Table

Number Table Name

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

Narrative

2002
IAICS
1950 to
•

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. 1997 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: 2006.*

Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES (NAICS 31- 33): 1999 TO 2004

[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	1999	2000	2001	2002	2003	2004
All employees						
Number (1,000)	15.2	14.6	14.4	13.2	13.6	14.0
Payroll (million dollars)	409.4	428.0	447.4	421.3	434.4	522.3
Production workers						
Number (1,000) 1/	10.0	9.6	9.1	8.9	9.0	8.9
Hours (millions)	18.0	18.0	16.7	16.8	17.6	21.7
Wages (million dollars)	217.2	232.0	224.7	254.7	269.1	322.5
Value added by manufacture						1
(million dollars)	1,236.1	1,357.2	907.3	1,217.7	1,224.5	1,489.3
Cost of materials 2/						
(million dollars)	1,810.6	2,444.1	2,268.6	2,246.5	2,641.9	3,123.5
Value of shipments 2/ (million dollars)	3,024.5	3,732.3	3,196.4	3,460.2	3,879.7	4,560.5
Total capital expenditures (million dollars)	89.9	105.4	157.2	83.0	91.3	98.9

^{1/} 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, *Annual Survey of Manufactures, Geographic Area Statistics*, 2000, M00(AS)-3 (March 2002), table 2; 2001, M01(AS)-3 (January 2003), table 2; 2003, M03(AS)-3 (May 2005), table 2; 2004, M04 (AS)-3 (January 2006), table 2

^{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.

http://www.census.gov/mcd/asm-as3.html accessed July 24, 2006;

U.S. Census Bureau, 2002 Economic Census, Manufacturing, Geographic Area Series, Hawaii, EC02-31A-HI (RV) (September 2005), table 1 http://www.census.gov/prod/ec02/ec0231ahi.pdf accessed October 6, 2005.

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 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 </td <td>All establishments 2/</td> <td>921</td> <td>929</td>	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) Q3,407 15,109 13,200 1405,045 421,269 98,362 91,591 8,865 9,768 8,830 9,768 8,830 10,194 8,880 10,194 8,880 10,194 8,880 110,19	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 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 A9,768 B,830 A9,768 B,830 A9,768 B,830 A10,194 B,880	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) 41,122 23,281 21,969 41,122 33,294 245,275 204,563 (4/) 356,114	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 http://www.census.gov/prod/ec02/ec0231ahi.pdf> accessed October 6, 2005.

^{1/} 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]

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County 1/	Maui County
			•	Í	,
All establishments 2/	929	683	114	39	93
With 20 employees or more	157	132	14	3	8
All employees	40.000	40.050	4.040	040	4 404
Number	13,200	10,253	1,246 38,289	210 5,903	1,491 50,232
Payroll (\$1,000)	421,269	326,845	30,209	5,903	50,232
Production workers					
Number 3/	8,865	6,855	740	129	1,141
Hours (1,000)	16,837	12,920	1,466	247	2,204
Wages (\$1,000)	254,713	195,266	20,463	3,344	35,640
Value added by manufacture					
(\$1,000)	1,217,728	948,546	97,719	14,403	157,060
Control materials 4/					
Cost of materials 4/	2,246,539	2,017,417	102,186	12.047	113,889
(\$1,000)	2,240,539	2,017,417	102,100	13,047	113,009
Value of shipments 4/					
(\$1,000)	3,460,199	2,959,134	204,377	26,132	270,556
(+ -,)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_: 0,000
Total capital expenditures					
(\$1,000)	82,960	59,572	6,371	443	16,574

^{1/} 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 http://www.census.gov/prod/ec02/ec0231ahi.pdf accessed October 6, 2005. Calculations by the Hawaii State Department of Business, Economic Development & Tourism.

^{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.

