

DBEDT
THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII

QUARTERLY STATISTICAL & ECONOMIC REPORT



December 1998



This *Quarterly Statistical and Economic Report* has been prepared by the staff of the Research and Economic Analysis Division of the State Department of Business, Economic Development & Tourism (DBEDT). The report provides concise statistical information and analyses on Employment, Income and Prices, Taxes, Tourism, and Construction, as well as an overview of the State of Hawaii and the four counties.

Director, Dr. Seiji F. Naya, heads the department. This report was prepared under the direction of the division administrator, Dr. Pearl Imada Iboshi.

Technical notes and source descriptions have been kept to a minimum. However, the staff of the Research and Economic Analysis Division would be happy to respond to any inquiries of a technical nature that readers may have (586-2466). The quarterly information contained in this report reflects data received by the Research Division on or before December 15, 1998.

On-line availability of *Quarterly Statistical and Economic Report*

Since 1988, the Hawaii Department of Business, Economic Development & Tourism has had the *State of Hawaii Data Book* available on-line to anyone with a personal computer and a modem. Since last year, the *Quarterly Statistical and Economic Report*, *State of Hawaii Data Book* and other DBEDT publications and information have been made available over the Internet at <http://www.hawaii.gov/dbedt/index.html>.

For further information about available data and sources, users should call the Research and Economic Analysis Division's Business Resource Center at (808) 586-2424.

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STATE OF THE ECONOMY

The continuing struggles of the Asian economies seem to be having an impact on Hawaii. While the unemployment rate continued to fall, the number of jobs declined further. Tax revenues were up in the third quarter. However, personal income growth slowed in the second quarter of the year. The visitor industry continues to struggle from lower arrivals and hotel occupancy rates.

The civilian labor force and civilian employment showed expansion from the third quarter of 1998 over that in 1997 (Table 1). The labor force grew by 0.9 percent and civilian employment by 1.5 percent. This translated into a 0.5 percentage point decline in the unemployment rate over the period. Through September 1998, the unemployment rate was down by 0.8 percentage points.

However, the wage and salary job count continued to decline. Comparing the third quarters, the job count fell by 1.1 percent 1998 vis a vis 1997. For the first nine months, the number of jobs was down 0.8 percent from the same period last year. The number of jobs fell in all sectors with the exceptions of agriculture and government.

Personal income growth slowed to a seasonally adjusted annual rate of 2.0 percent in the second quarter of 1998 relative to the year-earlier quarter. (Personal income data are only available with a one-quarter lag from the U.S. Bureau of Economic Analysis.) Growth in wage and salary income continued to be the largest contributor, but growth in proprietors' income, and higher transfer payments also contributed to growth.

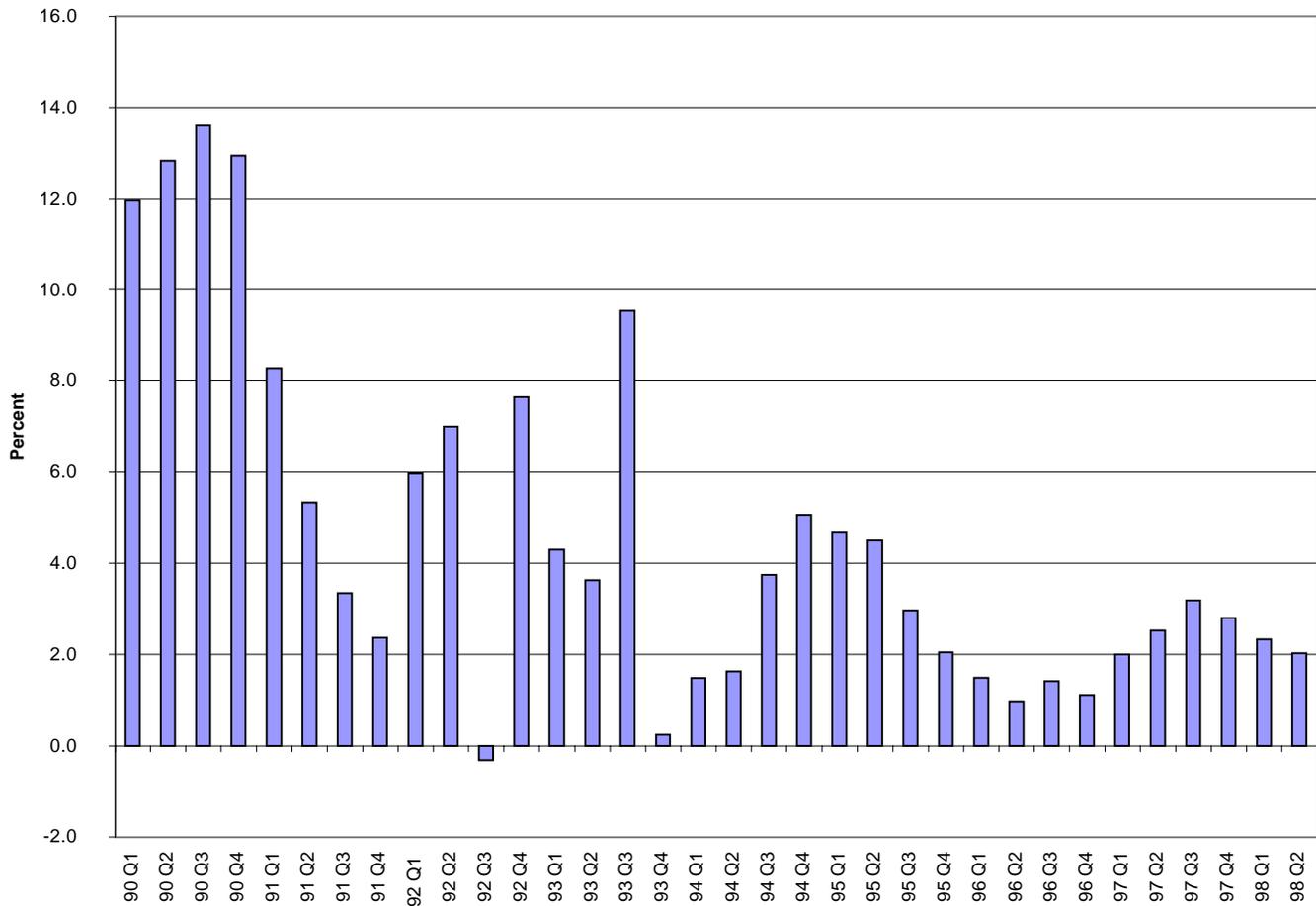
The growth in tax revenues was the brightest signal of Hawaii's economic health in this set of data. General fund revenues

expanded 4.9 percent when comparing the first three quarters of 1998 to those of 1997. For the first nine months, general fund tax revenue was up 6.1 percent. Much of the growth in revenue in the early part of the year was due to lingering effects from technical changes in prior years. However, by the third quarter, the effects of these changes were minimal. Net individual income tax receipts were up 5.1 percent for the third quarter and general excise tax receipts rose a more modest 1.1 percent.

The Asian financial and economic crisis continued to be felt via Hawaii's visitor industry. Visitor arrivals were down 3.0 percent from the third quarter of 1997 through the third quarter of 1998. For the year through September, visitor arrivals were down 1.6 percent. In retrospect this was a fairly strong performance, given that eastbound arrivals were down 11.8 percent from the third quarter of 1997 to that in 1998 and down by 9.5 percent in the first nine months of 1998 relative to that period in 1997. Together, this means that westbound arrivals grew at a strong enough pace to significantly moderate the rate of decline. Moreover, there is evidence that lengths of stay have been rising—led by longer stays from eastbound visitors.

