### **Table**

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### **Narrative**

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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. 2002 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: 2008.* 

## Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES (NAICS 31- 33): 2001 TO 2006

[In millions of dollars unless otherwise noted. Industry groups with 950 employees or more; for 2002 data, with 100 employees or more. Statistics based on the North American Industry Classification System (NAICS)]

Subject	2001	2002	2003	2004	2005	2006
All employees						
Number (1,000)	14.4	13.2	13.6	14.0	1/ 14.0	14.0
Payroll	447.4	421.3	434.4	518.5	481.0	503.8
Production workers						
Number (1,000) 2/	9.1	8.9	9.0	8.8	1/ 9.0	9.0
Hours (millions)	16.7	16.8	17.6	18.6	1/ 18.7	18.1
Wages	224.7	254.7	269.1	319.2	282.5	299.5
Value added by manufacture	907.3	1,217.7	1,224.5	1,477.8	1/ 1,847.6	2,049.1
Cost of materials 3/	2,268.6	2,246.5	2,641.9	3,092.7	4,716.2	5,301.5
Value of shipments 3/	3,196.4	3,460.2	3,879.7	4,519.0	1/ 6,442.6	7,301.0
Total capital expenditures	157.2	83.0	91.3	98.3	146.4	173.5

<sup>1/</sup> Revised from previous *Data Book*.

Source: U.S. Census Bureau, *Annual Survey of Manufactures, Geographic Area Statistics, 2001*, M01(AS)-3 (January 2003), table 2; *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) <a href="http://www.census.gov/mcd/asm-as3.html">http://www.census.gov/mcd/asm-as3.html</a> accessed March 5, 2008; U.S. Census Bureau, *2002 Economic Census, Manufacturing, Geographic Area Series, Hawaii*, EC02-31A-HI (RV) (September 2005), table 1 <a href="http://www.census.gov/prod/ec02/ec0231ahi.pdf">http://www.census.gov/prod/ec02/ec0231ahi.pdf</a> accessed October 6, 2005.

<sup>2/</sup> For years 2001 to 2004, 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 2005 and 2006, 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.

<sup>3/</sup> 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.

