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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. 2012 Economic Census, the U.S. Annual Survey of Manufactures, publications by the Hawaii State Department of Agriculture and the Hawaii State Department of Taxation, and the Hawaiian Sugar Manual of the former Hawaiian Sugar Planters' Association, now the Hawaii Agriculture Research Center. Historical Statistics of Hawaii, Section 16, contains the figures for earlier years. Statistics for the nation as a whole appear in Section 21 of the Statistical Abstract of the United States: 2012.

Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES (NAICS 31-33): 2010 TO 2016

Subject	2010	2011	2012	2013	2014	2015 1/	2016
All employees							
Number (1,000)	10.7	10.7	11.4	10.9	11.5	11.4	11.5
Payroll	429.6	431.0	465.0	471.4	533.8	554.9	568.3
Production workers							
Number (1,000)	6.8	6.7	7.4	6.9	7.4	7.4	7.1
Hours	13.0	12.9	13.6	13.4	13.8	14.7	13.8
Wages	238.1	232.3	258.0	268.0	309.1	334.2	311.9
Value added by manufacture	1,391.4	1,456.6	1,101.0	1,138.2	(D)	(D)	2,092.8
Cost of materials 2/	5,044.0	6,353.3	6,740.8	5,282.6	5,029.0	3,894.8	3,543.4
Value of shipments 2/	6,399.1	7,694.5	(D)	6,435.6	6,370.4	5,897.7	5,686.3
Total capital expenditures	75.0	101.3	108.4	103.7	115.9	116.6	129.6

[In millions of dollars unless otherwise noted. Industry groups with 950 employees or more. Statistics based on the 2012 North American Industry Classification System (NAICS)]

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ Revised from previous Data Book.

2/ Aggregate of total cost of materials and total value of shipments includes extensive duplication,

since products of some industries are used as materials of others.

Source: U.S. Census Bureau, *Annual Survey of Manufactures, Geographic Area Statistics* (annual) https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml accessed June 25, 2018.

Table 22.02-- DETAILED MANUFACTURING STATISTICS (NAICS 31-33): 2007 AND 2012

[Statistics based on the 2012 North American Industry Classification System (NAICS)]

Item	2007	2012
Companies 1/	942	764
All establishments 2/	984	796
0 to 19 employees	813	670
20 to 99 employees	148	104
100 employees or more	23	22
All employees 3/	14,127	11,440
Total compensation (\$1,000)	674,489	602,703
Annual payroll	511,486	465,024
Total fringe benefits	163,003	137,679
Employer cost for health insurance (\$1,000)	51,348	51,919
Production workers, average for year	9,487	7,396
Pay period including March 12	9,671	7,374
Pay period including June 12	9,478	7,355
Pay period including September 12	9,416	7,412
Pay period including December 12	9,383	7,443
Production-worker hours (1,000)	17,480	13,640
Production-worker wages (\$1,000)	294,394	257,974
Total cost of materials (\$1,000)	5,812,515	6,740,826
Materials, parts, containers, packaging, etc., used	5,010,642	5,975,005
Resales	632,000	570,928
Purchased fuels	98,510	121,202
Purchased electricity	32,373	43,758
Contract work	38,990	29,933
Quantity of electricity purchased for heat and power (1,000 kWh)	193,390	129,712
Quantity of electricity generated (1,000 kWh)	454,207	(D)
Quantity of electricity sold or transferred (1,000 kWh)	(D)	(D)
Total value of shipments (\$1,000)	8,799,266	(D)
Value of resales	730,979	645,048
Value added (\$1,000)	3,013,731	1,101,021

Continued on next page.

Table 22.02-- DETAILED MANUFACTURING STATISTICS (NAICS 31-33): 2007 AND 2012 -- Con.