Although some measures of construction activity improved in the third quarter, for the year through September, construction remains below last year. The estimated value of private construction authorizations was up 11.2 percent from the third quarter of 1997 through the third quarter of 1998. However, for the nine months through September, the value of authorizations was off by 15.6 percent. On the other hand, government capital improvement project spending was up by 17.2 percent over the same period of time.

Figure 1. Annual Growth in Personal Income
 [percentage change from the same period in previous year]



Source: Table B-2. Personal Income.

OUTLOOK OF THE ECONOMY

The economic outlook for Hawaii has not changed dramatically since the September 1998 issue of the *QSER*. Ongoing uncertainty over the implications of the Asian crisis weigh on Hawaii's short-term prospects. However, the continuing strength of the U.S. economy provides some support for Hawaii's economy. As a result DBEDT has slightly reduced its forecasts of some indicators but on balance expects a continuation of positive, if low, growth.

The November 10, 1998 issue of the Blue Chip Economic Indicators again somewhat lowered the consensus growth rate forecasts for key Asian economies. Japan's economy was expected to contract by 2.3 percent in 1998 and to show no growth in 1999. South Korea's economy will shrink by 5.8 percent in 1998 and expand by a slight 0.2 percent in 1999. Likewise, Hong Kong's economy will fall by 3.7 percent in 1998 and grow by 0.2 percent in 1999. By contrast, Taiwan was expected to grow at a relatively fast 4.4 percent in 1998 and 4.5 percent in 1999.

The Consensus Forecasts—USA reports an expectation that the U.S. dollar will trade for 125 yen in late February 1999. They see a slight depreciation of the yen to 127 by the end of November 1999. In contrast, currency futures markets currently price the yen at 121.9 for December delivery and 117.6 for September 1999 delivery. An

appreciating yen may boost Japanese visitor arrivals and expenditures.

For the U.S., the Blue Chip Indicators reported an increase in the consensus forecast for real gross domestic product growth (GDP) in 1998 to 3.5 percent. In 1999, real GDP was expected to rise by 2.1 percent. The U.S. unemployment rate should stay at a low 4.5 percent in 1998 and at 4.8 percent in 1999.

The UCLA Anderson Forecast, issued in September 1998, reported expected real personal income growth in California of 5.0 percent in 1998 and 3.0 percent in 1999. This would be down from growth of 5.2 percent in 1997. Employment in California was expected to grow at 2.5 percent in 1998 and by 2.4 percent in 1999.

These considerations have led to DBEDT's latest forecasts that appear in the accompanying table. Visitor arrivals are expected to fall by 1.6 percent this year and to grow slowly thereafter. Total wage and salary jobs will also fall in 1998, but are expected to begin growing in 1999. Real personal income and gross state product will rise by less than 2 percent this year and moderate next year and thereafter. This is largely the result of a slow, but steady, increase in expected inflation as Hawaii's prices follow the Mainland's.

**ACTUAL AND FORECAST KEY ECONOMIC INDICATORS FOR HAWAII:
1997 TO 2002**

| <i>Economic Indicators</i> | <i>1997 (actual)</i> | <i>1998 (forecast)</i> | <i>1999 (forecast)</i> | <i>2000 (forecast)</i> | <i>2001 (forecast)</i> | <i>2002 (forecast)</i> |
|--|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Total population (in thousands) | 1,186.6 | 1,190.2 | 1,194.9 | 1,200.9 | 1,208.1 | 1,215.3 |
| Visitor arrivals (in thousands) | 6,876.1 | 6,766.1 | 6,827.0 | 6,902.1 | 6,978.0 | 7,061.8 |
| Honolulu CPI-U (1982-84=100) | 171.9 | 172.2 | 173.8 | 175.9 | 178.5 | 181.2 |
| Personal income (in million dollars) | 30,478.8 | 31,088.4 | 31,741.2 | 32,471.3 | 33,218.1 | 34,015.4 |
| Personal income (in \$1987 million) | 20,372.4 | 20,738.4 | 20,985.0 | 21,213.1 | 21,380.3 | 21,569.9 |
| Total wage & salary jobs (in thousands) | 539.1 | 535.8 | 536.4 | 539.0 | 542.3 | 545.5 |
| Gross state product (in million dollars) | 34,238.6 | 34,914.8 | 35,661.0 | 36,486.7 | 37,341.9 | 38,243.3 |
| Real gross state product (in \$1987 million) | 23,859.7 | 24,296.4 | 24,610.8 | 24,905.6 | 25,129.1 | 25,394.0 |
| Gross state product deflator (1987=100) | 143.5 | 143.7 | 144.9 | 146.5 | 148.6 | 150.6 |
| Annual Percentage Change | | | | | | |
| Total population (in thousands) | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 |
| Visitor arrivals (in thousands) | 0.7 | -1.6 | 0.9 | 1.1 | 1.1 | 1.2 |
| Honolulu CPI-U (1982-84=100) | 0.7 | 0.2 | 0.9 | 1.2 | 1.5 | 1.5 |
| Personal income (in million dollars) | 2.6 | 2.0 | 2.1 | 2.3 | 2.3 | 2.4 |
| Personal income (in \$1987 million) | 1.9 | 1.8 | 1.2 | 1.1 | 0.8 | 0.9 |
| Total wage & salary jobs (in thousands) | 0.2 | -0.6 | 0.1 | 0.5 | 0.6 | 0.6 |
| Gross state product (in million dollars) | 2.2 | 2.0 | 2.1 | 2.3 | 2.3 | 2.4 |
| Real gross state product (in \$1987 million) | 1.5 | 1.8 | 1.3 | 1.2 | 0.9 | 1.1 |
| Gross state product deflator (1987=100) | 0.6 | 0.1 | 0.8 | 1.1 | 1.4 | 1.3 |

COUNTY ECONOMIC CONDITIONS

The counties of Hawaii and Kauai enjoyed the strongest economic performance in the third quarter relative to the previous year. The City and County of Honolulu and Maui County have performed less well.

In all counties the civilian labor force and civilian employment rose. The largest percentage increases in civilian employment were in Hawaii County (4.5 percent, Table 3) and Kauai County (3.1 percent, Table 5). As a result, the unemployment rates in all counties declined. For the year through September, every county other than the City and County of Honolulu experienced more than a 1-percentage-point reduction in the unemployment rate. The City and County of Honolulu's unemployment rate fell by one-half of one percentage point from the first nine months of 1997 through the first nine months of 1998 (Table 2).

While nonagricultural wage and salary jobs declined for the state as a whole, Honolulu and Maui counties have experienced the entire drop. Through September, nonagricultural jobs fell 1.2 percent in the City and County of Honolulu and by 0.6 percent in Maui County from the same period in 1997. In contrast, non-agricultural wage and salary jobs grew by 3.1 percent in Hawaii County and by 0.2 percent in Kauai County over the same period.

Construction jobs have declined for some time in the state as a whole, yet in the past nine months the declines have been confined to Honolulu and Maui counties. In Hawaii County construction jobs were up 7.3 percent from the first nine months of 1997 through the same period in 1998, and on Kauai County construction jobs grew by 5.3 percent over the same period.

Visitor-related jobs were also generally up in Hawaii and Kauai counties. Retail trade jobs grew 0.9 percent from the third quarter of 1997 through the third quarter of 1998 in Hawaii County and by 0.8 percent in Kauai County. Hotel jobs were down 3.6 percent in Hawaii County in the third quarter relative to the year-earlier quarter, but they were up for the year through September by 2.2 percent. In Kauai County, hotel jobs grew by 3.0 percent from the third quarter of 1997 through the third quarter of 1998, and they were up 1.5 percent for the year through September.