# Table 22.02-- DETAILED MANUFACTURING STATISTICS (NAICS 31 - 33): 1997 AND 2002

[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         1997         2002           Companies 1/         895         (NA)           All establishments 2/         921         929           1 to 19 employees         762         772           20 to 99 employees or more         29         22           All employees 3/         15,109         13,200           Total compensation (\$1,000)         503,407         512,860           Annual payroll         405,045         421,269           Total fringe benefits         98,362         91,591           Production workers, average for year         9,899         8,865           On March 12         9,835         8,858           On May 12         9,768         8,830           On November 12         9,799         8,859           Production-worker hours (1,000)         18,362         16,837           Production-worker wages (\$1,000)         18,362         16,837           Production-worker wages (\$1,000)         19,41,147         2,246,539           Materials, parts, containers, packaging, etc., used         1,673,002         1,904,259           Resales         152,624         246,016           Purchased fuels         51,118         41,001           Purchased electricity		Va	lue
All establishments 2/ 1 to 19 employees 762 772 20 to 99 employees 130 135 100 employees or more 29 22  All employees 3/ Total compensation (\$1,000) Annual payroll Total fringe benefits 98,362 Production workers, average for year On March 12 On November 12 Production-worker hours (1,000) Production-worker hours (1,000) Production-worker wages (\$1,000) Production-worker wages (\$1,000) Production-worker wages (\$1,000) Anterials, parts, containers, packaging, etc., used Purchased fuels Purchased electricity Contract work Quantity of electricity generated less sold for heat and power (1,000 kWh)  Total value of shipments (\$1,000) A13,192,532 A260,199	ltem	1997	2002
1 to 19 employees       762       772         20 to 99 employees       130       135         100 employees or more       29       22         All employees 3/       15,109       13,200         Total compensation (\$1,000)       503,407       512,860         Annual payroll       405,045       421,269         Total fringe benefits       98,362       91,591         Production workers, average for year       9,899       8,865         On March 12       9,835       8,858         On May 12       9,768       8,830         On November 12       9,799       8,859         Production-worker hours (1,000)       18,362       16,837         Production-worker wages (\$1,000)       18,362       16,837         Production-worker wages (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity generated       1,000 kWh)       (4/)       356,114	Companies 1/	895	(NA)
20 to 99 employees       130       135         100 employees or more       29       22         All employees 3/       15,109       13,200         Total compensation (\$1,000)       503,407       512,860         Annual payroll       405,045       421,269         Total fringe benefits       98,362       91,591         Production workers, average for year       9,899       8,865         On March 12       9,835       8,858         On May 12       9,768       8,830         On November 12       9,799       8,859         Production-worker hours (1,000)       18,362       16,837         Production-worker wages (\$1,000)       231,595       254,713         Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity generated       424,26,275       204,563	All establishments 2/	921	929
All employees or more   29   22	1 to 19 employees	762	772
All employees 3/ Total compensation (\$1,000) Annual payroll Total fringe benefits  Production workers, average for year On March 12 On August 12 On November 12  Production-worker hours (1,000) Production-worker wages (\$1,000)  Total cost of materials (\$1,000) Materials, parts, containers, packaging, etc., used Purchased fuels Purchased electricity Contract work  Quantity of electricity generated less sold for heat and power (1,000 kWh)  Total value of shipments (\$1,000)  Total value of shipments (\$1,000) Alexandra Sold Sold Sold Sold Sold Sold Sold Sold	20 to 99 employees	130	135
Total compensation (\$1,000)         503,407         512,860           Annual payroll         405,045         421,269           Total fringe benefits         98,362         91,591           Production workers, average for year         9,899         8,865           On March 12         9,835         8,858           On May 12         9,768         8,830           On November 12         10,194         8,880           Production-worker hours (1,000)         18,362         16,837           Production-worker wages (\$1,000)         231,595         254,713           Total cost of materials (\$1,000)         1,941,147         2,246,539           Materials, parts, containers, packaging, etc., used         1,673,002         1,904,259           Resales         152,624         246,016           Purchased fuels         51,118         41,001           Purchased electricity         23,281         21,969           Contract work         41,122         33,294           Quantity of electricity generated         (4/)         356,114           Total value of shipments (\$1,000)         3,192,532         3,460,199	100 employees or more	29	22
Annual payroll Total fringe benefits  Production workers, average for year  On March 12 On May 12 On August 12 On November 12  Production-worker hours (1,000) Production-worker wages (\$1,000)  Total cost of materials (\$1,000)  Materials, parts, containers, packaging, etc., used Purchased fuels Purchased electricity Contract work  Quantity of electricity generated less sold for heat and power (1,000 kWh)  Total value of shipments (\$1,000)  A8,880  9,768 8,830 10,194 8,880 10,194 8,880 10,194 8,880 10,194 8,880 10,194 1,943 1,941 1,94 1,945 1,946 1	All employees 3/	15,109	13,200