Item	2007	2012
Total inventories, beginning of year (\$1,000)	761,942	781,501
Finished goods	485,768	(D)
Work-in-process	(D)	(D)
Materials and supplies	(D)	188,586
	· · · · ·	,
Total inventories, end of year (\$1,000)	776,859	1,025,186
Finished goods	542,393	390,834
Work-in-process	69,898	403,979
Materials and supplies	164,568	230,373
Cross value of depresiable assets (acquisition assts)		
Gross value of depreciable assets (acquisition costs) at beginning of year (\$1,000)	1,788,164	2,698,293
Total capital expenditures (new and used)	86,735	108,404
Buildings and other structures	15,982	12,834
Machinery and equipment	70,753	95,570
Automobiles, trucks, etc., for highway use	6,713	5,922
Computers and peripheral data processing equipment	8,606	5,513
All other expenditures for machinery and equipment	55,434	84,135
Total retirements	88,206	26,143
Gross value of depreciable assets at end of year (\$1,000)	1,786,693	2,780,554
Depreciation charges during year (\$1,000)	83,345	160,578
Total rental payments (\$1,000)	49,759	60,822
Buildings and other structures	31,654	47,139
Machinery and equipment	18,105	13,683

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, June, September, and December plus other employees for payroll period that includes the 12th of March.

Source: 2007 Economic Census: EC0731A2, "Manufacturing, Geographic Area Series, Detailed Statistics for the State: 2007" (April 2010) http://www.census.gov/econ/census07/www/get_data.html accessed June 9, 2010; 2012 Economic Census: EC1231A2, "Manufacturing, Geographic Area Series, Detailed Statistics for the State: 2012" (June 2015) http://factfinder.census.gov/bkmk/table/1.0/en/ECN/2012_US/31A2/0400000US15/naics~31-33 accessed July 1, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 22.03-- STATISTICAL SUMMARY OF MANUFACTURING(NAICS 31-33), BY COUNTY: 2012

[For the State, industries with 100 employees or more; for the countries, industries with 500 employees or more. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Subject	State total	City and County of Honolulu	Hawaii	Maui	Kauai
All establishments 1/	796	544	112	99	41
With 20 employees or more	126	106	13	7	-
All employees					
Number	11,440	9,076	1,182	997	185
Payroll (\$1,000)	465,024	370,762	46,354	41,107	6,801
Production workers					
Number	7,396	5,836	823	623	114
Hours (1,000)	13,640	10,715	1,463	1,261	201
Wages (\$1,000)	257,974	201,848	26,236	25,641	4,249
Value added by manufacture					
(\$1,000)	1,101,021	761,410	145,838	172,964	20,809
Cost of materials 2/					
(\$1,000)	6,740,826	6,486,422	133,398	104,138	16,868
Value of shipments 2/					
(\$1,000)	(D)	(D)	283,326	(D)	(D)
(+ / /	(-)	(-)	,	(-)	()
Total capital expenditures					
(\$1,000)	108,404	84,849	10,304	12,318	933

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

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

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, 2012 Economic Census: EC1231A1, "Manufacturing, Geographic Area Series, Industry Statistics for the States, Metropolitan and Micropolitan Statistical Areas, Counties, and Places: 2012" (June 2015) http://factfinder.census.gov/bkmk/table/1.0/en/ECN/2012_US/31A1/0400000US15 [0400000US15.05000/naics~31-33> accessed July 6, 2015.

Table 22.04-- MANUFACTURING, BY SELECTED INDUSTRY GROUP(NAICS 31-33): 2016

[Industry groups with 950 employees or more. Statistics based on the 2012 North American Industry Classification System (NAICS)]

			Food, bakeries & tortilla	Printing & related	Printing & related support	Non- metallic
Subject	Total	Food NAICS 311	NAICS 3118	support NAICS 323	NAICS 3231	mineral NAICS 327
All employees						
Number	11,513	4,926	2,138	618	618	976
Payroll (\$1,000)	568,275	187,777	78,851	27,241	27,241	64,755
Production workers						
Number	7,149	2,847	1,283	395	395	760
Hours (1,000)	13,826	4,985	1,814	772	772	1,806
Wages (\$1,000)	311,884	83,975	1/ 26,113	15,423	15,423	47,311
Total cost of materials (\$1,000) 2/	3,543,442	700,010	116,318	(D)	(D)	(D)
Total value of shipments (\$1,000) 2/	5,686,253	1,448,745	1/ 418,653	131,609	131,609	353,062
Value added (\$1,000)	2,092,829	731,826	1/ 302,152	83,124	83,124	219,136
Capital expenditures	129,621	38,220	14,759	1,851	1,851	9,009

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ Relative standard error is 40 percent or more and less than 100 percent.

2/ Aggregate of total cost of materials and total value of shipments includes extensive duplication,

since products of some industries are used as materials of others.

