

## Section 22

# MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 672 in 1963 to 773 in 1972 and 946 in 1977. The value added by manufacture rose from \$326 million in 1967 to \$410 million in 1972, \$791 million in 1977, and \$783 million in 1978. Three-fourths of all manufacturing activity in the State in 1977 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for more than 44 percent of the value added by manufacture in that year. Between 1970 and 1980, the general excise and use tax base increased 201 percent for sugar processing, 71 percent for pineapple canning, and 119 percent for all other manufacturing. There were three pineapple canneries and 15 sugar mills in Hawaii in mid-1980, in each case about half as many as a dozen years earlier. The production of canned pineapple fruit and juices in 1980 amounted to 19 million actual cases, well below the levels of earlier years. Sugar production in 1980 amounted to 1.02 million short tons, about the same level as in other recent years. The value of sugar production (including commercial molasses) was \$594 million, well below the record set in 1974 but still the second best year in Island history. Important manufactures other than food processing include apparel (\$45.9 million in value added in 1978), printing and publishing (\$97.9 million), and transportation equipment (\$28.4 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1977, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1980.

Table 504.--MANUFACTURES: 1963 TO 1978

Year	All employees		Production workers		
	Number (1,000)	Payroll (millions of dollars)	Number (1,000)	Hours (millions)	Wages (millions of dollars)
1963 ..	25.1	109.0	18.7	33.2	67.5
1964 ..	25.0	113.7	18.3	33.1	69.4
1965 ..	25.4	118.1	18.7	34.0	73.5
1966 ..	24.8	123.8	18.7	34.3	78.2
1967 ..	25.4	139.6	19.0	35.9	86.9
1968 ..	23.2	134.0	17.4	32.2	83.3
1969 ..	23.9	145.3	17.9	33.2	90.8
1970 ..	24.8	168.7	18.1	35.3	102.8
1971 ..	24.4	176.6	17.5	34.3	105.7
1972 ..	24.8	191.1	17.7	33.1	113.7
1973 ..	24.3	195.5	17.5	31.9	117.9
1974 ..	22.5	210.4	15.8	28.8	116.6
1975 ..	23.7	236.7	16.9	30.6	133.0
1976 ..	24.2	266.4	17.1	30.8	153.9
1977 ..	25.0	276.8	17.4	31.3	160.5
1978 ..	23.7	285.2	17.4	30.9	173.0
Year	Number of establish- ments	Value added by manufacture (millions of dollars)	Cost of materials <sup>1/</sup> (millions of dollars)	Value of shipments <sup>1/</sup> (millions of dollars)	New capital expenditures (millions of dollars)
1963 ..	672	261.1	(NA)	(NA)	15.4
1964 ..	(NA)	263.8	372.0	638.4	17.7
1965 ..	(NA)	292.1	365.9	655.5	17.2
1966 ..	(NA)	310.8	371.5	680.9	24.1
1967 ..	697	326.2	399.6	723.4	26.0
1968 ..	(NA)	353.9	381.9	737.1	15.6
1969 ..	(NA)	351.0	408.3	758.1	19.8
1970 ..	(NA)	408.6	451.1	856.9	40.5
1971 ..	(NA)	435.0	465.9	899.9	28.0
1972 ..	773	410.0	548.3	955.6	46.7
1973 ..	(NA)	496.1	592.9	1,086.4	36.6
1974 ..	(NA)	913.8	952.9	1,848.2	50.2
1975 ..	(NA)	685.4	1,116.2	1,800.3	51.5
1976 ..	(NA)	700.3	1,156.8	1,854.8	55.6
1977 ..	949	785.5	1,176.1	1,974.0	44.4
1978 ..	(NA)	782.9	1,284.8	2,063.1	46.0

NA Not available.

<sup>1/</sup> Aggregate cost of materials and value of shipments figures for manufacturing industries include extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12, October 1980, and advance data from 1978 Annual Survey of Manufactures, M78(AS)-6.