^{4/} 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 GROUPS (NAICS 31 - 33): 2002

[Industry groups and industries with 100 employees or more. Statistics based on the North American Industry Classification System (NAICS)]

Subject	Total	Food NAICS 311	Apparel NAICS 315	Printing & related support NAICS 323	Cement & concrete product NAICS 3273	Fabricated metal product NAICS 332	Furniture & related product NAICS 337	Miscel- laneous NAICS 339
All establishments 1/								
Number	929	259	86	120	31	42	40	148
20 employees or more	157	54	14	19	16	8	7	11
All employees								
Number	13,200	5,224	1,109	1,615	756	454	350	1,089
Payroll (\$1,000)	421,269	145,699	22,934	49,469	37,929	17,075	11,122	30,099
Production workers Number 2/ Hours (1,000) Wages (\$1,000)	8,865 16,837 254,713	3,597 6,693 90,162	908 1,716 13,759	945 1,638 27,938	485 1,064 24,314	304 583 10,584	267 524 7,183	641 1,146 14,898
Value added by manufact. (\$1,000)	1,217,728	478,098	49,136	107,855	99,106	41,599	25,900	49,938
Cost of materials 3/ (\$1,000)	2,246,539	427,972	32,045	60,697	92,111	44,842	18,753	40,288
Value of shipments 3/ (\$1,000)	3,460,199	908,464	80,776	166,901	189,628	85,666	44,579	88,765
Total capital expenditures (\$1,000)	82,960	26,914	(4/)	(4/)	10,477	1,350	(4/)	(4/)

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

Source: U.S. Census Bureau, 2002 Economic Census, Manufacturing, Geographic Area Series, Hawaii,

EC02-31A-HI (RV) (September 2005), table 1 http://www.census.gov/prod/ec02/ec0231ahi.pdf accessed October 6, 2005.

^{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.

^{4/} Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

Table 22.05-- MANUFACTURING, BY SELECTED INDUSTRY GROUPS (NAICS 31 - 33): 2003

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

		Food	Food, bakeries & tortilla	Apparel NAICS	cut & sew	Printing & related support NAICS	Miscel- laneous	Other miscel-laneous
Subject	Total	NAICS 311	NAICS 3118	315	NAICS 3152	323	NAICS 339	NAICS 3399
All employees Number 1/ Payroll (\$1,000)	13,564 434,350	5,361 141,250	1,676 37,399	1,009 21,726	1,004 21,586	1,339 43,520	1,345 37,982	1,094 30,335
Production workers Number 1/ Hours (1,000) Wages (\$1,000)	8,988 17,649 269,084	3,571 6,619 86,801	1,034 1,762 23,769	779 1,693 14,078	774 1,684 13,978	900 1,836 32,655	685 1,291 15,343	510 957 9,891
Value added (\$1,000)	1,224,485	530,021	95,893	38,176	37,936	91,836	50,697	36,174
Cost of materials 2/ (\$1,000)	2,641,892	523,622	44,931	33,235	32,977	49,684	45,275	41,032
Value of shipments 2/ (\$1,000)	3,879,733	1,050,259	142,556	71,975	71,477	140,481	93,412	74,736
Total capital expendit. (\$1,000)	91,327	28,419	9,626	237	236	1,992	2,316	2,216

^{1/} 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.

^{2/} 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, Geographic Area Statistics: 2003, Annual Survey of Manufactures, M03(AS)-3 (May 2005), table 2 http://www.census.gov/mcd/asm-as3.html accessed June 8, 2005.

Table 22.06-- MANUFACTURING EMPLOYMENT AND WAGES, SELECTED NAICS CODES: 2004

[Excludes establishments without 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	1,075	15,489	504,555	32,576
311	Food	304	6,510	167,648	25,751
3113	Sugar & confectionery product	22	844	26,124	30,965
3114	Fruit & vegetable preserving & specialty	29	829	22,739	27,422
3115	Dairy product	11	358	17,058	47,614
3116	Animal slaughtering & processing	26	614	14,007	22,798
3118	Bakeries & tortilla	128	1,841	40,332	21,914
3121	Beverage	28	701	28,478	40,625
314	Textile product mills	26	155	3,349	21,580
315	Apparel	96	1,106	23,593	21,327
3212	Plywood & engineered wood product	6	116	3,797	32,761
3219	Other wood product	23	145	4,078	28,156
3231	Printing & related support activities	133	1,309	41,618	31,800
325	Chemical	30	376	13,978	37,134
326	Plastics & rubber products	20	271	8,821	32,519
3271	Clay product & refractory	6	33	574	17,179
3272	Glass & glass product	10	57	1,495	26,226
3273	Cement & concrete product	31	822	45,622	55,479
3279	Other non-metallic mineral products	15	180	6,491	36,059
332	Fabricated metal product	45	489	19,815	40,563
333	Machinery	8	42	1,451	34,345
336	Transportation equipment	29	637	26,322	41,305
3366	Ship and boat building	20	603	24,760	41,039
337	Furniture & related product	62	618	25,109	40,640
3391	Medical equipment & supplies	46	220	7,153	32,588
3399	Other miscellaneous	115	908	24,175	26,617