By contrast, retail trade jobs fell by 2.5 percent for the year through September in the City and County of Honolulu and by 0.4 percent over the same period in Maui County. The City and County of Honolulu also experienced a decline of 5.1 percent in hotel jobs from the first nine months of 1997 through the first nine months of 1998, while Maui County experienced no growth in hotel jobs over the same period.

Through the first three quarters of 1998, visitor arrivals were down 5.0 percent in the City and County of Honolulu from the same period in 1997. However, each of the other counties enjoyed growth in total arrivals, led by Hawaii County (4.8 percent) and Kauai County (1.0 percent). Westbound arrivals expanded in all counties other than the City and County of Honolulu. On the other hand, only Hawaii County saw an increase in eastbound arrivals (7.5 percent) from the first nine months of 1997 through the same period in 1998. As a consequence, hotel occupancy rates were higher by 3.3 percentage points in Hawaii County but down elsewhere—with the exception of Maui County which managed a 0.4 percentage point increase in occupancy rates.

Table 1. 1998 SELECTED ECONOMIC ACTIVITIES: STATE OF HAWAII

| SERIES | UNIT | 3rd QUARTER 1998 | | 1998 YEAR TO DATE | |
|--|---------|------------------|-------------------|-------------------|-------------------|
| | | NUMBER | % CHANGE YEAR AGO | NUMBER | % CHANGE YEAR AGO |
| Civilian labor force 1/ | Persons | 598,550 | 0.9 | 594,750 | 0.5 |
| Civilian employment | Persons | 561,550 | 1.5 | 559,700 | 1.3 |
| Civilian unemployment | Persons | 37,000 | -7.0 | 35,050 | -11.0 |
| Unemployment rate 2/ | % | 6.2 | -0.5 | 5.9 | -0.8 |
| Total non-agric. wage & salary jobs 1/ | Jobs | 520,800 | -1.1 | 526,650 | -0.8 |
| Contract construction | Jobs | 21,250 | -4.7 | 21,400 | -3.8 |
| Manufacturing | Jobs | 16,150 | -3.3 | 16,200 | -2.7 |
| Transport., comm., utilities | Jobs | 40,450 | -2.4 | 40,650 | -1.9 |
| Trade | Jobs | 131,400 | -2.1 | 132,150 | -1.6 |
| Retail | Jobs | 110,550 | -2.3 | 111,300 | -1.8 |
| Finance, insur., & real estate | Jobs | 35,100 | -2.9 | 35,150 | -2.9 |
| Services & miscellaneous | Jobs | 168,800 | -0.4 | 169,100 | 0.1 |
| Hotels | Jobs | 37,250 | -2.5 | 37,750 | -1.9 |
| Government | Jobs | 114,700 | 1.2 | 111,900 | 0.6 |
| State | Jobs | 59,350 | 2.3 | 64,500 | 1.2 |
| Federal | Jobs | 30,350 | -1.3 | 30,350 | -1.0 |
| Agriculture wage & salary jobs 1/ | Jobs | 8,000 | 6.7 | 7,550 | 7.1 |
| State general fund revenues | \$1,000 | 738,957 | 4.9 | 2,196,425 | 6.1 |
| Transient accommodations tax revenues | \$1,000 | 31,949 | -2.1 | 97,288 | -0.5 |
| General excise & use tax base | \$1,000 | 11,228,464 | -6.4 | 33,784,463 | -6.2 |
| Retailing tax base | \$1,000 | 3,701,325 | -6.7 | 11,194,289 | -6.9 |
| Services tax base | \$1,000 | 1,367,374 | 0.4 | 4,085,302 | -1.0 |
| Contracting tax base | \$1,000 | 770,863 | 5.0 | 2,149,535 | -2.2 |
| Hotel rental tax base | \$1,000 | 499,334 | -11.1 | 1,472,605 | -11.1 |
| Producing tax base | \$1,000 | 111,177 | -19.0 | 355,313 | -9.3 |
| Visitor arrivals 3/ | Persons | 1,772,450 | -3.0 | 5,120,390 | -1.6 |
| Westbound visitors | Persons | 1,082,380 | 3.6 | 3,196,230 | 3.8 |
| Eastbound visitors | Persons | 690,070 | -11.8 | 1,924,160 | -9.5 |
| Hotel occupancy rates 2/ | % | 73.8 | -2.4 | 73.7 | -1.8 |

1/ Labor force and jobs are averages based on monthly rounded data. Labor force data were rebenchmarked in March 1998.

2/ Change represents absolute change in rates rather than percentage change in rates.

3/ Preliminary data. Hawaii Visitors & Convention Bureau revised arrival data for 1997 and 1998 in June 1998.

Sources: Hawaii State Department of Labor & Industrial Relations; Hawaii State Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii State Department of Business, Economic Development & Tourism.

**Table 2. 1998 SELECTED ECONOMIC ACTIVITIES:
CITY AND COUNTY OF HONOLULU**

| SERIES | UNIT | 3rd QUARTER 1998 | | 1998 YEAR TO DATE | |
|--|---------|------------------|-------------------|-------------------|-------------------|
| | | NUMBER | % CHANGE YEAR AGO | NUMBER | % CHANGE YEAR AGO |
| Civilian labor force 1/ | Persons | 427,350 | 0.5 | 426,400 | 0.2 |
| Civilian employment | Persons | 404,550 | 0.8 | 405,000 | 0.7 |
| Civilian unemployment | Persons | 22,800 | -3.8 | 21,350 | -8.4 |
| Unemployment rate 2/ | % | 5.3 | -0.3 | 5.0 | -0.5 |
| Total non-agric. wage & salary jobs 1/ | Jobs | 392,250 | -1.5 | 397,950 | -1.2 |
| Contract construction | Jobs | 16,250 | -6.3 | 16,500 | -4.3 |
| Manufacturing | Jobs | 12,250 | -3.9 | 12,400 | -3.1 |
| Transport., comm., utilities | Jobs | 32,500 | -2.7 | 32,750 | -2.1 |
| Trade | Jobs | 96,750 | -2.7 | 97,600 | -2.1 |
| Retail | Jobs | 79,500 | -3.1 | 80,300 | -2.5 |
| Finance, insur., & real estate | Jobs | 28,050 | -3.1 | 28,100 | -3.3 |
| Services & miscellaneous | Jobs | 120,450 | -1.0 | 120,800 | -0.2 |
| Hotels | Jobs | 16,500 | -4.6 | 16,700 | -5.1 |
| Government | Jobs | 85,950 | 1.4 | 89,850 | 0.5 |
| State | Jobs | 44,700 | 2.5 | 49,500 | 1.2 |
| Federal | Jobs | 28,900 | -0.3 | 28,750 | -0.3 |
| Agriculture wage & salary jobs 1/ | Jobs | 2,550 | 21.4 | 2,200 | 12.8 |
| Transient accommodations tax revenues | \$1,000 | 24,740 | -3.7 | 78,083 | 4.1 |
| General excise & use tax base | \$1,000 | 10,123,916 | -6.7 | 30,439,765 | -5.8 |
| Retailing tax base | \$1,000 | 3,405,730 | -6.0 | 10,284,648 | -5.6 |
| Services tax base | \$1,000 | 1,175,200 | 0.3 | 3,473,866 | -1.7 |
| Contracting tax base | \$1,000 | 662,378 | 3.0 | 1,845,576 | -2.6 |
| Hotel rental tax base | \$1,000 | 429,844 | -11.3 | 1,286,080 | -5.8 |
| Producing tax base | \$1,000 | 82,339 | -24.7 | 260,277 | -15.4 |
| Visitor arrivals 3/ | Persons | 1,156,160 | -4.2 | 3,613,350 | -5.0 |
| Westbound visitors | Persons | 578,530 | 3.5 | 1,720,870 | -0.5 |
| Eastbound visitors | Persons | 577,630 | -10.9 | 1,892,480 | -8.8 |
| Hotel occupancy rates 2/ | % | 76.4 | -4.5 | 75.5 | -4.4 |

1/ Labor force and jobs are averages based on monthly rounded data. Labor force data were rebenchmarked in March 1998.