Total fringe benefits         98,362         91,591           Production workers, average for year         9,899         8,865           On March 12         9,835         8,858           On May 12         9,768         8,830           On August 12         10,194         8,880           On November 12         9,799         8,859           Production-worker hours (1,000)         18,362         16,837           Production-worker wages (\$1,000)         231,595         254,713           Total cost of materials (\$1,000)         1,941,147         2,246,539           Materials, parts, containers, packaging, etc., used         1,673,002         1,904,259           Resales         152,624         246,016           Purchased fuels         51,118         41,001           Purchased electricity         23,281         21,969           Contract work         23,281         21,969           Quantity of electricity purchased for heat and power (1,000 kWh)         245,275         204,563           Quantity of electricity generated less sold for heat and power (1,000 kWh)         (4/)         356,114           Total value of shipments (\$1,000)         3,192,532         3,460,199	Total compensation (\$1,000)	503,407	512,860
Production workers, average for year       9,899       8,865         On March 12       9,835       8,858         On May 12       9,768       8,830         On August 12       10,194       8,880         On November 12       9,799       8,859         Production-worker hours (1,000)       18,362       16,837         Production-worker wages (\$1,000)       231,595       254,713         Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity generated       (4/)       356,114         less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	Annual payroll	405,045	421,269
On March 12       9,835       8,858         On May 12       9,768       8,830         On August 12       10,194       8,880         On November 12       9,799       8,859         Production-worker hours (1,000)       18,362       16,837         Production-worker wages (\$1,000)       231,595       254,713         Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	Total fringe benefits	98,362	91,591
On May 12       9,768       8,830         On August 12       10,194       8,880         On November 12       9,799       8,859         Production-worker hours (1,000)       18,362       16,837         Production-worker wages (\$1,000)       231,595       254,713         Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	Production workers, average for year	9,899	8,865
On August 12 On November 12       10,194 9,799       8,880 8,859         Production-worker hours (1,000) Production-worker wages (\$1,000)       18,362 231,595       16,837 254,713         Total cost of materials (\$1,000) Materials, parts, containers, packaging, etc., used Resales Purchased fuels Purchased electricity Contract work       1,941,147 2,246,539 1,673,002 1,904,259 246,016 51,118 41,001 23,281 21,969 41,122 33,294         Quantity of electricity purchased for heat and power (1,000 kWh) Quantity of electricity generated less sold for heat and power (1,000 kWh)       245,275 445,275       204,563 204,563 204,563         Total value of shipments (\$1,000)       3,192,532       3,460,199	On March 12	9,835	8,858
On November 12       9,799       8,859         Production-worker hours (1,000)       18,362       16,837         Production-worker wages (\$1,000)       231,595       254,713         Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	On May 12	9,768	8,830
Production-worker hours (1,000)       18,362       16,837         Production-worker wages (\$1,000)       231,595       254,713         Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	On August 12	10,194	8,880
Production-worker wages (\$1,000)       231,595       254,713         Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	On November 12	9,799	8,859
Total cost of materials (\$1,000)       1,941,147       2,246,539         Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	Production-worker hours (1,000)	18,362	16,837
Materials, parts, containers, packaging, etc., used       1,673,002       1,904,259         Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	Production-worker wages (\$1,000)	231,595	254,713
Resales       152,624       246,016         Purchased fuels       51,118       41,001         Purchased electricity       23,281       21,969         Contract work       41,122       33,294         Quantity of electricity purchased for heat and power (1,000 kWh)       245,275       204,563         Quantity of electricity generated less sold for heat and power (1,000 kWh)       (4/)       356,114         Total value of shipments (\$1,000)       3,192,532       3,460,199	Total cost of materials (\$1,000)	1,941,147	2,246,539
Purchased fuels Purchased electricity Contract work  Quantity of electricity purchased for heat and power (1,000 kWh) Quantity of electricity generated less sold for heat and power (1,000 kWh)  Total value of shipments (\$1,000)  \$51,118	Materials, parts, containers, packaging, etc., used	1,673,002	1,904,259
Purchased electricity Contract work  Quantity of electricity purchased for heat and power (1,000 kWh) Quantity of electricity generated less sold for heat and power (1,000 kWh)  Total value of shipments (\$1,000)  23,281 41,122 33,294  245,275 204,563  (4/) 356,114		152,624	246,016
Contract work 41,122 33,294  Quantity of electricity purchased for heat and power (1,000 kWh) 245,275 204,563  Quantity of electricity generated less sold for heat and power (1,000 kWh) (4/) 356,114  Total value of shipments (\$1,000) 3,192,532 3,460,199		· · · · · · · · · · · · · · · · · · ·	
Quantity of electricity purchased for heat and power (1,000 kWh)  Quantity of electricity generated less sold for heat and power (1,000 kWh)  Total value of shipments (\$1,000)  245,275  204,563  (4/)  356,114	•	· · · · · · · · · · · · · · · · · · ·	
Quantity of electricity generated less sold for heat and power (1,000 kWh)  Total value of shipments (\$1,000)  (4/)  356,114  356,114	Contract work	41,122	33,294
less sold for heat and power (1,000 kWh) (4/) 356,114  Total value of shipments (\$1,000) 3,192,532 3,460,199		245,275	204,563
· · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	(4/)	356,114
	Total value of shipments (\$1,000)	3,192,532	3,460,199
Value of resales 181,478 280,656	Value of resales	181,478	280,656
Value added (\$1,000) 1,262,448 1,217,728	Value added (\$1,000)	1,262,448	1,217,728
Total inventories, beginning of year (\$1,000) 336,547 366,172	Total inventories, beginning of year (\$1,000)	336,547	366,172
Finished goods 175,028 195,042		175,028	
Work-in-process 46,214 74,346	·	46,214	74,346
Materials and supplies 115,305 96,784	Materials and supplies	115,305	96,784

