

Manufactures

This section presents statistics on the manufacturing segment of the economy.

The number of manufacturing establishments in Hawaii increased from 222 in 1899 to 474 in 1939 and 699 in 1967, and the value added by manufacture rose from \$11 million to \$58 million to \$327 million during the same period. Over 77 percent of all manufacturing activity in the State was on Oahu in 1967.

Food processing—mostly sugar and pineapple—accounted for 57 percent of the value added by manufacture in that year. Growth has been most rapid, however, in manufacturing outside of the sugar and pineapple industries. Between 1959 and 1969, the general excise and use tax base increased 73 percent for sugar processing, 18 percent for pineapple canning, and 116 percent for all other manufacturing.

Sources for data on this subject include the United States Census of Manufactures, most recently taken as of 1967, publications of the Hawaii State Department of Labor and Industrial Relations and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Statistics for the nation as a whole appear in Section 28 of the *Statistical Abstract of the United States: 1969*.

Table 126. -- MANUFACTURING: 1899 TO 1967

Year ¹	Establishments		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)
	Total	With 20 employees or more	Total	Payroll (\$1,000)	Total	Man- hours (1,000)	Wages (\$1,000)		
1967....	699	215	25,400	139,600	19,000	35,900	86,900	326,800	26,000
1963....	672	203	25,144	109,007	18,722	33,210	67,471	261,147	15,375
1958....	618	179	23,896	82,249	17,823	31,930	51,802	164,861	17,181
1954....	520	137	24,381	77,130	19,524	36,114	50,806	140,275	11,693
1939....	474	(NA)	19,518	15,319	17,002	(NA)	11,458	58,354	(NA)
1919....	496	(NA)	11,744	8,666	9,969	(NA)	6,637	51,917	(NA)
1909....	500	(NA)	7,572	2,795	5,904	(NA)	2,109	21,586	(NA)
1899....	222	(NA)	4,418	2,038	3,655	(NA)	1,473	11,103	(NA)

NA Not available.

1. Data are only approximately comparable from year to year; see sources for discussion.

Source: U. S. Bureau of the Census, Census of Manufactures, 1963. Area Statistics: Hawaii, MC63(3)-12, table 2, and 1967 Census of Manufactures, Preliminary Report, Area Series: Hawaii, MC67(P)-S12, table 1.

Table 127. -- MANUFACTURING, BY INDUSTRY AND COUNTY: 1967

County and industry	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Capital expenditures, new (million dollars)
	Total	With 20 employees or more	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (million)	Wages (million dollars)		
The State	699	215	25.4	139.6	19.0	35.9	86.9	326.8	26.0
Counties:									
Hawaii	72	22	1.9	11.6	1.5	3.1	8.2	34.9	4.2
Honolulu	548	170	19.5	107.5	14.4	26.9	64.3	252.2	18.0
Kauai	28	11	1.3	6.7	1.0	2.0	4.7	20.8	1.5
Maui	51	12	2.7	13.7	2.1	3.9	9.7	18.9	2.2
Industries:									
Food, kindred products	217	79	14.2	71.5	11.1	21.0	47.3	186.0	17.8
Lumber, wood products	38	7	0.6	3.1	0.5	1.0	2.3	5.3	0.5
Printing, publishing	82	20	2.0	13.0	1.2	2.1	7.4	27.0	1.3
Stone, clay, glass product ..	43	14	1.1	8.3	0.8	1.6	5.4	18.4	1.8
Machinery, exc. electrical ..	27	7	0.5	2.9	0.4	0.8	2.3	5.5	0.3
Other industries	274	81	6.0	31.1	5.0	9.4	22.2	84.6	4.3
Administrative, auxiliary	18	7	1.0	9.7	--	--	--	--	--

Source: U. S. Bureau of the Census, 1967 Census of Manufactures. Preliminary Report Area Series: Hawaii, MC67(P)-S12, tables 2 and 3.

Table 128. -- GENERAL EXCISE AND USE TAX BASE FOR SUGAR PROCESSING,
PINEAPPLE CANNING, AND MANUFACTURING: 1958 TO 1969

Year	Sugar processing (\$1,000)	Pineapple canning (\$1,000)	Manufacturing (\$1,000)
1958	67,358	107,300	103,867
1959	113,865	93,957	129,123
1960	99,079	96,939	145,739
1961	118,398	93,777	163,514
1962	135,328	99,143	158,157
1963	146,761	99,353	170,501
1964	148,103	109,803	178,830
1965	152,701	123,761	183,741
1966	172,909	105,747	205,463
1967	171,155	131,695	218,272
1968	184,663	114,554	234,071
1969	196,744	116,466	279,482

Source: Hawaii State Department of Taxation, annual releases.

Table 129. -- PINEAPPLE PRODUCTION: 1903 TO 1968-1969

Year ¹	Number of actual cases			Concentrated juice (equivalent 6/10 cases)
	Total	Fruit	Juice, except concentrated	
1903	1,893	1,893	--	--
1910	464,968	464,968	--	--
1920	5,986,986	5,986,986	--	--
1930	12,672,296	12,672,296	--	--
1940-1941	21,755,716	10,947,414	10,808,302	--
1950-1951	27,451,562	15,097,960	12,353,602	--
1960-1961	30,035,864	18,461,912	11,573,952	723,619
1966-1967	30,327,598	19,004,793	11,322,805	1,211,166
1967-1968	28,035,755	17,241,338	10,794,417	679,735
1968-1969	28,659,533	17,729,546	10,929,987	1,011,512

1. Calendar years to 1930, thereafter for fiscal or pack years ended May 31.

Source: Pineapple Growers Association of Hawaii, Pineapple Fact Book Hawaii 1969, p. 18, and records.

Table 130. -- SUGAR PRODUCTION: 1837 TO 1969

Year	Short tons, 96° raw value	Year	Short tons, 96° raw value	Year	Short tons, 96° raw value
1837	2	1890	129,899	1950	960,961
1840	180	1900	289,544	1960	935,744
1850	375	1910 ¹	517,090	1966	1,234,121
1860	572	1920 ¹	555,727	1967	1,191,042
1870	9,392	1930 ¹	912,357	1968	1,232,182
1880	31,792	1940	976,677	1969	1,182,414

1. Crop years.

Source: U. S. Bureau of Labor Statistics, Labor in the Territory of Hawaii, 1939 (1940), p. 12, and Hawaiian Sugar Planters' Association, Facts About Sugar (May 1961), p. 3, and records.