2/ Change represents absolute change in rates rather than percentage change in rates.

3/ Preliminary data. Hawaii Visitors & Convention Bureau revised arrival data for 1997 and 1998 in June 1998.

Sources: Hawaii State Department of Labor & Industrial Relations; Hawaii State Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii State Department of Business, Economic Development & Tourism.

Table 3. 1998 SELECTED ECONOMIC ACTIVITIES: HAWAII COUNTY

| SERIES | UNIT | 3rd QUARTER 1998 | | 1998 YEAR TO DATE | |
|--|---------|------------------|-------------------|-------------------|-------------------|
| | | NUMBER | % CHANGE YEAR AGO | NUMBER | % CHANGE YEAR AGO |
| Civilian labor force 1/ | Persons | 71,600 | 2.6 | 70,600 | 2.8 |
| Civilian employment | Persons | 64,900 | 4.5 | 64,250 | 4.7 |
| Civilian unemployment | Persons | 6,700 | -13.6 | 6,400 | -12.9 |
| Unemployment rate 2/ | % | 9.4 | -1.7 | 9.1 | -1.6 |
| Total non-agric. wage & salary jobs 1/ | Jobs | 50,950 | 3.7 | 50,800 | 3.1 |
| Contract construction | Jobs | 2,200 | 10.0 | 2,200 | 7.3 |
| Manufacturing | Jobs | 1,600 | -3.0 | 1,600 | -3.0 |
| Transport., comm., utilities | Jobs | 2,850 | 5.6 | 2,800 | 5.7 |
| Trade | Jobs | 12,850 | 0.4 | 12,850 | 0.4 |
| Retail | Jobs | 11,150 | 0.9 | 11,150 | 0.5 |
| Finance, insur., & real estate | Jobs | 2,650 | 1.9 | 2,600 | 0.0 |
| Services & miscellaneous | Jobs | 18,550 | 5.7 | 18,300 | 5.5 |
| Hotels | Jobs | 6,650 | -3.6 | 6,850 | 2.2 |
| Government | Jobs | 10,250 | 2.0 | 10,350 | 1.5 |
| State | Jobs | 7,100 | 2.9 | 7,250 | 2.1 |
| Federal | Jobs | 900 | 0.0 | 900 | 0.0 |
| Agriculture wage & salary jobs 1/ | Jobs | 2,450 | -2.0 | 2,450 | 6.5 |
| Transient accommodations tax revenues | \$1,000 | 1,739 | -5.8 | 5,886 | 2.0 |
| General excise & use tax base | \$1,000 | 431,848 | -7.7 | 1,337,590 | -10.3 |
| Retailing tax base | \$1,000 | 111,623 | -19.3 | 340,394 | -22.1 |
| Services tax base | \$1,000 | 82,876 | 1.1 | 269,391 | 4.7 |
| Contracting tax base | \$1,000 | 45,367 | 23.1 | 119,810 | -5.0 |
| Hotel rental tax base | \$1,000 | 8,577 | -34.9 | 25,978 | -46.4 |
| Producing tax base | \$1,000 | 20,320 | -2.6 | 70,252 | 13.2 |
| Visitor arrivals 3/ | Persons | 313,040 | -1.0 | 959,260 | 4.8 |
| Westbound visitors | Persons | 221,490 | 0.9 | 715,840 | 4.0 |
| Eastbound visitors | Persons | 91,550 | -5.3 | 243,420 | 7.5 |
| Hotel occupancy rates 2/ | % | 67.6 | 2.4 | 70.3 | 3.3 |

1/ Labor force and jobs are averages based on monthly rounded data. Labor force data were rebenchmarked in March 1998.

2/ Change represents absolute change in rates rather than percentage change in rates.

3/ Preliminary data. Hawaii Visitors & Convention Bureau revised arrival data for 1997 and 1998 in June 1998.

Sources: Hawaii State Department of Labor & Industrial Relations; Hawaii State Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii State Department of Business, Economic Development & Tourism.

Table 4. 1998 SELECTED ECONOMIC ACTIVITIES: MAUI COUNTY

| SERIES | UNIT | 3rd QUARTER 1998 | | 1998 YEAR TO DATE | |
|--|---------|------------------|-------------------|-------------------|-------------------|
| | | NUMBER | % CHANGE YEAR AGO | NUMBER | % CHANGE YEAR AGO |
| Civilian labor force 1/ | Persons | 70,250 | 1.3 | 69,250 | 0.1 |
| Civilian employment | Persons | 65,700 | 2.3 | 64,700 | 1.5 |
| Civilian unemployment | Persons | 4,600 | -10.7 | 4,500 | -16.7 |
| Unemployment rate 2/ | % | 6.5 | -0.9 | 6.5 | -1.3 |
| Total non-agric. wage & salary jobs 1/ | Jobs | 54,650 | -1.0 | 54,950 | -0.6 |
| Contract construction | Jobs | 1,750 | -12.5 | 1,750 | -10.3 |
| Manufacturing | Jobs | 1,850 | -5.1 | 1,800 | -2.7 |
| Transport., comm., utilities | Jobs | 3,450 | -5.5 | 3,500 | -5.4 |
| Trade | Jobs | 14,950 | -0.7 | 15,050 | -0.3 |
| Retail | Jobs | 13,550 | -1.1 | 13,700 | -0.4 |
| Finance, insur., & real estate | Jobs | 3,000 | -4.8 | 3,050 | -1.6 |
| Services & miscellaneous | Jobs | 22,200 | 1.1 | 22,300 | 1.1 |
| Hotels | Jobs | 10,850 | -0.5 | 11,000 | 0.0 |
| Government | Jobs | 7,500 | 0.7 | 7,500 | 0.0 |
| State | Jobs | 5,100 | 3.0 | 5,200 | 3.0 |
| Federal | Jobs | 500 | 0.0 | 500 | 0.0 |
| Agriculture wage & salary jobs 1/ | Jobs | 2,200 | 7.3 | 2,000 | 0.0 |
| Transient accommodations tax revenues | \$1,000 | 3,841 | 21.1 | 10,799 | -20.1 |
| General excise & use tax base | \$1,000 | 466,991 | -0.6 | 1,431,554 | -10.3 |
| Retailing tax base | \$1,000 | 128,557 | -9.0 | 403,978 | -19.1 |
| Services tax base | \$1,000 | 78,555 | 0.5 | 243,366 | -2.1 |
| Contracting tax base | \$1,000 | 45,550 | 20.7 | 133,467 | 8.5 |
| Hotel rental tax base | \$1,000 | 46,117 | -0.8 | 124,608 | -35.0 |
| Producing tax base | \$1,000 | 6,722 | 12.9 | 20,123 | 10.3 |
| Visitor arrivals 3/ | Persons | 620,270 | 2.4 | 1,792,290 | 0.3 |
| Westbound visitors | Persons | 504,800 | 3.8 | 1,473,960 | 2.8 |
| Eastbound visitors | Persons | 115,470 | -3.1 | 318,330 | -9.7 |
| Hotel occupancy rates 2/ | % | 73.0 | -0.2 | 73.9 | 0.4 |

1/ Labor force and jobs are averages based on monthly rounded data. Labor force data were rebenchmarked in March 1998.

2/ Change represents absolute change in rates rather than percentage change in rates.

