## 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 697 in 1967 to 773 in 1972 and 949 in 1977. The value added by manufacture rose from $\$ 326$ million in 1967 to $\$ 410$ million in $1972, \$ 786$ million in 1977, and $\$ 1,249$ million in 1980. 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 1972 and 1982, the general excise and use tax base increased 54 percent for sugar processing, 49 percent for pineapple canning, and 72 percent for all other manufacturing. There were three pineapple canneries and 15 sugar mills in Hawaii in mid-1982. The production of canned pineapple fruit and juices in 1981 amounted to 18 million actual cases, well below the levels of earlier years. Sugar production in 1982 amounted to 983,000 short tons, somewhat below the level of other recent years. The value of sugar production (including commercial molasses) was $\$ 352$ million, compared with the record of $\$ 677$ million set in 1974. Important manufactures other than food processing include apparel ( $\$ 37 \mathrm{million}$ in value added in 1980), printing and publishing ( $\$ 134$ million), and chemicals and allied products ( $\$ 35 \mathrm{million}$ ).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted (but not yet published) for 1982, 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: 1982-83.

Table 564.--MANUFACTURES: 1971 TO 1981

| Year | All employees |  | Production workers |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Number } \\ & (1,000) \end{aligned}$ | Payroll (millions of dollars) | $\begin{aligned} & \text { Number } \\ & (1,000) \end{aligned}$ | $\begin{aligned} & \text { Hours } \\ & \text { (millions) } \end{aligned}$ | Wages (millions of dollars) |
| 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 |
| 1979 . | (NA) | (NA) | (NA) | (NA) | (NA) |
| 1980 .. | 26.5 | (NA) | (NA) | (NA) | (NA) |
| 1981 | 26.4 | (NA) | (NA) | (NA) | (NA) |
| Year | Number of establishments | Value added by manufacture (millions of dollars) | ```Cost of materials 1/ (millions of dollars)``` | Value of shipments $1 /$ (millions of dollars) | New capital expenditures (millions of dollars) |
| 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 |
| 1979 . | (NA) | (NA) | (NA) | (NA) | (NA) |
| 1980 .. | (NA) | 1,249.1 | (NA) | 3,470.0 | (NA) |
| 1981 .. | (NA) | (NA) | (NA) | 3,626.3 | (NA) |

NA Not available.
1/ Aggregate cost of materials and value of shipments figures for manufäcturing industries include extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1978 Annual Survey of Manufactures, Statistics for States, Standard Metropolitan Statistical Area, Large Industrial Counties, and Selected Cities, M78(AS)-6 (September 1981), p. 101; 1981 Annual Survey of Manufactures, Origin of Exports of Manufactured Products, M81(AS)-5 (May 1983), pp. 14-17; and unpublished data supplied June T5, 1983.

Table 565.-- MANUFACTURES, BY GEOGRAPHIC AREAS: 1977

| Geographic area | All establishments 1/ |  | All employees 1/ |  | Value <br> added by manufacture (million dollars) | Value of shipments 21 (million dollars) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (number) | With 20 employees or more (number) | $\begin{aligned} & \text { Number } \\ & (1,000) \end{aligned}$ | 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 3/ |  |  |  |  |  |  |
| 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.
$\overline{2} /$ Aggregate value of shipments for industry groups (2- and 3-digit) and for $\mathrm{a} \overline{1} 1$ 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 566.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1978