Table 505.-- MANUFACTURES, BY GEOGRAPHIC AREAS: 1977

Geographic area	All establishments <u>1/</u>		All employees <u>1/</u>		Value added by manufacture (million dollars)	Value of shipments <u>2/</u> (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)		
State total .	949	231	25.0	276.8	785.5	1,974.0
COUNTIES						
Honolulu .....	759	191	19.6	215.2	585.8	1,581.5
Others .....	190	40	5.4	61.6	199.7	392.5
Hawaii .....	99	16	2.4	30.4	83.1	157.7
Kauai .....	26	6	0.7	8.2	25.4	70.3
Maui .....	64	18	2.3	22.9	91.1	164.4
URBAN PLACES <u>3/</u>						
Hilo .....	61	8	0.7	8.9	13.7	32.4
Honolulu .....	657	159	17.1	183.9	416.8	1,106.4
Kahului .....	17	6	(D)	(D)	(D)	(D)
Wailuku .....	23	6	0.5	4.8	8.8	17.3
Waipahu .....	13	5	0.7	7.0	7.9	33.2

(D) Withheld to avoid disclosing operations of individual companies.

1/ Including central administrative offices and auxiliaries.

2/ Aggregate value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

3/ With 450 manufacturing employees or more.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), p. 12-4.

Table 506.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1977

SIC code	Industry	All establishments		All employees		Production workers	
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)
	All industries .....	949	231	25.0	276.8	17.4	31.3
20	Food and kindred products .....	220	63	10.9	112.9	8.1	14.9
202	Dairy products .....	11	5	0.5	7.5	0.2	0.4
203	Preserved fruits and vegetables .	38	6	3.6	28.0	3.2	5.4
205	Bakery products .....	24	7	0.8	9.8	0.4	0.8
206	Sugar and confectionery products	34	20	3.8	44.4	2.8	5.8
208	Beverages .....	17	6	0.5	7.1	0.2	0.4
23	Apparel and other textile products	157	55	3.8	25.1	3.2	5.3
24	Lumber and wood products .....	43	8	0.4	5.0	0.3	0.6
25	Furniture and fixtures .....	30	6	(D)	(D)	(D)	(D)
26	Paper and allied products .....	13	5	(D)	(D)	(D)	(D)
27	Printing and publishing .....	157	27	2.5	34.9	1.3	2.1
28	Chemicals and allied products .....	22	5	0.4	4.8	0.2	0.4
29	Petroleum and coal products .....	3	2	(D)	(D)	(D)	(D)
30	Rubber and plastics products .....	12	4	0.2	1.5	0.2	0.3
32	Stone, clay, glass products .....	53	16	(D)	(D)	(D)	(D)
34	Fabricated metal products .....	36	9	0.8	10.8	0.7	1.3
35	Machinery, exc. electrical .....	38	3	0.3	3.3	0.2	0.4
37	Transportation equipment .....	21	4	0.6	10.8	0.5	1.0
39	Misc. manufacturing industries .....	83	11	(D)	(D)	(D)	(D)
-	Admin. and auxiliary .....	24	9	1.4	22.9	-	-

Continued on next page.

Table 506.-- MANUFACTURES BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1977 - Con.