3/ Preliminary data. Hawaii Visitors & Convention Bureau revised arrival data for 1997 and 1998 in June, 1998.

4/ Data represent Maui Island only.

Sources: Hawaii State Department of Labor & Industrial Relations; Hawaii State Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii State Department of Business, Economic Development & Tourism.

Table 5. 1998 SELECTED ECONOMIC ACTIVITIES: KAUAI COUNTY

| SERIES | UNIT | 3rd QUARTER 1998 | | 1998 YEAR TO DATE | |
|--|---------|------------------|-------------------|-------------------|-------------------|
| | | NUMBER | % CHANGE YEAR AGO | NUMBER | % CHANGE YEAR AGO |
| Civilian labor force 1/ | Persons | 29,350 | 2.1 | 28,550 | -0.2 |
| Civilian employment | Persons | 26,400 | 3.1 | 25,750 | 2.0 |
| Civilian unemployment | Persons | 2,950 | -6.3 | 2,800 | -16.4 |
| Unemployment rate 2/ | % | 10.1 | -0.9 | 9.8 | -1.9 |
| Total non-agric. wage & salary jobs 1/ | Jobs | 23,550 | 1.3 | 23,300 | 0.2 |
| Contract construction | Jobs | 1,150 | 21.1 | 1,000 | 5.3 |
| Manufacturing | Jobs | 400 | -11.1 | 400 | -11.1 |
| Transport., comm., utilities | Jobs | 1,550 | 0.0 | 1,550 | 0.0 |
| Trade | Jobs | 6,750 | 0.7 | 6,650 | 0.8 |
| Retail | Jobs | 6,300 | 0.8 | 6,150 | 0.8 |
| Finance, insur., & real estate | Jobs | 1,400 | -6.7 | 1,400 | -6.7 |
| Services & miscellaneous | Jobs | 8,400 | 1.2 | 8,300 | 0.0 |
| Hotels | Jobs | 3,400 | 3.0 | 3,400 | 1.5 |
| Government | Jobs | 3,850 | 0.0 | 3,950 | 0.0 |
| State | Jobs | 2,400 | 0.0 | 2,550 | 0.0 |
| Federal | Jobs | 400 | 14.3 | 400 | 0.0 |
| Agriculture wage & salary jobs 1/ | Jobs | 850 | -5.5 | 850 | 6.3 |
| Transient accommodations tax revenues | \$1,000 | 911 | -24.1 | 2,459 | -28.1 |
| General excise & use tax base | \$1,000 | 205,708 | 1.2 | 575,553 | -4.4 |
| Retailing tax base | \$1,000 | 55,414 | -16.2 | 165,266 | -14.9 |
| Services tax base | \$1,000 | 30,743 | 2.5 | 98,678 | 15.8 |
| Contracting tax base | \$1,000 | 17,568 | 9.0 | 50,684 | -6.3 |
| Hotel rental tax base | \$1,000 | 14,797 | -16.8 | 35,936 | -27.9 |
| Producing tax base | \$1,000 | 1,797 | 70.0 | 4,662 | 27.9 |
| Visitor arrivals 3/ | Persons | 272,360 | 6.9 | 775,840 | 1.0 |
| Westbound visitors | Persons | 239,600 | 7.9 | 677,840 | 4.5 |
| Eastbound visitors | Persons | 32,760 | -0.1 | 98,000 | -18.1 |
| Hotel occupancy rates 2/ | % | 73.9 | -4.4 | 69.2 | -1.6 |

1/ Labor force and jobs are averages based on monthly rounded data. Labor force data were rebenchmarked in March 1998.

2/ Change represents absolute change in rates rather than percentage change in rates.

3/ Preliminary data. Hawaii Visitors & Convention Bureau revised arrival data for 1997 and 1998 in June, 1998.

Sources: Hawaii State Department of Labor & Industrial Relations; Hawaii State Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii State Department of Business, Economic Development & Tourism.

A. LABOR FORCE AND JOBS

Hawaii's labor markets continued to show both good and bad news in the third quarter. Civilian employment grew while the unemployment rate fell. However, nonagricultural wage and salary jobs continued to decline. Moreover, the job declines appeared in virtually all sectors of the economy.

Part of the good news was that civilian employment expanded by 1.5 percent from the third quarter of 1997 through the third quarter of 1998 (Table A-2). This was the fourth consecutive quarter of employment increases by this measure.

Another part of the good news was that the number of unemployed fell by 1,800 or 7.0 percent, over the same period (Table A-3). This decline had the effect of lowering Hawaii's unemployment rate from 6.7 percent in the third quarter of last year to 6.2 percent in the third quarter of 1998 (Table A-4).

However, the bad news was that nonagricultural wage and salary jobs fell by 1.1 percent from the third quarter of 1997 through the third quarter of 1998 (Table A-5). Nonagricultural jobs have now fallen for three consecutive quarters on a year-over-year basis. At 521,000 the number of such jobs is now slightly below the level reached in 1990.

The divergence between civilian employment and wage and salary jobs has persisted for about three years. Initial explanations focused on the loss of second jobs by multiple jobholders and technical differences in the two surveys that generate the two data series. A more recent hypothesis is that the number of self-employed may be rising as those laid off start their own businesses. Evidence consistent with this explanation includes the 2.8 percent growth in

the number of self-employed from 1996 through 1997 and the recent high rates of growth in the proprietors' income portion of personal income.

The number of nonagricultural wage and salary jobs declined in most sectors. The largest percentage declines occurred in construction (-4.7 percent, Table A-6), manufacturing (-3.3 percent, Table A-7), and finance, insurance, and real estate (-2.9 percent, Table A-13).

In the public sector, federal government jobs fell by 1.3 percent in the third quarter of 1998 relative to the year-earlier quarter (Table A-16). At 30,350, the number of third-quarter federal government jobs is just slightly above the level last seen in 1980. In contrast, state and local government jobs both increased in the third quarter.

Agricultural wage and salary jobs grew a remarkable 6.7 percent over the period (Table A-19). This was the third consecutive quarter of better than 6.0 percent annual growth in agricultural wage and salary jobs. The number of such jobs is now higher than in the third quarter of 1995.

Two new tables have been added to this section of the *QSER*. Table A-20 reports the number of unemployment claims filed in Hawaii against another state. These are claims from relatively new arrivals who have had trouble finding work in Hawaii. Table A-21 reports the number of unemployment claims filed against Hawaii by Hawaii workers who have moved to another state. Both types of claims have declined dramatically in the last several quarters. This may indicate that the labor markets have now adjusted to Hawaii's relatively slow-growing economy.

