TableNumberTable Name

(Click on the table number to go to corresponding table)

<u>Narrative</u>

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: 2011.

Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES (NAICS 31-33): 2004 TO 2009

Subject	2004	2005	2006	2007	1/ 2008	2009
All employees						
Number (1,000)	14.0	14.0	14.0	14.1	12.8	11.7
Payroll	518.5	481.0	503.8	511.5	490.6	455.3
Production workers						
Number (1,000) 2/	8.8	9.0	9.0	9.5	8.3	7.3
Hours (millions)	18.6	18.7	18.1	17.5	16.3	13.9
Wages	319.2	282.5	299.5	294.4	268.7	241.6
Value added by manufacture	1,477.8	1,847.6	2,049.1	3,013.7	1,707.6	1,702.8
Cost of materials 3/	3,092.7	4,716.2	5,301.5	5,812.5	6,647.0	4,251.5
Value of shipments 3/	4,519.0	6,442.6	7,301.0	8,799.3	8,528.2	5,955.6
Total capital expenditures	98.3	146.4	173.5	86.7	135.7	86.4

[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 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.

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, 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> accessed June 9, 2010; *2009* (December 2010), <http://factfinder.census.gov/servlet/IBQTable?_bm=y&-ds_name=AM0931AS101&-geo_id=04000US15 &-search_results=01000US&-_lang=en> accessed April 12, 2011.

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]

All employees 3/ Total compensation (\$1,000) Annual payroll Total fringe benefits13,20 512,86 421,26 91,53Production workers, average for year On March 12 On May 12 On August 12 On November 128,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 9,700 August 12 On November 128,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 8,86 9,700 August 12 Production-worker hours (1,000) Production-worker wages (\$1,000) Materials, parts, containers, packaging, etc., used Resales Purchased fuels Purchased fuels Purchased fuels Purchased fuels Purchased for heat and power (1,000 kWh) Quantity of electricity generated204,56 204,56	Value
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Quantity of electricity purchased for heat and power (1,000 kWh)204,56Quantity of electricity generated	9 32,373
Quantity of electricity generated	4 38,990
	3 193,390
less sold for heat and power (1,000 kWh) 356,17	4 (D)
Total value of shipments (\$1,000) 3,460,15	9 8,799,266
Value of resales 280,65	
Value added (\$1,000) 1,217,72	8 3,013,731
Total inventories, beginning of year (\$1,000) 366,17	2 761,942
Finished goods	
Work-in-process 74,34	
Materials and supplies 96,78	· · ·

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 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> 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	Honoraid		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	0.407			a a <i>t</i>
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	0.040.704	0.004.770	400.000	100.010
(\$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)	5,012,515	3,343,030	142,041	101,402
Value of shipments 3/				
(\$1,000)	8,799,266	8,201,881	290,120	262,749
(+ - , 0 0 0)	0,100,200	0,201,001		,
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) 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): 2009

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/	11,687	4,652	2,025	1,001	1,001	1,050
Payroll (\$1,000)	455,286	141,768	48,411	36,999	36,999	48,115
-						
Production workers						
Number 1/	7,299	2,943	1,397	684	684	753
Hours (1,000)	13,905	5,236	2,304	1,224	1,224	1,256
Wages (\$1,000)	241,617	75,799	30,957	20,900	20,900	30,810
Value added (\$1,000)	1,702,765	442,905	113,017	74,332	74,332	124,024
Total cost of materials (\$1,000) 2/	4,251,459	464,496	70,630	(D)	(D)	129,965
Total value of shipments (\$1,000) 2/	5,955,627	903,557	183,737	(D)	(D)	255,576
Total capital expenditures (\$1,000)	86,446	20,528	3,717	2,806	2,806	12,057

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

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, 2009 Geographic Area Statistics, "2009 Annual Survey of Manufactures" http://www.census.gov/manufacturing/asm/index.html accessed April 26, 2011.

Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES(NAICS 31-33), BY SELECTED NAICS CODE: 2009

[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]

code Kind of business ments ment (\$1,000) e Total 1,015 13,678 531,743 1 311 Food 301 5,823 162,859 1 3112 Grain and oilseed milling 4 52 1,730 1 3113 Sugar & confectionery product 23 805 28,531 1	Annual wages per employee 38,877 27,970 33,155
NAICS codeKind of businessestablish- mentsemploy- mentwages (\$1,000)wages mentTotal1,01513,678531,743311Food Grain and oilseed milling 31133015,823162,8593113Sugar & confectionery product2380528,531	wages per employee 38,877 27,970
code Kind of business ments ment (\$1,000) e Total 1,015 13,678 531,743 1 311 Food 301 5,823 162,859 1 3112 Grain and oilseed milling 4 52 1,730 1 3113 Sugar & confectionery product 23 805 28,531 1	<u>employee</u> 38,877 27,970
Total 1,015 13,678 531,743 311 Food 301 5,823 162,859 3112 Grain and oilseed milling 4 52 1,730 3113 Sugar & confectionery product 23 805 28,531	38,877 27,970
311 Food 301 5,823 162,859 3112 Grain and oilseed milling 4 52 1,730 3113 Sugar & confectionery product 23 805 28,531	27,970
311 Food 301 5,823 162,859 3112 Grain and oilseed milling 4 52 1,730 3113 Sugar & confectionery product 23 805 28,531	27,970
3112Grain and oilseed milling4521,7303113Sugar & confectionery product2380528,531	
3112Grain and oilseed milling4521,7303113Sugar & confectionery product2380528,531	
3113 Sugar & confectionery product 23 805 28,531	
5 51	35,428
3114 Fruit & vegetable preserving & specialty 22 468 13,319	28,445
3115 Dairy product 12 329 16,390	49,753
3116 Animal slaughtering & processing 17 448 12,935	28,852
3118 Bakeries & tortilla 130 2,026 47,224	23,309
3119 Other food 89 1,619 41,549	25,657
312 Beverage and tobacco product 33 881 39,338	44,655
3121 Beverage 33 881 39,338	44,655
314 Textile product mills 28 205 6,168	30,053
3141Textile furnishings mills81174,119	35,208
3149 Other textile product mills 20 88 2,049	23,219
315 Apparel 62 468 10,358	22,132
321 Wood product 32 (1/) (1/)	(1/)
3212 Plywood & engineered wood product 8 155 5,951	38,371
322 Paper 6 88 3,511	39,896
323 Printing & related support activities 116 899 3,112	34,609
324 Petroleum and coal products 6 510 53,887	105,678
325 Chemical 35 353 15,107	42,795
3251 Basic chemical mfg. 6 129 6,810	52,894
3253 Agricultural chemical 5 56 2,257	40,061
3254 Pharmaceutical and medicine 5 82 3,497	42,604
3256 Soap, cleaning compound, and toiletry 15 70 1,803	25,876
326 Plastics & rubber products 17 231 9,711	41,963
327 Nonmetallic mineral product 66 853 48,314	56,663
3271 Clay product and refractory 7 27 546	20,364
3272 Glass & glass product 8 23 454	19,444
3273 Cement & concrete product 29 639 40,623	63,614
3279 Other nonmetallic mineral products 23 164 6,691	40,822
332 Fabricated metal product 45 (1/) (1/)	(1/)
3323 Architectural and structural metals 30 285 12,965	45,517
	·

Continued on next page.

Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES (NAICS 31-33), BY SELECTED NAICS CODE: 2009 -- Con.

NAICS code	Kind of business	Average establish- ments	Annual average employ- ment	Total annual wages (\$1,000)	Annual wages per employee
3327	Machine shops and treaded product	6	43	1,772	41,697
333	Machinery	6	49	2,227	45,605
334	Computer & electronic product	13	171	10,317	60,304
3345	Electronic instrument	11	157	9,678	61,548
336	Transportation equipment	30	931	54,744	58,780
3366	Ship & boat building	21	894	53,095	59,396
337	Furniture & related product	68	455	19,398	42,665
3371	Household and institutional furniture	58	360	15,249	42,408
339	Miscellaneous	145	972	32,768	33,700
3391	Medical equipment & supplies	42	282	11,371	40,309
3399	Other miscellaneous	103	690	21,397	31,000

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* 2009, table 10 http://www.bls.gov/cew/ew09table10.pdf> accessed April 12, 2011.

Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:1987 TO 2010

[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	2010	708,787

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 accessed June 6, 2011.

Subject	State total	Hawaii	Maui	Molokai	Oahu	Kauai
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 1/	1,101	184	20	1	836	60
Number of owners 2/	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 3/	1,145	191	20	1	918	15
Number of owners	755	100	250	9	303	93
2010						
Number of parks	25	4	5	1	13	2
Total acres	4,983.52	1,864.22	777.30	16.50	2,256.50	69.00
Developed acres	2,932.10	569.50	205.30	6.70	2,081.60	69.00
Number of tenants 4/	1,125	207	20	(NA)	883	15
Number of owners 5/	537	111	194	9	213	10

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; Vol. 48, No. 47 (January 14, 2011), p. 16.

Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES, AND SUGAR COMPANIES AND MILLS, 1955 TO 2010, AND BY ISLAND, 2009 AND 2010

	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
ISLAND: 2009				
Hawaii	-	-	-	-
Maui	1	-	1	1
Oahu	1	-	-	-
Kauai	-	-	-	-
ISLAND: 2010				
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.

	Cane lan	d (acres)			roduced tons)	
Year	Total area	Harvested area 1/	Cane used for sugar (short tons)	96 [°] raw value	Equivalent refined	Molasses produced (short tons)
1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	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	67,716 62,123 64,705 64,951 48,507 36,769 32,033 30,347 35,329 30,194 19,293 21,311 19,851 21,790 21,735 20,413	5,852,668 5,432,286 5,506,072 5,268,859 3,952,347 3,542,460 2,923,594 2,725,744 2,891,499 2,364,357 1,876,613 2,108,810 2,029,761 1,978,821 1,754,581 1,614,691	724,100 652,304 677,405 658,538 492,346 437,262 356,917 353,893 367,532 301,165 246,203 270,084 261,009 257,866 252,342 213,185	676,744 609,643 633,103 615,470 460,147 408,665 333,575 330,748 343,495 281,469 230,101 252,421 243,939 241,002 235,839 199,243 409,555	202,214 203,739 211,658 200,835 163,305 145,369 131,173 125,909 141,481 101,329 85,894 89,885 89,631 80,466 72,675 65,505
2007 2008 2009 2010	41,762 39,663 39,812 34,693	20,385 20,426 20,244 15,488	1,492,357 1,422,296 2/ 973,876 1,195,345	206,008 185,171 176,208 171,949	192,535 173,061 164,684 160,704	62,231 62,278 2/ 40,631 50,161

Table 22.09-- SUGAR AND MOLASSES PRODUCTION: 1991 TO 2010

 $1/\,$ 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.

Table 22.10-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION:1980 TO 2009

	Pineapple		Sugar	
Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses	
100.0	04.0	500.4	07.7	
			27.7	
			13.7	
			7.6	
			13.7	
			10.1	
			8.9	
			13.5	
			10.9	
			11.1	
182.7	59.2	313.6	8.4	
161.6	54.3	319.0	9.9	
172.7	51.9	261.0	9.7	
141.8	55.9	229.2	8.4	
86.6	54.0	242.9	9.0	
81.1	53.0	239.2	8.7	
72.5	62.5	190.5	9.7	
78.2	68.8	160.8	8.0	
73.0	63.7	127.5	5.0	
81.3	63.8	130.3	2.8	
72.3	72.5	129.5	1.8	
60.8	71.4	93.1	2.8	
			4.2	
			4.4	
			3.1	
			2.4	
			4.6	
			4.9	
			5.4	
	. ,		5.3	
(NA)	(D)	65.8	7.8	
	192.2 172.0 156.1 171.6 202.0 171.7 184.9 202.9 191.7 182.7 161.6 172.7 141.8 86.6 81.1 72.5 78.2 73.0 81.3 72.3 60.8 67.7 71.0 64.4 57.3 49.8 (NA) (NA) (NA)	192.2 34.3 172.0 45.6 156.1 49.9 171.6 47.4 202.0 47.6 171.7 50.8 184.9 53.5 202.9 48.5 191.7 55.3 182.7 59.2 161.6 54.3 172.7 51.9 141.8 55.9 86.6 54.0 81.1 53.0 72.5 62.5 78.2 68.8 73.0 63.7 81.3 63.8 72.3 72.5 60.8 71.4 67.7 68.9 71.0 73.0 64.4 78.5 57.3 65.9 49.8 63.6 (NA) (D) (NA) (D)	192.2 34.3 566.4 172.0 45.6 314.2 156.1 49.9 343.9 171.6 47.4 396.5 202.0 47.6 382.9 171.7 50.8 331.9 184.9 53.5 348.4 202.9 48.5 325.0 191.7 55.3 312.9 182.7 59.2 313.6 161.6 54.3 319.0 172.7 51.9 261.0 141.8 55.9 229.2 86.6 54.0 242.9 81.1 53.0 239.2 72.5 62.5 190.5 78.2 68.8 160.8 73.0 63.7 127.5 81.3 63.8 130.3 72.3 72.5 129.5 60.8 71.4 93.1 67.7 68.9 86.4 71.0 73.0 95.9 64.4 78.5	

[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: Hawaii Agricultural Statistics Service, Statistics of Hawaii Agriculture (annual)

http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp accessed July 8, 2011; and records.