SIC code	Industry	Production workers - con.	Value added by manufacture	Cost of materials <sup>1/</sup>	Value of shipments <sup>1/</sup>	New capital expenditures <sup>1/</sup>
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
	All industries .....	160.5	785.5	1,176.1	1,974.0	44.4
20	Food and kindred products .....	73.2	350.5	450.6	800.7	25.9
202	Dairy products .....	3.0	20.3	41.1	61.4	1.2
203	Preserved fruits and vegetables .	22.3	91.7	96.5	188.1	1.5
205	Bakery products .....	5.0	20.6	13.3	33.8	0.6
206	Sugar and confectionery products	31.1	159.8	165.4	325.2	18.3
208	Beverages .....	2.4	21.1	30.6	51.4	2.1
23	Apparel and other textile products.	16.7	44.9	33.5	78.0	0.6
24	Lumber and wood products .....	3.6	9.9	9.9	20.0	0.5
25	Furniture and fixtures .....	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products .....	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing .....	16.8	94.5	29.9	124.3	1.6
28	Chemicals and allied products .....	2.2	17.2	30.8	48.5	1.3
29	Petroleum and coal products .....	(D)	(D)	(D)	(D)	(D)
30	Rubber and plastic products .....	1.1	2.7	3.8	6.5	0.3
32	Stone, clay, glass products .....	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products .....	8.2	22.8	52.9	77.0	3.4
35	Machinery, exc. electrical .....	2.2	5.8	3.4	9.0	0.5
37	Transportation equipment .....	9.3	17.0	13.3	30.2	(D)
39	Misc. manufacturing industries ....	(D)	(D)	(D)	(D)	(D)
-	Admin. and auxiliary .....	-	-	-	-	-

(D) Withheld to avoid disclosing operations of individual companies.

<sup>1/</sup> Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), table 5.

Table 507.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1978

SIC code	Industry	All employees		Production workers		
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)
	All industries .....	23.7	285.2	17.4	30.9	173.0
20	Food and kindred products .	10.8	120.7	8.3	14.9	78.5
2033	Canned fruits and veg. ..	3.5	28.9	3.1	5.1	23.3
206	Sugar, confect. products	3.7	46.9	2.8	6.0	33.2
2061	Raw cane sugar .....	3.2	41.6	2.3	5.2	29.8
23	Apparel, textile products .	3.3	24.4	2.9	5.2	18.4
27	Printing and publishing ...	2.5	37.1	1.3	2.3	18.8
28	Chemicals, allied products	.4	5.2	.2	.3	2.1
34	Fabricated metal products .	.4	5.8	.2	.6	3.7
35	Machinery, except electric	.3	2.7	.2	.6	1.8
37	Transportation equipment ..	.7	13.3	.7	.6	11.1
--	Administrative, auxiliary .	.6	16.2	-	-	

  

SIC code	Industry	Value added by manu- factory (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			All industries .....	782.9	1,284.8	2,063.1
20	Food and kindred products .	371.2	495.3	865.3	27.7	77.8
2033	Canned fruits and veg. ..	81.3	101.6	182.9	2.9	34.4
206	Sugar, confect. products	176.7	181.0	357.8	17.8	21.4
2061	Raw cane sugar .....	129.6	155.1	284.7	17.1	12.1
23	Apparel, textile products .	45.9	33.1	78.8	.7	13.8
27	Printing and publishing ...	97.9	37.8	135.1	2.4	6.5
28	Chemicals, allied products	21.7	32.8	52.0	1.6	10.1
34	Fabricated metal products .	(Z)	40.3	41.1	.3	10.9
35	Machinery, except electric	3.6	3.4	6.6	.7	1.6
37	Transportation equipment ..	28.4	20.7	49.0	(D)	2.0
--	Administrative, auxiliary .	-	-	-	-	-

(D) Withheld to avoid disclosing information for individual companies.

Source: U.S. Bureau of the Census, advance data from 1978 Annual Survey of Manufactures area report M78(AS)-6, supplied July 20, 1981.