Table A-1. CIVILIAN LABOR FORCE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Persons | | | | | |
| 1982 | 455,300 | 461,300 | 463,750 | 463,700 | 461,000 |
| 1983 | 469,050 | 473,950 | 472,800 | 472,250 | 472,000 |
| 1984 | 471,800 | 473,650 | 470,750 | 471,800 | 472,000 |
| 1985 | 475,350 | 477,200 | 478,450 | 485,000 | 479,000 |
| 1986 | 485,300 | 488,850 | 493,950 | 499,900 | 492,000 |
| 1987 | 505,950 | 513,000 | 516,250 | 520,800 | 514,000 |
| 1988 | 515,400 | 519,400 | 518,950 | 518,200 | 518,000 |
| 1989 | 519,350 | 526,700 | 521,900 | 528,050 | 524,000 |
| 1990 | 531,950 | 539,750 | 544,650 | 551,650 | 542,000 |
| 1991 | 568,750 | 573,050 | 576,100 | 577,100 | 573,750 |
| 1992 | 579,250 | 582,950 | 585,400 | 588,700 | 584,050 |
| 1993 | 587,000 | 588,000 | 585,100 | 583,800 | 586,000 |
| 1994 | 581,500 | 581,850 | 580,100 | 577,100 | 580,150 |
| 1995 | 574,200 | 577,150 | 577,750 | 579,250 | 576,400 |
| 1996 | 585,250 | 590,500 | 592,350 | 592,700 | 590,200 |
| 1997 | 591,400 | 591,550 | 593,100 | 592,000 | 592,000 |
| 1998 | 592,400 | 593,350 | 598,550 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 1.4 | 2.3 | 2.7 | 2.5 | 2.2 |
| 1983 | 3.0 | 2.7 | 2.0 | 1.8 | 2.4 |
| 1984 | 0.6 | -0.1 | -0.4 | -0.1 | 0.0 |
| 1985 | 0.8 | 0.7 | 1.6 | 2.8 | 1.5 |
| 1986 | 2.1 | 2.4 | 3.2 | 3.1 | 2.7 |
| 1987 | 4.3 | 4.9 | 4.5 | 4.2 | 4.5 |
| 1988 | 1.9 | 1.2 | 0.5 | -0.5 | 0.8 |
| 1989 | 0.8 | 1.4 | 0.6 | 1.9 | 1.2 |
| 1990 | 2.4 | 2.5 | 4.4 | 4.5 | 3.4 |
| 1991 | 6.9 | 6.2 | 5.8 | 4.6 | 5.9 |
| 1992 | 1.8 | 1.7 | 1.6 | 2.0 | 1.8 |
| 1993 | 1.3 | 0.9 | -0.1 | -0.8 | 0.3 |
| 1994 | -0.9 | -1.0 | -0.9 | -1.1 | -1.0 |
| 1995 | -1.3 | -0.8 | -0.4 | 0.4 | -0.6 |
| 1996 | 1.9 | 2.3 | 2.5 | 2.3 | 2.4 |
| 1997 | 1.1 | 0.2 | 0.1 | -0.1 | 0.3 |
| 1998 | 0.2 | 0.3 | 0.9 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-2. CIVILIAN EMPLOYMENT

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Persons | | | | | |
| 1982 | 426,850 | 427,850 | 429,850 | 435,400 | 430,000 |
| 1983 | 438,550 | 440,000 | 444,100 | 445,350 | 442,000 |
| 1984 | 446,050 | 447,000 | 442,900 | 444,000 | 445,000 |
| 1985 | 449,250 | 450,400 | 449,800 | 458,600 | 452,000 |
| 1986 | 461,850 | 464,800 | 468,200 | 477,200 | 468,000 |
| 1987 | 484,250 | 492,150 | 494,700 | 504,900 | 494,000 |
| 1988 | 500,650 | 501,300 | 502,250 | 503,800 | 502,000 |
| 1989 | 505,200 | 512,250 | 511,800 | 514,750 | 511,000 |
| 1990 | 517,300 | 523,100 | 529,100 | 538,550 | 527,000 |
| 1991 | 553,950 | 557,100 | 559,400 | 560,600 | 557,750 |
| 1992 | 557,400 | 555,650 | 556,300 | 560,400 | 557,450 |
| 1993 | 560,600 | 563,050 | 560,600 | 559,350 | 560,900 |
| 1994 | 549,150 | 545,200 | 541,600 | 544,050 | 545,000 |
| 1995 | 541,650 | 542,700 | 541,900 | 546,750 | 542,650 |
| 1996 | 549,500 | 551,900 | 553,050 | 555,700 | 552,550 |
| 1997 | 553,250 | 551,250 | 553,300 | 558,700 | 554,150 |
| 1998 | 559,400 | 558,200 | 561,550 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 0.1 | 0.2 | 0.6 | 1.9 | 0.7 |
| 1983 | 2.7 | 2.8 | 3.3 | 2.3 | 2.8 |
| 1984 | 1.7 | 1.6 | -0.3 | -0.3 | 0.7 |
| 1985 | 0.7 | 0.8 | 1.6 | 3.3 | 1.6 |
| 1986 | 2.8 | 3.2 | 4.1 | 4.1 | 3.5 |
| 1987 | 4.9 | 5.9 | 5.7 | 5.8 | 5.6 |
| 1988 | 3.4 | 1.9 | 1.5 | -0.2 | 1.6 |
| 1989 | 0.9 | 2.2 | 1.9 | 2.2 | 1.8 |
| 1990 | 2.4 | 2.1 | 3.4 | 4.6 | 3.1 |
| 1991 | 7.1 | 6.5 | 5.7 | 4.1 | 5.8 |
| 1992 | 0.6 | -0.3 | -0.6 | 0.0 | -0.1 |
| 1993 | 0.6 | 1.3 | 0.8 | -0.2 | 0.6 |
| 1994 | -2.0 | -3.2 | -3.4 | -2.7 | -2.8 |
| 1995 | -1.4 | -0.5 | 0.1 | 0.5 | -0.4 |
| 1996 | 1.4 | 1.7 | 2.1 | 1.6 | 1.8 |
| 1997 | 0.7 | -0.1 | 0.0 | 0.5 | 0.3 |
| 1998 | 1.1 | 1.3 | 1.5 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-3. CIVILIAN UNEMPLOYMENT

