

MANUFACTURING

Manufacturing in Hawaii has traditionally been dominated by sugar processing and pineapple canning. This has given rise to the Hawaiian practice of reporting sugar processing and pineapple canning as separate industries and grouping all other manufacturing together as "diversified" manufacturing.

Although pineapple and sugar processing are still extremely important, representing a great portion of Hawaiian manufacturing, there have been many additions to general manufacturing in the past decade. A petroleum refinery, two cement plants, a rolling mill for reinforcing rods, and a concrete pipe plant are among the newcomers.

In light manufacturing there are nearly 70 garment manufacturers, textile printing plants, plastics processors, furniture manufacturers and printing plants. There are many processors of food products, including Hawaiian and oriental food specialties, guava and passion fruit juice and macadamia nuts.

Primary sources of information on manufacturing in Hawaii include the Department of Planning and Economic Development; Hawaii Manufacturers Association; the Census of Manufacturers, published every five years with annual sample-based reports, by the U. S. Department of Commerce; and ES 202 reports of employment and employer contributions to employment security computed quarterly by the Department of Labor and Industrial Relations. The latter are published on a two- and three-digit basis quarterly and on a four-digit basis for one quarter each year. Employment data for manufacturing are given in the Labor and Wages section of the Data Book.

Table 70 -- MANUFACTURING IN HAWAII, SELECTED YEARS: 1958 TO 1963

| Year | Number of establishments | Number of employees ¹ | Payroll (\$1,000) ¹ | Value added by manufacture (\$1,000) | Capital expenditures new (\$1,000) |
|----------|--------------------------|----------------------------------|--------------------------------|--------------------------------------|------------------------------------|
| 1958 ... | 609 | 23,896 | 82,249 | 164,861 | 17,181 |
| 1959 ... | NA | 25,962 | 93,106 | 197,104 | D |
| 1960 ... | NA | 23,456 | 89,391 | 183,244 | 60,595 |
| 1961 ... | NA | 23,238 | 93,375 | 204,491 | 31,547 |
| 1962 ... | NA | 22,645 | 94,028 | 198,982 | 14,215 |
| 1963 ... | 657 | 24,960 | 106,808 | 254,454 | 16,132 |

D- Data withheld to avoid disclosure.

1. Total employment and total payroll.

Source: U. S. Department of Commerce, Bureau of the Census, Census of Manufacturers, 1963 MC63 (P) S12 .

Table 71 -- MANUFACTURING IN HAWAII, BY INDUSTRY CLASSIFICATION: 1965

| | Sic Code | Number of employing units ¹ | Number of employers ¹ | Annual wages ² (thousands) |
|-----------------------|----------|--|----------------------------------|---------------------------------------|
| Manufacturing... | - | 605 | 24,700 | \$125,498 |
| Food products | 20 | 220 | 15,504 | 76,109 |
| Textiles..... | 22 | 8 | 32 | 106 |
| Apparel | 23 | 68 | 2,261 | 8,181 |
| Lumber..... | 24 | 37 | 548 | 2,776 |
| Furniture | 25 | 42 | 522 | 2,369 |
| Paper | 26 | 7 | 160 | 814 |
| Printing..... | 27 | 76 | 2,322 | 13,147 |
| Chemicals..... | 28 | 20 | 473 | 2,985 |
| Petroleum | 29 | 1 | 213 | D |
| Rubber & plastics .. | 30 | 4 | 13 | 59 |
| Leather products ... | 31 | 12 | 118 | 465 |
| Stone, clay & glass. | 32 | 27 | 1,293 | 9,972 |
| Metals, primary.... | 33 | 3 | 164 | D |
| Metal products..... | 34 | 22 | 545 | 3,094 |
| Machinery | 35 | 11 | 115 | 668 |
| Electrical equip | 36 | 2 | 7 | D |
| Transportation equip | 37 | 9 | 103 | 783 |
| Instruments | 38 | 7 | 49 | 250 |
| Miscellaneous..... | 39 | 29 | 206 | 755 |

D- Data withheld to prevent disclosure.

1. Average of 12 months.

2. Total of quarterly wages reported.

Source: Department of Labor and Industrial Relations, ES 202 Report of Employment, Wages and Contributions, quarterly reports for 1965.

Table 72 -- VALUE OF MANUFACTURING IN HAWAII, FROM TAX BASE DATA: 1958 TO 1965 (in millions of dollars)

| Year | Receipts from sales of manufacture ¹ | | | Adjusted diversified manufacturing ² |
|------------|---|-------------------|-----------------------------|---|
| | Sugar processing | Pineapple canning | "Diversified" manufacturing | |
| 1958 | 67.4 | 107.3 | 103.9 | 119.5 |
| 1959 | 113.9 | 99.0 | 129.1 | 133.5 |
| 1960 | 99.1 | 96.9 | 145.7 | 148.7 |
| 1961 | 118.4 | 93.8 | 168.5 | 203.0 |
| 1962 | 135.3 | 99.1 | 158.2 | 240.0 |
| 1963 | 146.8 | 99.4 | 170.5 | 255.0 |
| 1964 | 148.1 | 109.8 | 178.8 | 260.0 |
| 1965 | 152.7 | 123.8 | 188.7 | 281.0 |

1. Data for sugar processing, **pineapple** canning and "diversified" manufacturing are "tax base" data reported by the Department of Taxation. "Diversified" manufacturing represents manufacturing other than sugar and pineapple.

2. Adjusted diversified manufacturing is the figure for "diversified" manufacturing plus the value of sales of petroleum and certain other manufactured goods which are reported under different tax classifications.

Source: Department of Taxation, Tax Base for Certain Taxes, Year Ending December 31 for years shown. Bank of Hawaii, Department of Business Research.

Table 73 -- MANUFACTURING IN HAWAII, BY COUNTY: 1963

| Area | Number of establishments | Number of employees ¹ | Payroll (\$1,000) | Value added by manufacture (\$1,000) | Capital expenditures new (\$1,000) |
|----------------------------|--------------------------|----------------------------------|-------------------|--------------------------------------|------------------------------------|
| State | 657 | 24,960 | 106,808 | 254,454 | 16,132 |
| City-County of Honolulu .. | 512 | 17,690 | 77,662 | 168,563 | 9,409 |
| County of Honolulu | 78 | 2,368 | 10,530 | 35,330 | 1,460 |
| County of Kauai | 23 | 1,770 | 6,611 | 18,644 | 1,313 |
| County of Maui | 44 | 3,132 | 12,005 | 31,917 | 3,950 |

1. Total employees and total payroll.

Source: U. S. Department of Commerce, Bureau of the Census, Census of Manufacturers, 1963. MC 63 (P) S12.