Table 508.-- MANUFACTURES: 1972 AND 1977

Item	Unit of measure	1977	1972
All establishments <u>1/</u> .....	number .....	949	770
With 1 to 19 employees .....	do .....	718	534
With 20 to 99 employees .....	do .....	182	190
With 100 employees or more .....	do .....	49	46
All employees, average for year <u>1/</u> .....	1,000 .....	25.0	24.8
Payroll for year, all employees <u>1/</u> .....	mil. dollars	276.8	191.1
Production workers:			
Average for year .....	1,000 .....	17.4	17.7
March .....	do .....	15.8	15.8
May .....	do .....	17.1	18.2
August .....	do .....	20.7	22.0
November .....	do .....	15.8	14.8
Hours .....	millions ...	31.3	33.1
January to March .....	do .....	7.0	7.1
April to June .....	do .....	8.1	9.1
July to September .....	do .....	9.3	9.9
October to December .....	do .....	6.9	7.0
Wages .....	mil. dollars	160.5	113.7
Cost of materials, etc. <u>2/</u> .....	do .....	1,176.1	548.3
Materials, parts, containers, etc., consumed	do .....	1,023.6	485.9
Resales .....	do .....	88.6	42.7
Fuels consumed .....	do .....	17.6	6.4
Purchased electric energy .....	do .....	15.2	6.0
Contract work .....	do .....	31.0	7.3
Value of shipments, including resales <u>2/</u> .....	do .....	1,974.0	955.6
Value of resales .....	do .....	114.0	51.1
Value added by manufacture .....	do .....	785.5	410.0
Manufacturers' inventories:			
Beginning of year .....	do .....	205.2	106.0
Finished products .....	do .....	81.2	43.6
Work in process .....	do .....	31.0	12.4
Materials, supplies, fuel, etc. ....	do .....	93.0	50.1
End of year .....	do .....	189.1	104.7
Finished products .....	do .....	78.7	43.9
Work in process .....	do .....	25.9	14.0
Materials, supplies, fuel, etc. ....	do .....	84.5	46.8

Continued on next page.

Table 508.-- MANUFACTURES: 1972 AND 1977 -- Con.

Item	Unit of measure	1977	1972
Capital expenditures for plant and equipment .	mil. dollars	48.0	49.7
New capital expenditures .....	do .....	44.4	46.7
New buildings and other structures .....	do .....	9.3	19.8
New machinery and equipment .....	do .....	35.1	26.9
Used capital expenditures .....	do .....	3.6	3.0

1/ Including central administrative offices and auxiliaries.

2/ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), table 3a.



Table 509.-- DEPRECIABLE ASSETS AND SELECTED COSTS OF MANUFACTURES:  
1977

Item	Amount <sup>1/</sup> (million dollars)
Gross value of depreciable assets:	
Total:	
Beginning of year .....	699.0
New capital expenditures .....	54.6
Used capital expenditures .....	(4.8)
Retirements .....	14.3
End of year .....	744.1
Buildings and other structures:	
Beginning of year .....	235.7
New capital expenditures .....	(9.8)
Used capital expenditures .....	(.8)
Retirements .....	3.1
End of year .....	243.2
Machinery and equipment:	
Beginning of year .....	463.3
New capital expenditures .....	(44.9)
Automobiles, trucks, etc., for highway use .....	2.6
Computers and peripheral data processing equip. ..	5.1
All other .....	33.1
New machinery and equipment, n.s.k. ....	4.1
Used capital expenditures .....	(4.0)
Retirements .....	11.2
End of year .....	501.0
Rental payments:	
Total .....	(20.7)
Buildings and other structures .....	(8.3)
Machinery and equipment .....	(12.4)
Depreciation charges during 1977:	
Total .....	39.5
Buildings and other structures .....	9.5
Machinery and equipment .....	30.0
Supplemental labor costs:	
Total .....	49.6
Legal costs .....	23.6
Voluntary costs .....	26.0

Continued on next page.

Table 509.-- DEPRECIABLE ASSETS AND SELECTED COSTS OF MANUFACTURES:  
1977 -- Con.

Item	Amount <sup>1/</sup> (million dollars)
Purchased services:	
Cost of purchased services for the repair of--	
Buildings and other structures .....	(.9)
Response coverage ratio (percent) .....	60
Machinery .....	(5.4)
Response coverage ratio (percent) .....	59
Cost of purchased communication services .....	(1.0)
Response coverage ratio (percent) .....	62

n.s.k. Not specified by kind.