| $\begin{aligned} & \text { SIC } \\ & \text { code } \end{aligned}$ | Industry | All employees |  | Production workers |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Number } \\ & (1,000) \end{aligned}$ | Payroll (million dollars) | $\begin{aligned} & \text { Number } \\ & (1,000) \end{aligned}$ | Hours (millions) | Wages (million dollars) |
| $\begin{aligned} & 20 \\ & 2033 \end{aligned}$ | All industries | 23.7 | 285.2 | 17.4 | 30.9 | 173.0 |
|  | Food and kindred products . Canned fruits and veg. .. Sugar, confect. products | 10.8 | 120.7 | 8.3 | 14.9 | 78.5 |
|  |  | 3.5 | 28.9 | 3.1 | 5.1 | 23.3 |
| 206 |  | 3.7 | 46.9 | 2.8 | 6.0 | 33.2 |
| 2061 | Raw cane sugar .........Apparel, textile products . | 3.2 | 41.6 | 2.3 | 5.2 | 29.8 |
| 23 |  | 3.3 | 24.4 | 2.9 | 5.2 | 18.4 |
| 27 |  | 2.5 | 37.1 | 1.3 | 2.3 | 18.8 |
| 28 | Printing and publishing ... 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 .. Administrative, auxiliary . | . 7 | 13.3 | . 7 | . 6 | 11.1 |
| -- |  | . 6 | 16.2 | - | - |  |
| $\begin{aligned} & \text { SIC } \\ & \text { code } \end{aligned}$ | Industry | Value added by manufacture (million dollars) | Cost of materials (million dollars) | Value of shipments (million dollars) | $\begin{array}{\|l} \text { New } \\ \text { capital } \\ \text { expendi- } \\ \text { tures } \\ \text { (million } \\ \text { dollars) } \end{array}$ | End-ofyear inventories (million dollars) |
|  | All industries ... | 782.9 | 1,284.8 | 2,063.1 | 46.0 | 183.9 |
| 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 |  | 129.6 | 155.1 | 284.7 | 17.1 | 12.1 |
| 23 | Apparel, textile products. Printing and publishing | 45.9 | 33.1 | 78.8 | . 7 | 13.8 |
| 27 |  | 97.9 | 37.8 | 135.1 | 2.4 | 6.5 |
| 28 | Printing and publishing ... Chemicals, allied products | 21.7 | 32.8 | 52.0 | 1.6 | 10.1 |
| 34 | Chemicals, allied products Fabricated metal products | (Z) | 40.3 | 41.1 | . 3 | 10.9 |
| 35 | Fabricated metal products . Machinery, except electric | 3.6 | 3.4 | 6.6 | . 7 | 1.6 |
| 37 | Transportation equipment .. Administrative, auxiliary. | 28.4 | 20.7 | 49.0 | (D) | 2.0 |
| - |  | - | - | - | - | - |

D Withheld to avoid disclosing information on individual companies.
$Z$ Less than half the unit of measurement shown.
Source: U.S. Bureau of the Census, Statistics for States, Standard Metropolitan Statistical Areas, Large Industrial Counties, and Selected Cities, 1978 Annual Survey of Manufactures, M78(AS)-6 (September 1981), p. 102.

Table 567.-- VALUE ADDED BY MANUFACTURE FOR SELECTED MAJOR INDUSTRY GROUPS: 1980
[In millions of dollars.]

| $\begin{aligned} & \text { SIC } \\ & \text { code } \end{aligned}$ | Industry | Value added |
| :---: | :---: | :---: |
|  | All industries | 1,249.1 |
| 20 | Food and kindred products .......................... | 630.2 |
| 23 | Apparel and other textile products ............... | 37.3 |
| 24 | Lumber and wood products | 12.5 |
| 27 | Printing and publishing | 134.1 |
| 28 | Chemicals and allied products .................... | 35.3 |
| 30 | Rubber and miscellaneous plastics products ...... | 1.4 |
| 34 | Fabricated metal products | 31.9 |
| 37 | Transportation equipment .......................... | 16.2 |

Source: U.S. Bureau of the Census, 1980 Annual Survey of Manufactures, unpublished data supplied June 15, 1983.

Table 568.-- 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 569.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1972 TO 1982
[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

| $\begin{aligned} & \text { Year } \\ & \text { reported 1/ } \end{aligned}$ | Total | Sugar processing | Pineapple canning | Manufacturing 2/ |
| :---: | :---: | :---: | :---: | :---: |
| 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 3/ ... | 862,412 | 284,000 | 111,942 | 466,470 |
| 1978 了 ${ }^{1}$ | 917,163 | 291,000 | 131,665 | 494,498 |
| 1979 | 1,035,159 | 305,738 | 164,200 | 565,221 |
| 1980 4/ | 1,349,149 | 527,379 | 195,766 | 626,004 |
| 1981 | 1,218,516 | 415,442 | 172,342 | 630,732 |
| 1982 | 1,033,845 | 317,880 | 185,367 | 530,598 |

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.

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

3/ Partly estimated.
4/ Revised from 1981 edition, table 511.
Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 570._- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1972 TO 1982

| Year | Pineapple I/ |  | Sugar 2/ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Companies | Canneries | Companies 3/ | Mills |
| 1972 | 4 | 4 | 21 | 23 |
| 1973 ......... | 3 | 3 | 19 | 21 |
| 1974 | 3 | 3 | 17 | 20 |
| 1975 | 3 | 3 | 16 | 17 |
| 1976 ......... | 3 | 3 | 16 | 17 |
| 1977 ......... | 3 | 3 | 16 | 16 |
| 1978 ......... | 3 | 3 | 15 | 14 |
| 1979 | 3 | 3 | 15 | 14 |
| 1980 | 3 | 3 | 15 | 14 |
| 1981 | 3 | 3 | 15 | 14 |
| 1982 | 3 | 3 | 15 | 14 |
| ISLANDS: 1982 |  |  |  |  |
| Hawaii ....... | - | - | 5 | 5 |
| Maui .......... | 1 | 1 | 3 | 3 |
| Oahu | 2 | 2 | 2 | 2 |
| Kauai ........ | - | - | 5 | 4 |

$1 /$ As of end of canning season.
$\overline{2} /$ As of December 31.
3/ Excludes United Cane Planters' Cooperative, which consists of small independent growers.