Continued on next page.

# Table 22.02-- DETAILED MANUFACTURING STATISTICS (NAICS 31 - 33): 1997 AND 2002 -- Con.

	Va	lue
Item	1997	2002
Total inventories, end of year (\$1,000)	351,344	370,990
Finished goods	188,052	237,652
Work-in-process	47,984	31,358
Materials and supplies	115,308	101,980
Gross value of depreciable assets (acquisition costs)		
at beginning of year (\$1,000)	1,221,564	1,386,417
Total capital expenditures (new and used)	100,707	82,960
Buildings and other structures	38,742	13,569
Machinery and equipment	61,965	69,391
Automobiles, trucks, etc., for highway use	(NA)	5,399
Computers and peripheral data processing equipment	(NA)	4,080
All other expenditures for machinery and equipment	(NA)	59,912
Total retirements	24,447	33,527
Gross value of depreciable assets at end of year (\$1,000)	1,297,824	1,435,850
Depreciation charges during year (\$1,000)	68,301	76,908
Total rental payments (\$1,000)	38,447	51,216
Buildings and other structures	23,072	36,161
Machinery and equipment	15,375	15,055

#### NA Not available.

- 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,
- 4/ Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

August, and November plus other employees for payroll period that includes the 12th of March.

Source: U.S. Census Bureau, 1997 Economic Census, Manufacturing, Geographic Area Series, Hawaii, EC97M31A-HI (May 2000), table 5; 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.

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

## Table 22.03-- STATISTICAL SUMMARY OF MANUFACTURING (NAICS 31 - 33), BY COUNTY: 2002

[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]

State total	City and County of Honolulu	Hawaii County	Kauai County 1/	Maui County
929	683	114	39	93
157	132	14	3	8
13,200	10,253	1,246	210	1,491
421,269	326,845	38,289	5,903	50,232
8 865	6 855	740	120	1,141
,	,	_	_	2,204
254,713	195,266	20,463	3,344	35,640
4 047 700	040.540	07.740	44.400	457,000
1,217,728	948,546	97,719	14,403	157,060
2,246,539	2,017,417	102,186	13,047	113,889
3 460 199	2 959 134	204 377	26 132	270,556
0,400,100	2,000,104	204,011	20,102	270,000
82,960	59,572	6,371	443	16,574
	929 157 13,200 421,269 8,865 16,837 254,713 1,217,728 2,246,539 3,460,199	State total         County of Honolulu           929         683           157         132           13,200         10,253           421,269         326,845           8,865         6,855           16,837         12,920           254,713         195,266           1,217,728         948,546           2,246,539         2,017,417           3,460,199         2,959,134	State total         County of Honolulu County           929         683         114           157         132         14           13,200         10,253         1,246           421,269         326,845         38,289           8,865         6,855         740           16,837         12,920         1,466           254,713         195,266         20,463           1,217,728         948,546         97,719           2,246,539         2,017,417         102,186           3,460,199         2,959,134         204,377	State total         County of Honolulu         Hawaii County         Kauai County 1/           929 157         683 114 39 14 3           13,200 421,269         10,253 326,845 38,289 326,845 38,289 5,903           8,865 16,855 740 129 16,837 12,920 1,466 247 254,713 195,266 20,463 3,344           1,217,728 948,546 97,719 14,403           2,246,539 2,017,417 102,186 13,047           3,460,199 2,959,134 204,377 26,132

<sup>1/</sup> Kauai data calculated as residual by the Hawaii State Department of Business, Economic Development & Tourism.