<sup>1/</sup> Figures in parentheses have standard errors of 15 percent or more.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), table 3b.

Table 510.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1980

Island	Number of industrial parks and areas	Acres	
		Total	Developed
State total	35	3,218.9	3,065.7
Hawaii .....	6	633.3	633.3
Maui .....	5	193.5	169.7
Lanai .....	-	-	-
Molokai .....	-	-	-
Oahu .....	21	2,330.1	2,242.7
Kauai .....	3	62.0	20.0
Niihau .....	-	-	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1980.

Table 511.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING,  
PINEAPPLE CANNING, AND MANUFACTURING: 1970 TO 1980

[In thousands of dollars.]

Year reported <u>1/</u>	Total	Sugar processing	Pineapple canning	Manufacturing <u>2/</u>
1970 .....	575,222	175,337	114,634	285,251
1971 .....	599,686	190,209	124,548	284,929
1972 .....	638,059	205,962	124,265	307,833
1973 .....	692,715	213,095	123,597	356,023
1974 .....	934,613	454,660	103,686	376,268
1975 .....	1,166,923	605,521	131,655	429,748
1976 .....	783,751	275,078	95,488	413,186
1977 <u>3/</u> ...	862,412	284,000	111,942	466,470
1978 <u>3/</u> ...	917,163	291,000	131,665	494,498
1979 .....	1,035,159	305,738	164,200	565,221
1980 .....	1,349,360	527,379	195,977	626,004

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 June 30.

2/ Excludes sugar processing, pineapple canning, and petroleum refining.

3/ Partly estimated.

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

Table 512.-- PINEAPPLE CANNERIES, BY ISLANDS: 1970 TO 1980

[As of the end of the canning season.]

Year	State total	Maui	Oahu	Kauai
1970 .....	4	1	2	1
1971 .....	4	1	2	1
1972 .....	4	1	2	1
1973 .....	3	1	2	-
1974 .....	3	1	2	-
1975 .....	3	1	2	-
1976 .....	3	1	2	-
1977 .....	3	1	2	-
1978 .....	3	1	2	-
1979 .....	3	1	2	-
1980 .....	3	1	2	-

Source: The Pineapple Growers Association of Hawaii, records; First Hawaiian Bank, Research Division, records.

Table 513.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1970 TO 1980

[Includes field and cannery employment and earnings.]

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equivalent employee (dollars)
1970 ...	7,779	52,580,858	6,759
1971 ...	7,403	51,194,731	6,915
1972 ...	7,110	48,376,978	6,804
1973 ...	5,759	42,613,741	7,400
1974 ...	4,894	37,764,230	7,716
1975 ...	4,915	42,137,633	8,573
1976 ...	4,657	44,918,405	9,645
1977 ...	4,924	52,413,689	10,645
1978 ...	4,953	55,397,760	11,185
1979 ...	4,979	61,751,124	12,402
1980 ...	4,861	66,737,788	13,729

Source: Hawaii Employers Council, unpublished estimates.

Table 514.-- HAWAIIAN PINEAPPLE PRODUCTION: 1970-71 TO 1980

[Hawaiian pack only; excludes overseas production by Hawaiian companies.]

Year <u>1/</u>	Canned fruit		Canned juice		Frozen concentrate	
	1,000 actual cases	1,000 standard cases <u>2/</u>	1,000 actual cases	1,000 standard cases <u>3/</u>	1,000 equivalent 6/10 cases	1,000 standard cases <u>3/</u>
1970-1971 ..	17,718	12,028	10,590	8,100	1,016	929
1971-1972 ..	17,961	12,537	11,004	8,400	789	722
1972-1973 ..	15,891	11,108	9,282	7,400	633	580
1973-1974 ..	14,042	9,550	8,470	6,600	886	810
1974-1975 ..	11,584	8,110	5,643	4,400	438	400
1975-1976 ..	12,142	8,200	6,173	4,800	471	520
1976-1977 ..	12,160	8,270	7,295	5,600	346	320
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979 .....	10,930	7,470	7,699	6,010	308	280
1980 .....	9,918	6,940	8,114	6,410	237	215

1/ Pack year ended May 31 through 1978-1979 and calendar years 1979 and 1980.