Source: The Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 571.-- HAWAIIAN PINEAPPLE PRODUCTION: 1970-71 TO 1981
[In thousands. Hawaiian pack only; excludes overseas production by Hawaiian companies. Compilation of these statistics was suspended after 1981.]

| Year 1/ | Canned fruit |  | Canned juice |  | Frozen concentrate |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Actual cases | Standard cases $2 /$ | Actual cases | Standard cases 3/ | Equivalent 6/10 cases | Standard cases 3/ |
| 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 |
| 1981 | 9,759 | 6,830 | 7,997 | 6,320 | 219 | 200 |

1/ Pack year ended May 31 through 1978-1979 and calendar years 1979, 1980 and 1981.

2/ 24 No. 2 1/2 can, 45-1b. cases.
$\overline{3} / 24$ No. $21 / 2$ can, 42 1/2-1b. 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 572.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1976 TO 1981
[Includes field and cannery employment and earnings.]

| Year | Full-time <br> equivalent <br> employment | Total wages <br> and salaries <br> (dollars) | Earnings per <br> full-time equiva- <br> lent employee <br> (dollars) |
| :---: | :---: | :---: | :---: |
| $1976 \ldots$ | 4,657 | $44,918,405$ | 9,645 |
| 1977 | $\ldots$ | 4,924 | $52,413,689$ |
| 1978 | $\ldots$ | 4,953 | $55,397,760$ |
| 1989 | $\ldots$ | 4,979 | $61,751,124$ |
| 1981 | $\ldots$ | 4,861 | $66,737,788$ |

Source: Hawaii Employers Council, unpublished estimates.

Table 573.-- SUGAR AND MOLASSES PRODUCTION: 1972 TO 1982

| Year | Cane land (acres) |  | Cane used for sugar (short tons) | Sugar produced (short tons) |  | Molasses produced (short tons) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total area | Harvested area |  | $\begin{aligned} & 960 \text { raw } \\ & \text { value } \end{aligned}$ | Equivalent refined |  |
| 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 |
| 1981 | 216,099 | 97,573 | 8,831,477 | 1,047,541 | 979,031 | 311,719 |
| 1982 | 204,750 | 89,261 | 8,807,998 | 982,913 | 918,610 | 273,780 |

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1983, pp. 4-5.

Table 574.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1972 TO 1982

| Year | Average raw sugar price 1/ (cents per 1b.) | Hourly-rated employees |  | ```Industry wide strikes (weeks)``` | Average daily earnings 2/ (dollars) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Average number 3/ | $\begin{aligned} & \text { Total } \\ & \text { man-days } \end{aligned}$ |  | Wages | Employee benefits |
| 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 |
| 1981 | 19.74 | 7,282 | 1,806,020 | - | 61.51 | 27.71 |
| 1982 | 19.94 | 6,816 | 1,519,732 | - | 65.11 | 30.83 |

$1 /$ Average New York raw sugar price computed over all the days of the year THawaiian 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.

21 For non-supervisory employees.
$\frac{3}{3} /$ Adults only.
Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised.

Table 575.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1972 TO 1982
[In millions of dollars. Calendar year data unless otherwise specified.]

| Year | Pineapple |  | Sugar |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canned fruit and juices 1/ | Fresh market sales $2 /$ | Value of production |  | Government sugar support payments |
|  |  |  | Raw sugar 960 | Commercial molasses |  |
| 1972 .. | 140.5 | 4.9 | 176.6 | 8.1 | 9.7 |
| 1973 .. | 135.0 | 7.4 | 203.8 | 18.4 | 9.5 |
| 1974 .. | 118.2 | 8.85 | 659.2 | 17.4 | 8.6 |
| 1975 .. | 126.6 | 10.08 | 354.6 | 11.5 | - |
| 1976 .. | 130.0 | 14.49 | 245.5 | 11.5 | - |
| 1977 .. | 140.0 | 21.58 | 219.1 | 7.7 | 48.7 |
| 1978 .. | 133.4 | 29.45 | 269.5 | 15.7 | 8.1 |
| 1979 .. | 176.3 | 30.08 | 322.2 | 23.5 | - |
| 1980 .. | 192.2 | 34.34 | 566.4 | 27.7 | - |
| 1981 .. | 172.0 | 45.59 | 314.2 | 13.7 | - |
| 1982 .. | 151.0 | 55.04 | 343.9 | 7.6 | - |

1/ Value of canned fruit and juices and by products shipped out- $\bar{f}-$-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.

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