Source: U.S. Census Bureau, Annual Survey of Manufactures, AM1631AS101: Geographic Area Statistics, Statistics for All Manufacturing by State https://factfinder.census.gov> accessed June 25, 2018.

Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES(NAICS 31-33), BY SELECTED NAICS CODE: 2016

[Includes only establishments with payroll. Statistics based on the 2012 North American
Industry Classification System (NAICS)]

		Average	Annual average	Total annual	Annual
NAICS		establish-	employ-	wages	wages per
code	Industry	ments	ment	(\$1,000)	employee
				(+)y	
	Total	954	14,122	629,773	44,595
311	Food	322	6,672	216,900	32,508
3112	Grain and oilseed milling	4	34	679	19,972
3113	Sugar & confectionery product	25	787	29,885	37,986
3114	Fruit & vegetable preserving & specialty	22	383	11,704	30,598
3115	Dairy product	15	407	18,680	45,860
3116	Animal slaughtering & processing	20	445	16,970	38,178
3118	Bakeries & tortilla	143	2,685	76,438	28,465
3119	Other food	90	1,898	61,776	32,555
312	Beverage and tobacco product	36	972	47,476	48,843
3121	Beverage	36	972	47,476	48,843
314	Textile product mills	24	205	7,976	38,906
3141	Textile furnishings mills	7	135	5,730	42,552
3149	Other textile product mills	17	70	2,245	31,925
315	Apparel	51	429	11,882	27,692
321	Wood product	25	172	6,993	40,658
3212	Plywood & engineered wood product	5	86	3,110	36,303
322	Paper	4	87	4,732	54,700
3222	Converted paper product	4	87	4,732	54,700
323	Printing & related support activities	98	753	27,506	36,541
324	Petroleum and coal products	10	530	66,644	125,782
325	Chemical	34	326	15,417	47,352
3251	Basic chemical	8	126	7,498	59,549
3254	Soap, cleaning compound & toiletry	17	119	4,099	34,567
326	Plastics & rubber products	20	324	15,335	47,391
327	Nonmetallic mineral product	53	928	64,901	69,937
3271	Clay product and refractory	4	28	715	25,158
3272	Glass and glass product	7	31	1,190	38,374
3273	Cement & concrete product	25	756	56,662	74,949
3279	Other nonmetallic mineral products	17	113	6,335	56,270
332	Fabricated metal product	41	315	19,000	60,239
3323	Architectural and structural metals	27	214	12,632	58,936
3327	Machine shops & threaded product	6	31	1,281	41,448
3328	Coating, engraving & heat treating metals	4	21	1,030	49,069
334	Computer & electronic product	14	165	11,545	69,866
3345	Electronic instrument	10	130	9,799	75,332

Continued on next page.

Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES (NAICS 31-33), BY SELECTED NAICS CODE: 2016 -- Con.

NAICS code	Industry	Average establish- ments	Annual average employ- ment	Total annual wages (\$1,000)	Annual wages per employee
336	Transportation equipment	24	899	60,680	67,522
3366	Ship & boat building	20	878	59,248	67,449
337	Furniture & related product	49	345	16,454	47,740
3371	Household and institutional furniture	39	257	11,749	45,773
339	Miscellaneous	140	830	29,619	35,671
3391	Medical equipment & supplies	29	175	6,619	37,894
3399	Other miscellaneous	111	656	23,000	35,079

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, "Private, All Industry Aggregations, Hawaii 2016 Annual Averages"