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Persons | | | | | |
| 1982 | 28,400 | 33,450 | 33,850 | 28,250 | 31,000 |
| 1983 | 30,450 | 33,900 | 28,700 | 26,900 | 30,000 |
| 1984 | 25,750 | 26,600 | 27,850 | 27,800 | 27,000 |
| 1985 | 26,100 | 26,800 | 28,650 | 26,450 | 27,000 |
| 1986 | 23,500 | 24,050 | 25,750 | 22,700 | 24,000 |
| 1987 | 21,700 | 20,850 | 21,550 | 15,900 | 20,000 |
| 1988 | 14,750 | 18,150 | 16,700 | 14,450 | 16,000 |
| 1989 | 14,200 | 14,450 | 10,100 | 13,300 | 13,000 |
| 1990 | 14,650 | 16,650 | 15,550 | 13,100 | 15,000 |
| 1991 | 14,800 | 15,900 | 16,700 | 16,500 | 16,000 |
| 1992 | 21,850 | 27,300 | 29,100 | 28,300 | 26,650 |
| 1993 | 26,450 | 25,000 | 24,500 | 24,400 | 25,100 |
| 1994 | 32,350 | 36,650 | 38,550 | 33,100 | 35,150 |
| 1995 | 32,550 | 34,450 | 35,850 | 32,500 | 33,800 |
| 1996 | 35,750 | 38,600 | 39,300 | 37,000 | 37,650 |
| 1997 | 38,150 | 40,300 | 39,800 | 33,250 | 37,900 |
| 1998 | 33,050 | 35,150 | 37,000 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 24.8 | 40.5 | 41.0 | 11.0 | 29.2 |
| 1983 | 7.2 | 1.3 | -15.2 | -4.8 | -3.2 |
| 1984 | -15.4 | -21.5 | -3.0 | 3.3 | -10.0 |
| 1985 | 1.4 | 0.8 | 2.9 | -4.9 | 0.0 |
| 1986 | -10.0 | -10.3 | -10.1 | -14.2 | -11.1 |
| 1987 | -7.7 | -13.3 | -16.3 | -30.0 | -16.7 |
| 1988 | -32.0 | -12.9 | -22.5 | -9.1 | -20.0 |
| 1989 | -3.7 | -20.4 | -39.5 | -8.0 | -18.8 |
| 1990 | 3.2 | 15.2 | 54.0 | -1.5 | 15.4 |
| 1991 | 1.0 | -4.5 | 7.4 | 26.0 | 6.7 |
| 1992 | 47.6 | 71.7 | 74.3 | 71.5 | 66.6 |
| 1993 | 21.1 | -8.4 | -15.8 | -13.8 | -5.8 |
| 1994 | 22.3 | 46.6 | 57.3 | 35.7 | 40.0 |
| 1995 | 0.6 | -6.0 | -7.0 | -1.8 | -3.8 |
| 1996 | 9.8 | 12.0 | 9.6 | 13.8 | 11.4 |
| 1997 | 6.7 | 4.4 | 1.3 | -10.1 | 0.7 |
| 1998 | -13.4 | -12.8 | -7.0 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-4. CIVILIAN UNEMPLOYMENT RATE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|-------------------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Percent of the Civilian Labor Force | | | | | |
| 1982 | 6.2 | 7.3 | 7.3 | 6.1 | 6.7 |
| 1983 | 6.5 | 7.2 | 6.1 | 5.7 | 6.5 |
| 1984 | 5.5 | 5.6 | 5.9 | 5.9 | 5.6 |
| 1985 | 5.5 | 5.6 | 6.0 | 5.4 | 5.6 |
| 1986 | 4.8 | 4.9 | 5.2 | 4.5 | 4.8 |
| 1987 | 4.3 | 4.1 | 4.2 | 3.1 | 3.8 |
| 1988 | 2.9 | 3.5 | 3.2 | 2.8 | 3.1 |
| 1989 | 2.7 | 2.7 | 1.9 | 2.5 | 2.5 |
| 1990 | 2.8 | 3.1 | 2.9 | 2.4 | 2.8 |
| 1991 | 2.6 | 2.8 | 2.9 | 2.9 | 2.8 |
| 1992 | 3.8 | 4.7 | 5.0 | 4.8 | 4.6 |
| 1993 | 4.5 | 4.3 | 4.2 | 4.2 | 4.3 |
| 1994 | 5.6 | 6.3 | 6.6 | 5.7 | 6.1 |
| 1995 | 5.7 | 6.0 | 6.2 | 5.6 | 5.9 |
| 1996 | 6.1 | 6.5 | 6.6 | 6.2 | 6.4 |
| 1997 | 6.5 | 6.8 | 6.7 | 5.6 | 6.4 |
| 1998 | 5.6 | 5.9 | 6.2 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-5. NON-AGRICULTURAL WAGE AND SALARY JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 400,800 | 401,300 | 397,350 | 398,100 | 399,400 |
| 1983 | 403,550 | 403,450 | 407,400 | 410,500 | 406,200 |
| 1984 1/ | 409,950 | 414,700 | 410,350 | 415,700 | 412,100 |
| 1985 | 419,950 | 423,700 | 426,950 | 432,350 | 425,750 |
| 1986 | 432,850 | 435,800 | 438,150 | 447,450 | 438,550 |
| 1987 | 451,900 | 459,000 | 458,450 | 470,550 | 459,950 |
| 1988 | 470,400 | 476,900 | 476,750 | 488,200 | 478,050 |
| 1989 | 495,450 | 503,100 | 504,000 | 519,350 | 505,450 |
| 1990 | 520,000 | 528,600 | 525,750 | 539,150 | 528,400 |
| 1991 | 537,950 | 537,300 | 536,100 | 545,200 | 539,150 |
| 1992 | 543,100 | 544,650 | 538,700 | 544,700 | 542,800 |
| 1993 | 540,100 | 543,450 | 532,300 | 539,800 | 538,900 |
| 1994 | 535,450 | 538,050 | 530,450 | 540,750 | 536,200 |
| 1995 | 536,000 | 536,200 | 526,000 | 533,150 | 532,850 |
| 1996 | 531,200 | 531,650 | 525,800 | 534,350 | 530,750 |
| 1997 | 532,900 | 533,450 | 526,700 | 534,400 | 531,850 |
| 1998 | 530,100 | 529,050 | 520,800 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -1.4 | -1.4 | -1.5 | -1.1 | -1.3 |
| 1983 | 0.7 | 0.5 | 2.5 | 3.1 | 1.7 |
| 1984 | 1.6 | 2.8 | 0.7 | 1.3 | 1.5 |
| 1985 | 2.4 | 2.2 | 4.0 | 4.0 | 3.3 |
| 1986 | 3.1 | 2.9 | 2.6 | 3.5 | 3.0 |
| 1987 | 4.4 | 5.3 | 4.6 | 5.2 | 4.9 |
| 1988 | 4.1 | 3.9 | 4.0 | 3.8 | 3.9 |
| 1989 | 5.3 | 5.5 | 5.7 | 6.4 | 5.7 |
| 1990 | 5.0 | 5.1 | 4.3 | 3.8 | 4.5 |
| 1991 | 3.5 | 1.6 | 2.0 | 1.1 | 2.0 |
| 1992 | 1.0 | 1.4 | 0.5 | -0.1 | 0.7 |
| 1993 | -0.6 | -0.2 | -1.2 | -0.9 | -0.7 |
| 1994 | -0.9 | -1.0 | -0.3 | 0.2 | -0.5 |
| 1995 | 0.1 | -0.3 | -0.8 | -1.4 | -0.6 |
| 1996 | -0.9 | -0.8 | 0.0 | 0.2 | -0.4 |
| 1997 | 0.3 | 0.3 | 0.2 | 0.0 | 0.2 |
| 1998 | -0.5 | -0.8 | -1.1 | (NA) | (NA) |

NA Not available.

