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**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1996 TO 2001**

Subject	1996	1997	1998	1999	2000	2001
All employees:						
Number (1,000)	17.1	15.1	15.4	15.2	14.6	14.4
Payroll (million dollars)	509.4	404.6	395.5	409.4	1/ 428.0	447.4
Production workers:						
Number (1,000)	10.1	9.9	10.4	10.0	9.6	9.1
Hours (millions)	19.7	18.3	19.2	18.0	18.0	16.7
Wages (million dollars)	250.6	231.3	228.0	217.2	1/ 232.0	224.7
Value added by manufacture (million dollars)	1,608.5	1,261.3	1,141.2	1,236.1	1/ 1,357.2	907.3
Cost of materials 2/ (million dollars)	1,546.7	1,939.9	1,669.0	1,810.6	2,444.1	2,268.6
Value of shipments 2/ (million dollars)	3,145.5	3,189.9	2,833.4	3,024.5	3,732.3	3,196.4
Total capital expenditures (million dollars)	79.0	100.7	94.1	89.9	105.4	157.2

1/ Revised from previous *Data Book*.

2/ Aggregate 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, *Annual Survey of Manufactures, Geographic Area Statistics, 1996*, M96 (AS)-3 (April 1998), table 1; *2000*, M00 (AS)-3 (March 2002), table 2; *2001*, M01(AS)-3 (January 2003), table 2 <<http://www.census.gov/prod/2003pubs/m01as-3.pdf>> accessed April 19, 2003.

Table 22.02-- DETAILED MANUFACTURING STATISTICS: 1997

[NAICS Industries 31-33]

Item	Value
Companies 1/	895
All establishments	921
Establishments with 1 to 19 employees	762
Establishments with 20 to 99 employees	130
Establishments with 100 employees or more	29
All employees	15,109
Total compensation (\$1,000) 2/	503,407
Annual payroll (\$1,000)	405,045
Total fringe benefits (\$1,000)	98,362
Production workers, average for year	9,899
Production workers on March 12	9,835
Production workers on May 12	9,768
Production workers on August 12	10,194
Production workers on November 12	9,799
Production-worker hours (1,000)	18,362
Production-worker wages (\$1,000)	231,595
Total cost of materials	1,941,147
Cost of materials, parts, containers, etc., consumed (\$1,000)	1,673,002
Cost of resales (\$1,000)	152,624
Cost of fuels (\$1,000)	51,118
Cost of purchased electricity (\$1,000)	23,281
Cost of contract work (\$1,000)	41,122
Quantity of electricity purchased for heat and power (1,000 kWh)	245,275
Quantity of electricity generated less sold for heat and power (1,000 kWh)	(D)
Total value of shipments (\$1,000)	3,192,532
Value of resales (\$1,000)	181,478
Value added (\$1,000)	1,262,448
Total inventories, beginning of year (\$1,000)	336,547
Finished goods inventories, beginning of year (\$1,000)	175,028
Work-in-process inventories, beginning of year (\$1,000)	46,214
Materials and supplies inventories, beginning of year (\$1,000)	115,305

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Table 22.02-- DETAILED MANUFACTURING STATISTICS: 1997 -- Con.

[NAICS Industries 31-33]

Item	Value
Total inventories, end of year	351,344
Finished goods inventories, end of year (\$1,000)	188,052
Work-in-process inventories, end of year (\$1,000)	47,984
Materials and supplies inventories, end of year (\$1,000)	115,308
Gross book value of total assets at beginning of year (\$1,000)	1,221,564
Total capital expenditures (new and used) (\$1,000)	100,707
Capital expenditures for buildings and other structures (new and used) (\$1,000)	38,742
Capital expenditures for machinery and equipment (new and used) (\$1,000)	61,965
Total retirements (\$1,000) 2/	24,447
Gross book value of total assets at end of year (\$1,000)	1,297,824
Total depreciation during year (\$1,000) /2	68,301
Total rental payments (\$1,000) /2	38,447
Buildings and other structures rental payments (\$1,000) /2	23,072
Machinery and equipment rental payments (\$1,000) /2	15,375

D Withheld to avoid disclosing data for individual companies.

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

2/ These items are collected in the ASM (Annual Survey of Manufacturers) and estimated for the remaining establishments.

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

**Table 22.03-- STATISTICAL SUMMARY OF MANUFACTURING, BY COUNTIES:
1997**

[NAICS 31-33]

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County 1/	Maui County
All establishments 2/ (number)	921	685	106	30	100
With 20 employees or more	159	133	13	4	9
All employees:					
Number	15,109	11,161	1,588	441	1,919
Payroll (\$1,000)	405,045	300,856	37,458	15,429	51,302
Production workers:					
Number	9,899	7,034	1,076	280	1,509
Hours (1,000)	18,362	13,018	1,954	560	2,830
Wages (\$1,000)	231,595	164,815	21,133	9,351	36,296
Value added by manufacture (\$1,000)	1,262,448	1,042,807	81,221	15,077	123,343
Cost of materials 3/ (\$1,000)	1,941,147	1,659,321	113,642	32,795	135,389
Value of shipments 3/ (\$1,000)	3,192,532	2,692,239	192,461	48,224	259,608
Total capital expenditures (\$1,000)	100,707	77,715	14,236	4,736	4,020

1/ Kauai data calculated as residual by DBEDT.

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

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, 1997 *Economic Census Manufacturing, Geographic Area Series, Hawaii*, EC97M31A-HI (May 2000), tables 1 and 3.