<https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

Table 22.06-- MANUFACTURING, EMPLOYMENT AND WAGES(NAICS 31-33), BY SELECTED NAICS CODE: 2017

			Annual	Total	
		Average	average	annual	Annual
NAICS		establish-	employ-	wages	wages per
code	Industry	ments	ment	(\$1,000)	employee
	Total	1,011	14,256	646,825	45,373
311	Food	349	6,587	217,886	33,077
3112	Grain and oilseed milling	4	36	790	22,041
3113	Sugar & confectionery product	27	582	19,043	32,743
3114	Fruit & vegetable preserving & specialty	26	314	9,207	29,297
3115	Dairy product	15	428	19,976	46,708
3116	Animal slaughtering & processing	21	460	17,529	38,127
3118	Bakeries & tortilla	153	2,731	82,897	30,356
3119	Other food	99	2,000	67,604	33,809
312	Beverage and tobacco product	40	1,103	52,807	47,887
3121	Beverage	40	1,103	52,807	47,887
314	Textile product mills	25	198	8,258	41,741
3141	Textile furnishings mills	6	131	5,938	45,360
3149	Other textile product mills	19	67	2,319	34,661
315	Apparel	53	406	12,012	29,593
3152	Cut & sew apparel	53	406	12,012	29,593
321	Wood product	23	190	8,450	44,453
3212	Plywood & engineered wood product	6	106	4,394	41,293
322	Paper	4	91	4,938	54,460
3222	Converted paper product	4	91	4,938	54,460
323	Printing & related support activities	101	725	26,435	36,446
324	Petroleum and coal products	11	550	67,419	122,617
325	Chemical	37	331	16,212	48,978
3251	Basic chemical	11	123	7,550	61,299
3254	Soap, cleaning compound & toiletry	16	124	4,701	38,016
326	Plastics & rubber products	21	319	15,551	48,697
327	Nonmetallic mineral product	52	916	65,541	71,571
3271	Clay product and refractory	4	26	770	30,088
3272	Glass and glass product	6	28	1,226	43,803
3273	Cement & concrete product	25	749	57,174	76,343
3279	Other nonmetallic mineral products	17	113	6,370	56,249
332	Fabricated metal product	41	332	18,294	55,062
3323	Architectural and structural metals	27	233	12,972	55,634
3323 3327	Machine shops & threaded product	7	233 31	1,217	38,844
3328	Coating, engraving & heat treating metals	4	21	1,217	51,212
5520	Coaling, engraving a near rearing melas	4	21	1,000	51,212

[Includes only establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Continued on next page.

Table 22.06-- MANUFACTURING, EMPLOYMENT AND WAGES (NAICS 31-33), BY SELECTED NAICS CODE: 2017 -- Con.

NAICS code	Industry	Average establish- ments	Annual average employ- ment	Total annual wages (\$1,000)	Annual wages per employee
334	Computer & electronic product	17	183	13,514	73,745
3345	Semiconductor & electronic component	3	18	947	51,867
336	Transportation equipment	28	929	63,327	68,185
3366	Ship & boat building	24	907	61,542	67,833
337	Furniture & related product	58	377	18,025	47,853
3371	Household and institutional furniture	47	289	13,366	46,197
339	Miscellaneous	143	839	30,316	36,123
3391	Medical equipment & supplies	28	165	6,499	39,290
3399	Other miscellaneous	115	674	23,817	35,346

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, "Private, All Industry Aggregations, Hawaii 2017 Annual Averages"

<https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

Table 22.07-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:1987 TO 2017

[In thousands of dollars. Data exclude sugar processing, pineapple canning, and petroleum refining, and are on a cash basis accounting. Manufactured goods shipped out of State were exempted from the general excise tax by Act 239, SLH 1987, effective January 1, 1988. Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ending November 30]

Year	Tax base	Year	Tax base	Year	Tax base
1987 1988 1989 1990 1991 1992 1993	595,140 629,303 630,997 728,387 714,407 714,470 717,423	1998 1999 2000 2001 2002 2003 2004	535,371 585,305 586,039 611,292 612,658 638,863 642,245	2009 2010 2011 2012 2013 2014 2015	752,237 708,787 695,442 646,969 655,222 701,988 750,372
1994 1995 1996 1997	618,238 614,771 622,889 581,259	2005 2006 2007 2008	738,573 781,626 766,208 795,352	2016 2017	689,126 733,105

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual) and as revised. Beginning in 1997,<http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed June 25, 2018.