Source: U.S. Census Bureau, 2002 *Economic Census, Manufacturing, Geographic Area Series, Hawaii*, EC02-31A-HI (RV) (September 2005), tables 1 and 3 <a href="http://www.census.gov/prod/ec02/ec0231ahi.pdf">http://www.census.gov/prod/ec02/ec0231ahi.pdf</a> accessed October 6, 2005. Calculations by the Hawaii State Department of Business, Economic Development & Tourism.

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

<sup>3/</sup> 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.

<sup>4/</sup> Aggregate of cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

### Table 22.04-- MANUFACTURING, BY SELECTED INDUSTRY GROUP (NAICS 31 - 33): 2006

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

Subject	Total	Food NAICS 311	Food, bakeries & tortilla NAICS 3118	Other food NAICS 3119	Printing & related support NAICS 323	Non- metallic mineral NAICS 327	Miscel- laneous NAICS 339	Other miscel- laneous NAICS 3399
All employees	40.000	4047	4.500	4 400	4.500	4.0==	4.000	
Number 1/ Payroll (\$1,000)	13,933 503,761	4,947 158,474	1,590 39,938	1,486 41,861	1,538 54,875	1,077 54,586	1,309 37,989	1,061 28,646
Production workers								
Number 1/	8,966	3,096	1,152	1,025	899	738	652	482
Hours (1,000)	18,148	6,500	1,860	1,994	1,732	1,654	1,238	890
Wages (\$1,000)	299,466	94,006	25,320	24,601	31,183	37,541	16,496	10,151
Value added (\$1,000)	2,049,067	544,935	105,648	164,666	121,418	190,714	60,483	45,337
Total cost of materials (\$1,000) 2/	5,301,463	444,485	59,998	141,602	61,645	130,820	66,475	60,715
Total value of shipments (\$1,000) 2/	7,300,965	986,050	164,288	301,316	181,624	322,444	121,757	100,946
Total capital expenditures (\$1,000)	173,501	45,698	5,163	3,757	5,125	14,644	4,099	3,962

<sup>1/</sup> 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.

<sup>2/</sup> 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, 2006 Geographic Area Statistics, "2006 Annual Survey of Manufactures" <a href="http://www.census.gov/mcd/asm-as3.html">http://www.census.gov/mcd/asm-as3.html</a> accessed June 16, 2008.

# Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES (NAICS 31-33), BY SELECTED NAICS CODE: 2006

[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	1,061	15,149	541,813	35,766
311	Food	309	6,314	175,604	27,814
3113	Sugar & confectionery product	22	845	28,309	33,518
3114	Fruit & vegetable preserving & specialty	27	688	22,073	32,072
3115	Dairy product	11	363	16,447	45,276
3116	Animal slaughtering & processing	22	548	13,786	25,173
3118	Bakeries & tortilla	138	1,956	45,484	23,253
312	Beverage and tobacco product	32	753	32,719	43,461
3121	Beverage	32	753	32,719	43,461
314	Textile product mills	24	212	5,732	27,019
315	Apparel	78	831	15,709	18,905
321	Wood product	37	362	13,227	36,573
3212	Plywood & engineered wood product	10	202	8,290	41,072
3219	Other wood product	21	133	4,169	31,287
322	Paper	9	213	8,879	41,765
323	Printing & related support activities	122	1,189	39,576	33,299
325	Chemical	34	374	15,439	41,263
326	Plastics & rubber products	18	284	10,673	37,626
327	Nonmetallic mineral product	70	1,127	62,942	55,870
3272	Glass & glass product	10	51	1,341	26,476
3273	Cement & concrete product	34	861	53,726	62,375
3279	Other non-metallic mineral products	18	184	7,235	39,301
332	Fabricated metal product	44	475	21,383	45,040
3323	Architectural & structural metals	27	272	11,278	41,449
334	Computer & electronic product	13	67	3,724	55,996
336	Transportation equipment	29	538	26,024	48,387
3366	Ship & boat building	17	495	24,173	48,835
337	Furniture & related product	60	563	23,327	41,428
339	Miscellaneous	162	1,208	38,614	31,961
3391	Medical equipment & supplies	43	295	11,592	39,318
3399	Other miscellaneous	119	913	27,021	29,585