Table 22.04-- MANUFACTURING, BY SELECTED INDUSTRY GROUPS: 1997

[NAICS Industries 31 - 33]

Subject	Total	Food mfg	Apparel	Printing &	Cement &	Transp.	Furniture	Miscell.
		(NAICS 311)	mfg (NAICS 315)	& rel sup (NAICS 323)	con. prod mfg (NAICS 3273)	Equip. mfg (NAICS 336)	& rel. prod. mfg (NAICS 337)	mfg (NAICS 339)
All establishments								
Number	921	244	93	123	33	24	47	146
With 20 employees or more	159	55	21	19	10	6	5	13
All employees								
Number	15,109	6,118	1,555	1,736	613	400	372	1,372
Payroll (\$1,000)	405,045	153,304	28,924	42,452	26,662	13,418	10,339	31,297
Production workers:								
Number	9,899	4,132	1,221	1,072	437	328	286	767
Hours (1,000)	18,362	7,497	2,250	2,010	901	585	554	1,305
Wages (\$1,000)	231,595	90,110	17,243	27,109	18,238	10,306	6,931	15,528
Value added by manufacture (\$1,000)	1,262,448	402,859	70,638	80,317	60,573	26,088	23,608	71,149
Cost of materials (\$1,000)	1,941,147	475,773	62,975	59,396	69,264	21,138	18,302	36,239
Value of shipments (\$1,000)	3,192,532	878,143	133,900	140,213	129,904	47,327	40,407	106,043
Total capital expenditures (\$1,000)	100,707	32,687	1,833	9,658	3,528	816	(D)	2,670

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Census Bureau, 1997 *Economic Census, Manufacturing, Geographic Area Series, Hawaii*,

EC97M31A-HI (May 2000), table 1.

Table 22.05-- PRIVATE INDUSTRY MANUFACTURING EMPLOYMENT AND WAGES, ANNUAL AVERAGES: 2002

[Data are final and represent the complete count of employment and wages for workers covered by the unemployment compensation program]

NAICS code 1/	Manufacturing	Average establish- ments	Annual average employ- ment	Total annual wages (\$1,000)	Annual wages per employee
	Total	1,130	15,240	467,663	30,687
311	Food mfg.	321	6,438	156,414	24,296
3113	Sugar & confectionery product	28	841	24,752	29,438
3114	Fruit & vegetable preserving & specialty	26	874	24,136	27,616
3115	Dairy product mfg.	13	418	15,916	38,123
3116	Animal slaughtering & processing	25	379	7,634	20,129
3118	Bakeries & tortilla mfg.	139	1,993	41,539	20,844
3121	Beverage mfg.	27	733	26,728	36,477
314	Textile product mills	30	95	2,089	22,052
315	Apparel	22	177	2,499	14,132
3162	Footwear mfg.	4	42	647	15,488
3212	Plywood & engineered wood product mfg.	4	75	2,740	36,618
3219	Other wood product mfg.	26	134	3,364	25,056
3222	Converted paper product mfg.	7	159	6,555	41,182
3231	Printing & related support activities	145	1,297	40,198	31,005
3241	Petroleum & coal products	7	423	32,538	76,846
325	Chemical mfg.	37	480	19,342	40,268
326	Plastics & rubber products mfg.	16	209	6,658	31,869
3271	Clay products & refractory	10	29	367	12,475
3272	Glass & glass product mfg.	10	81	2,016	24,965
3273	Cement & concrete product mfg.	37	780	41,398	53,085
3279	Other non-metallic mineral products	14	125	3,387	27,064
332	Fabricated metal product mfg.	42	414	15,843	38,306
333	Machinery mfg.	8	50	1,387	27,704
334	Computer & electronic product mfg.	(2/)	(2/)	(2/)	(2/)
336	Transportation equipment mfg.	74	2,119	66,580	31,425
337	Furniture & related product mfg.	61	590	19,558	33,172
3391	Medical equipment & supplies mfg.	48	231	7,426	32,196
3399	Other miscellaneous mfg.	119	856	20,753	24,246

1/ North American Industrial Classification System.

2/ Data do not meet U.S. Bureau of Labor Statistics or state agency disclosure standards.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2002* (Bulletin 2563, November 2003), table 10 <<http://www.bls.gov/cew/cewbultn02.htm>> accessed July 11, 2004.

**Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1987 TO 2003**

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

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 Base" (annual tabular release).

**Table 22.07-- INDUSTRIAL AND HIGH TECHNOLOGY PARKS,
BY ISLAND: 2003**

Subject	State total	Hawaii	Maui	Oahu	Kauai
Number of parks	20	5	4	10	1
Acres					
Total	4,572	1,741	682	2,143	6
Developed	1/ 2,695	1/ 651	119	1,920	5

1/ Excluding Kona Industrial Park (total of 167 acres).

Source: Pacific Business News, *2004 Book of Lists*, p. 133.

**Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES, AND
SUGAR COMPANIES AND MILLS, 1950 TO 2003,
AND BY ISLANDS, 2002 AND 2003**

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies	Canneries	Companies 1/	Mills
1950	9	8	28	26
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
1993	3	1	11	12
1994	3	1	9	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	2	2
2002	3	1	2	2
2003	3	1	2	2
ISLANDS: 2002				
Hawaii	-	-	-	-
Maui	1	1	1	1
Oahu	2	-	-	-
Kauai	-	-	1	1
ISLANDS: 2003				
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 22.09-- SUGAR AND MOLASSES PRODUCTION: 1991 TO 2003

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

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 22.10-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION:
1980 TO 2002**

[In millions of dollars]

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

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

2/ Includes "fresh cut". Value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual) and records
<http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 12, 2004.