Table 22.08-- 25 LARGEST INDUSTRIAL AND HIGH-TECHNOLOGY PARKS, BY ISLAND: 2010 TO 2013

Subject	State total	Hawaii	Maui	Molokai	Oahu	Kauai
2010						
Number of parks Total acres Developed acres Number of tenants 1/ Number of owners 2/	25 4,983.52 2,932.10 1,125 537	4 1,864.22 569.50 207 111	5 777.30 205.30 20 194	1 16.50 6.70 (NA) 9	13 2,256.50 2,081.60 883 213	2 69.00 69.00 15 10
2011 Number of parks	25	4	5	1	13	2
Total acres Developed acres Number of tenants 3/ Number of owners 4/	4,753.38 2,917.68 733 438	1,864.00 609.00 216 111	701.30 251.30 20 145	16.50 6.70 (NA) 9	2,102.58 1,981.68 482 163	69.00 69.00 15 10
2012						
Number of parks Total acres Developed acres Number of tenants 3/ Number of owners 5/	25 4,748.88 2,927.38 721 377	4 1,864.00 614.00 212 111	5 701.30 251.30 20 90	1 16.50 (NA) (NA) (NA)	13 2,098.08 1,993.08 474 166	2 69.00 69.00 15 10
2013 6/						
Number of parks Total acres Developed acres Number of tenants 7/ Number of owners 5/	25 4,907.20 3,021.70 691 408	4 1,864.00 614.00 212 111	5 701.30 251.30 20 90	1 16.50 (NA) (NA) (NA)	13 2,256.40 2,087.40 444 197	2 69.00 69.00 15 10

[The 2014-2015 Book of Lists does not include Industrial & Technology Parks]

NA Not available.

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

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

3/ Data on number of tenants not available for 9 parks: 4 on Maui, 1 on Molokai, 3 on Oahu and 1 on Kauai.

4/ Data on number of owners not available for 7 parks: 2 on Maui, 4 on Oahu and 1 on Kauai.

5/ Data on number of owners not available for 9 parks: 3 on Maui, 1 on Molokai, 4 on Oahu and 1 on Kauai.

6/ Data revised from original list published in Vol. 51, No. 33 (October 11, 2013), p. 18.

7/ Data on number of tenants not available for 10 parks: 4 on Maui, 1 on Mokokai, 4 on Oahu and 1 on Kauai. Source: *Pacific Business News*, Vol. 47, No. 46 (January 8, 2010), p. 15; Vol. 48, No. 47 (January 14, 2011),

p. 16; Vol. 50, No. 32 (October 5, 2012), p. 18; Vol. 51, No. 33 (October 11, 2013), p. 18; and *Book of Lists* (2014) Vol. 51, No. 43 (December 20, 2013), p. 76.

Table 22.09-- PINEAPPLE COMPANIES AND CANNERIES, AND SUGAR COMPANIES AND MILLS, 1955 TO 2017; AND BY ISLAND: 2017

		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	16	17	
1980	3	3	15	14	
1985	3	2	14	12	
1990	4	2	12	12	
1995	3	1	8	10	
2000	3	1	3	4	
2005	3	1	2	2	
2006	3	1	2	2	
2007	2	-	2	2	
2008	2	-	2	2	
2009	2	-	1	1	
2010	2/2	-	1	1	
2011	2/2	-	1	1	
2012	2/2	-	1	1	
2013	2/2	-	1	1	
2014	2/2	-	1	1	
2015	2/2	-	1	1	
2016	2/2	-	3/1	3/1	
2017	2/2	-	-	-	
ISLAND: 2017					
Hawaii	-	-	-	-	
Maui	2/1	-	-	-	
Oahu	2/1	-	-	-	
Kauai	-	-	-	-	

1/ In operation; excludes cooperatives.

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

3/ Hawaiian Commercial & Sugar Company closed its sugar operation at the end of 2016.

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

Table 22.10-- SUGAR AND MOLASSES PRODUCTION: 1991 TO 2016

	Cane land (acres)			Sugar p (short		
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	41,762	20,385	1,492,357	206,008	192,535	62,231
2008	39,663	20,426	1,422,296	185,171	173,061	62,278
2009	39,812	20,244	2/ 973,876	176,208	164,684	2/ 40,631
2010	34,693	15,488	1,195,345	171,949	160,704	50,161
2011	35,532	15,063	1,286,373	182,582	169,801	51,106
2012	36,746	15,867	1,259,453	178,549	166,872	49,300
2013	35,556	15,443	1,351,087	191,351	178,837	53,365
2014	35,556	14,193	1,261,235	161,525	172,828	51,615
2015	35,556	12,907	1,146,996	137,556	137,556	45,605
2016 3/	17,500	15,485	1,334,442	157,391	157,391	56,599

 $1/\,$ 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.

3/ Hawaiian Commercial & Sugar Company ended its sugar operation at the end of 2016.

Source: Hawaiian Sugar Planters' Association, Hawaiian Sugar Manual (annual), and records;

Hawaii Agriculture Research Center, records; and Hawaiian Commercial & Sugar Company, records.