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages*, *Annual Averages* 2006, table 10 <a href="http://www.bls.gov/cew/cewbultn06.htm">http://www.bls.gov/cew/cewbultn06.htm</a> accessed April 8, 2008.

### Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING: 1987 TO 2007

[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	1994	618,238	2001	611,292
1988	629,303	1995	614,771	2002	612,658
1989	630,997	1996	622,889	2003	638,863
1990	728,387	1997	581,259	2004	642,245
1991	714,407	1998	535,371	2005	699,877
1992	714,470	1999	585,305	2006 1/	781,626
1993	717,423	2000	586,039	2007	766,208

<sup>1/</sup> Revised from previous *Data Book*.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual). 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 13, 2008.

Table 22.07-- INDUSTRIAL AND HIGH-TECHNOLOGY PARKS, BY ISLAND: 2006 AND 2007

Subject	State total	Hawaii	Maui	Molokai	Oahu	Kauai
2006						
Number of parks	25	5	4	1	13	2
Total acres	4,870.76	1,870.00	651.00	19.04	2,261.72	69.00
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	2/ 616	1	3/ 834	57
Number of owners	4/ 418	4	5/ 147	9	5/ 178	80

<sup>1/</sup> Excludes 3 parks with no data available on number of tenants.

Source: *Pacific Business News*, Vol. 44, No. 46 (January 12, 2007), p. 18; Vol. 45, No. 46 (January 11, 2008), p. 24.

<sup>2/</sup> Excludes 2 parks with no data available on number of tenants.

<sup>3/</sup> Excludes 1 park with no data available on number of tenants.

<sup>4/</sup> Excludes 2 parks with no data available on number of owners.

<sup>5/</sup> Excludes 1 park with no data available on number of owners.

# Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES, AND SUGAR COMPANIES AND MILLS, 1955 TO 2007, AND BY ISLAND, 2006 AND 2007

		apple ning season)	Sugar (December 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 3	3	16	17	
1980	3	3	15	14	
1985		2	14	12	
1990	4	2	12	12	
1994	3	1	9	10	
1995	3	1	8	10	
1996	3	1	4	6	
1997	3	1	4	6	
1998	3 3	1	4	6	
1999	3	1	4	6	
2000	3	1	3	4	
2001	3	1	2	2	
2002	3	1	2	2	
2003	3 3 3 3 2	1	2	2	
2004	3	1	2	2	
2005	3	1	2	2 2	
2006	3	1	2	2	
2007	2	-	2	2	
ISLAND: 2006					
Hawaii	-	-	-	-	
Maui	1	1	1	1	
Oahu	2	-	-	-	
Kauai	-	-	1	1	
ISLAND: 2007					
Hawaii	-	-	-	-	
Maui	1	-	1	1	
Oahu	1	-	-	-	
Kauai	-	-	1	1	

<sup>1/</sup> 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 22.09-- SUGAR AND MOLASSES PRODUCTION: 1991 TO 2007

	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	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	1,471,612	206,008	192,535	62,231

NA Not available.

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

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

### Table 22.10-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION: 1980 TO 2006

[In millions of dollars]

	Pinea	apple	Su	gar
Year	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	3/ 4.6
2006	(NA)	62.4	74.8	4.9

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual) <a href="http://www.nass.usda.gov/hi/stats/stat-pgs.htm">http://www.nass.usda.gov/hi/stats/stat-pgs.htm</a>> accessed April 22, 2008; and records.

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

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

<sup>3/</sup> Revised from previous Data Book.