2/ 24 #2 1/2 can, 45-lb. cases.

3/ 24 #2 1/2 can, 42 1/2-lb. cases.

Source: The Pineapple Growers Association of Hawaii, Pineapple Fact Book/Hawaii 1973 (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual), and records.

Table 515.-- SUGAR COMPANIES AND MILLS, BY ISLANDS: 1970 TO 1980

[As of December 31.]

Year	State total	Hawaii	Maui	Oahu	Kauai
<b>Companies: <u>1/</u></b>					
1970 .....	23	10	3	3	7
1971 .....	23	10	3	3	7
1972 .....	21	10	3	2	6
1973 .....	19	8	3	2	6
1974 .....	17	7	3	2	5
1975 .....	16	6	3	2	5
1976 <u>2/</u> .....	16	6	3	2	5
1977 <u>2/</u> .....	16	6	3	2	5
1978 <u>2/</u> .....	15	5	3	2	5
1979 <u>2/</u> .....	15	5	3	2	5
1980 <u>2/</u> .....	15	5	3	2	5
<b>Mills:</b>					
1970 .....	26	12	4	4	6
1971 .....	26	12	4	4	6
1972 .....	23	12	4	2	5
1973 .....	21	10	4	2	5
1974 .....	20	9	4	2	5
1975 .....	17	7	4	2	4
1976 .....	17	7	4	2	4
1977 .....	16	6	4	2	4
1978 .....	14	5	3	2	4
1979 .....	14	5	3	2	4
1980 .....	14	5	3	2	4

1/ Does not include United Cane Planters' Cooperative (in Hawaii County) which consists of small, independent growers.

2/ Revised from 1980 edition, table 450.

Source: Hawaiian Sugar Planters' Association, records.

Table 516.-- SUGAR AND MOLASSES PRODUCTION: 1970 TO 1980

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area		96° raw value	Equivalent refined	
1970 ...	238,997	113,816	10,457,377	1,162,071	1,086,000	322,480
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,831
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1981, pp. 10-11.

Table 517.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT  
AND EARNINGS: 1970 TO 1980

Year	Average raw sugar price <u>1/</u> (cents per lb.)	Hourly-rated employees		Industry wide strikes (weeks)	Average daily earnings <u>2/</u> (dollars)	
		Average number <u>3/</u>	Total man-days		Wages	Employee benefits
1970 ...	8.08	8,908	2,139,183	-	24.24	10.00
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised.



Table 518.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1970 TO 1980

[Calendar year data unless otherwise specified.]

Year	Pineapple (\$1,000,000)		Sugar (\$1,000)		
	Canned fruit and juices <u>1/</u>	Fresh market sales <u>2/</u>	Value of production <u>3/</u>		Government payments
			Raw sugar 96 <sup>o</sup>	Commercial molasses	
1970 ..	135.0	3.6	180,680	7,061	10,261
1971 ..	137.7	3.7	196,253	6,669	10,722
1972 ..	140.5	4.9	176,550	8,052	9,667
1973 ..	135.0	7.4	203,788	18,370	9,510
1974 ..	118.2	8.9	659,227	17,390	8,646
1975 ..	126.6	10.1	354,600	11,500	-
1976 ..	130.0	14.5	245,500	11,500	-
1977 ..	140.0	21.6	219,100	7,700	48,700
1978 ..	133.4	29.4	269,500	15,700	8,100
1979 ..	176.3	30.1	322,200	23,500	-
1980 ..	189.1	34.3	566,400	27,700	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

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

3/ Beginning with 1972, point of delivery changed from refinery to mill.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.