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages*, *Annual Averages* 2004, table 10 http://www.bls.gov/cew/cewbultn04.htm accessed April 10, 2006.

Table 22.07-- GENERAL EXCISE TAX BASE FOR MANUFACTURING: 1987 TO 2005

[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]

Year 1/	Tax base	Year 1/	Tax base	Year 1/	Tax base
1987 1988 1989 1990 1991 1992 1993	595,140 629,303 630,997 728,387 714,407 714,470 717,423	1994 1995 1996 1997 1998 1999 2000	618,238 614,771 622,889 581,259 535,371 585,305 586,039	2001 2002 2003 2004 2005	611,292 612,658 638,863 642,245 677,280

^{1/} Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Collections" (annual). Beginning in 1997, http://www.state.hi.us/tax/a5_3txcolrptarchive.htm accessed March 20, 2006.

Table 22.08-- INDUSTRIAL AND HIGH-TECHNOLOGY PARKS, BY ISLAND

Subject	State	Hawaii	Maui	Molokai	Oahu	Kauai
Number of parks	22	5	3	1	12	1
Total acres	4,755.03	1,651.00	649.00	18.23	2,403.80	33.00

Source: Pacific Business News, Book of Lists 2006 Edition (December 23, 2005), p. 106.

Table 22.09-- PINEAPPLE COMPANIES AND CANNERIES, AND SUGAR COMPANIES AND MILLS, 1955 TO 2005, AND BY ISLAND, 2004 AND 2005

Year Companies Canneries 1955 10 8 1960 8 9 1965 6 6 1970 4 4 1975 3 3 1980 3 3 1985 3 2 1990 4 2	28 27 25 23 16 15 14 12	26 27 27 26 17 14 12
1960 8 9 1965 6 6 1970 4 4 1975 3 3 1980 3 3 1985 3 2	27 25 23 16 15 14	27 27 26 17 14 12
1960 8 9 1965 6 6 1970 4 4 1975 3 3 1980 3 3 1985 3 2	27 25 23 16 15 14	27 27 26 17 14 12
1970 4 4 1975 3 3 1980 3 3 1985 3 2	23 16 15 14 12	26 17 14 12
1975 3 3 1980 3 3 1985 3 2	16 15 14 12	17 14 12
1980 3 1985 3 2	15 14 12	14 12
	14 12	12
	12	
1990 4 2		12
ı	9	
1994 3 1		10
1995 3 1	8	10
1996 3 1	4	6
1997 3 1	4	6
1998 3 1	4	6
1999 3 1	4	6
2000 3 1	3	4
2001 3 1 2002 3 1 2003 3 1 2004 3 1 2005 3 1	2	2
2002 3 1	2	2
2003 3 1	2	2
2004 3 1	2 2	2 2
2005 3 1	2	2
ISLANDS: 2004		
Hawaii	-	-
Maui 1 1	1	1
Oahu 2 -	-	-
Kauai	1	1
ISLANDS: 2005		
Hawaii	-	-
Maui 1 1	1	1
Oahu 2 -	-	-
Kauai	1	1

^{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 2005

	Cane land (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	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

^{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 2004

[In millions of dollars]

	Pineapple		Sugar	
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
4000	404.0		0.400	
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	3/ 64.4	3/ 78.5	95.9	3.1
2004	57.3	65.9	91.7	2.4

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

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual) http://www.nass.usda.gov/hi/stats/stat-pgs.htm; records.

^{2/} Value FAS shipping point for outshipments, delivered wholesalers local sales.

^{3/} Revised from previous Data Book.