
2009	39,812	20,244	2/ 973,876	176,208	164,684	2/ 40,631
2010	34,693	15,488	1,195,345	171,949	160,704	50,161
2011	35,532	15,063	1,286,373	182,582	169,801	51,106

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.

2/ Gay & Robinson data not available.

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

## Table 22.10-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION:1990 TO 2010

	Pinea	apple	Sugar		
Year	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses	
1000	101.0	54.0	040.0	0.0	
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	
2009	(D)	(D)	65.8	7.8	
2010	(D)	(D)	104.2	5.4	

[In millions of dollars]

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: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual) <a href="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</a> accessed March 29, 2012; and records.