1/ Quarterly data contains unrevised numbers.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-6. CONSTRUCTION JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 18,950 | 18,100 | 17,400 | 16,900 | 17,850 |
| 1983 | 18,100 | 17,800 | 17,900 | 17,500 | 17,800 |
| 1984 | 16,950 | 16,950 | 15,700 | 13,550 | 15,800 |
| 1985 | 16,000 | 16,950 | 17,900 | 17,850 | 17,150 |
| 1986 | 17,400 | 17,550 | 19,400 | 20,200 | 18,650 |
| 1987 | 20,600 | 21,200 | 21,500 | 21,500 | 21,200 |
| 1988 | 21,700 | 23,000 | 24,000 | 24,900 | 23,400 |
| 1989 | 26,500 | 28,600 | 30,150 | 31,500 | 29,200 |
| 1990 | 30,900 | 31,450 | 32,950 | 34,000 | 32,300 |
| 1991 | 33,450 | 33,800 | 33,950 | 33,000 | 33,550 |
| 1992 | 31,200 | 31,000 | 31,300 | 32,600 | 31,550 |
| 1993 | 32,650 | 32,650 | 32,500 | 31,500 | 32,350 |
| 1994 | 29,450 | 29,300 | 29,550 | 28,450 | 29,200 |
| 1995 | 26,500 | 26,150 | 26,650 | 25,800 | 26,300 |
| 1996 | 23,750 | 23,600 | 24,000 | 23,350 | 23,650 |
| 1997 | 22,350 | 22,050 | 22,300 | 22,500 | 22,300 |
| 1998 | 21,650 | 21,300 | 21,250 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -17.4 | -18.8 | -20.4 | -17.6 | -18.5 |
| 1983 | -4.5 | -1.7 | 2.9 | 3.6 | -0.3 |
| 1984 | -6.4 | -4.8 | -12.3 | -22.6 | -11.2 |
| 1985 | -5.6 | 0.0 | 14.0 | 31.7 | 8.5 |
| 1986 | 8.7 | 3.5 | 8.4 | 13.2 | 8.7 |
| 1987 | 18.4 | 20.8 | 10.8 | 6.4 | 13.7 |
| 1988 | 5.3 | 8.5 | 11.6 | 15.8 | 10.4 |
| 1989 | 22.1 | 24.3 | 25.6 | 26.5 | 24.8 |
| 1990 | 16.6 | 10.0 | 9.3 | 7.9 | 10.6 |
| 1991 | 8.3 | 7.5 | 3.0 | -2.9 | 3.9 |
| 1992 | -6.7 | -8.3 | -7.8 | -1.2 | -6.0 |
| 1993 | 4.6 | 5.3 | 3.8 | -3.4 | 2.5 |
| 1994 | -9.8 | -10.3 | -9.1 | -9.7 | -9.7 |
| 1995 | -10.0 | -10.8 | -9.8 | -9.3 | -9.9 |
| 1996 | -10.4 | -9.8 | -9.9 | -9.5 | -10.1 |
| 1997 | -5.9 | -6.6 | -7.1 | -3.6 | -5.7 |
| 1998 | -3.1 | -3.4 | -4.7 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-7. MANUFACTURING JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 21,600 | 22,800 | 23,700 | 21,600 | 22,400 |
| 1983 | 22,000 | 22,250 | 23,500 | 21,650 | 22,350 |
| 1984 | 21,550 | 21,950 | 22,500 | 21,450 | 21,900 |
| 1985 | 21,400 | 21,950 | 22,400 | 21,950 | 21,900 |
| 1986 | 21,750 | 22,350 | 22,300 | 21,800 | 22,050 |
| 1987 | 21,850 | 21,900 | 22,050 | 21,800 | 21,900 |
| 1988 | 21,750 | 22,200 | 22,200 | 21,700 | 22,000 |
| 1989 | 21,600 | 21,400 | 21,550 | 21,350 | 21,500 |
| 1990 | 21,100 | 21,000 | 21,150 | 20,950 | 21,050 |
| 1991 | 20,550 | 20,350 | 20,600 | 20,300 | 20,450 |
| 1992 | 19,700 | 19,650 | 20,000 | 19,400 | 19,700 |
| 1993 | 19,300 | 19,250 | 19,350 | 18,750 | 19,150 |
| 1994 | 17,850 | 18,000 | 17,850 | 17,400 | 17,750 |
| 1995 | 16,800 | 16,850 | 17,200 | 17,050 | 17,000 |
| 1996 | 16,700 | 16,650 | 16,750 | 16,600 | 16,650 |
| 1997 | 16,600 | 16,700 | 16,700 | 16,450 | 16,600 |
| 1998 | 16,350 | 16,150 | 16,150 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -3.6 | -4.2 | -1.0 | -0.7 | -2.6 |
| 1983 | 1.9 | -2.4 | -0.8 | 0.2 | -0.2 |
| 1984 | -2.0 | -1.3 | -4.3 | -0.9 | -2.0 |
| 1985 | -0.7 | 0.0 | -0.4 | 2.3 | 0.0 |
| 1986 | 1.6 | 1.8 | -0.4 | -0.7 | 0.7 |
| 1987 | 0.5 | -2.0 | -1.1 | 0.0 | -0.7 |
| 1988 | -0.5 | 1.4 | 0.7 | -0.5 | 0.5 |
| 1989 | -0.7 | -3.6 | -2.9 | -1.6 | -2.3 |
| 1990 | -2.3 | -1.9 | -1.9 | -1.9 | -2.1 |
| 1991 | -2.6 | -3.1 | -2.6 | -3.1 | -2.9 |
| 1992 | -4.1 | -3.4 | -2.9 | -4.4 | -3.7 |
| 1993 | -2.0 | -2.0 | -3.3 | -3.4 | -2.8 |
| 1994 | -7.5 | -6.5 | -7.8 | -7.2 | -7.3 |
| 1995 | -5.9 | -6.4 | -3.6 | -2.0 | -4.2 |
| 1996 | -0.6 | -1.2 | -2.6 | -2.6 | -2.1 |
| 1997 | -0.6 | 0.3 | -0.3 | -0.9 | -0.3 |
| 1998 | -1.5 | -3.3 | -3.3 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-8. TRANSPORTATION JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 21,250 | 21,400 | 21,050 | 20,950 | 21,150 |
| 1983 | 20,850 | 20,850 | 21,300 | 21,500 | 21,100 |
| 1984 | 21,450 | 21,950 | 22,300 | 22,650 | 22,100 |
| 1985 | 22,800 | 23,400 | 23,500 | 23,850 | 23,400 |
| 1986 | 24,050 | 24,400 | 24,550 | 25,150 | 24,550 |
| 1987 | 26,000 | 26,800 | 27,250 | 27,600 | 26,900 |
| 1988 | 27,450 | 27,800 | 27,750 | 28,100 | 27,750 |
| 1989 | 29,000 | 29,700 | 29,850 | 30,950 | 29,900 |
| 1990 | 30,850 | 31,400 | 31,950 | 33,200 | 31,850 |
| 1991 | 32,750 | 32,400 | 32,950 | 33,250 | 32,850 |
| 1992 | 32,850 | 33,050 | 33,100 | 32,650 | 32,900 |
| 1993 | 31,500 | 31,400 | 31,250 | 31,150 | 31,350 |
| 1994 | 31,850 | 32,250 | 31,650 | 31,750 | 31,900 |
| 1995 | 30,600 | 30,750 | 30,700 | 30,650 | 30,700 |
| 1996 | 30,800 | 30,700 | 31,050 | 31,350 | 31,000 |
| 1997 | 31,350 | 31,300 | 31,250 | 31,500 | 31,350 |
| 1998 | 31,150 | 30,550 | 30,450 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -0.2 | -2.5 | -5.4 | -5.0 | -3.4 |
| 1983 | -1.9 | -2.6 | 1.2 | 2.6 | -0.2 |
| 1984 | 2.9 | 5.3 | 4.7 | 5.3 | 4.7 |
| 1985 | 6.3 | 6.6 | 5.4 | 5.3 | 5.9 |
| 1986 | 5.5 | 4.3 | 4.5 | 5.5 | 4.9 |
| 1987 | 8.1 | 9.8 | 11.0 | 9.7 | 9.6 |
| 1988 | 5.6 | 3.7 | 1.8 | 1.8 | 3.2 |
| 1989 | 5.6 | 6.8 | 7.6 | 10.1 | 7.7 |
| 1990 | 6.4 | 5.7 | 7.0 | 7.3 | 6.5 |
| 1991 | 6.2 | 3.2 | 3.1 | 0.2 | 3.1 |
| 1992 | 0.3 | 2.0 | 0.5 | -1.8 | 0.2 |
| 1993 | -4.1 | -5.0 | -5.6 | -4.6 | -4.7 |
| 1994 | 1.1 | 2.7 | 1.3 | 1.9 | 1.8 |
| 1995 | -3.9 | -4.7 | -3.0 | -3.5 | -3.8 |
| 1996 | 0.7 | -0.2 | 1.1 | 2.3 | 1.0 |
| 1997 | 1.8 | 2.0 | 0.6 | 0.5 | 1.1 |
| 1998 | -0.6 | -2.4 | -2.7 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-9. COMMUNICATION JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 7,500 | 7,400 | 7,500 | 7,500 | 7,500 |
| 1983 | 7,550 | 7,550 | 7,500 | 7,500 | 7,550 |
| 1984 | 7,500 | 7,550 | 7,450 | 7,450 | 7,500 |
| 1985 | 7,450 | 7,300 | 7,350 | 7,300 | 7,350 |
| 1986 | 7,050 | 7,150 | 7,100 | 7,150 | 7,100 |
| 1987 | 7,200 | 7,300 | 7,200 | 7,400 | 7,250 |
| 1988 | 7,650 | 7,500 | 7,500 | 7,550 | 7,550 |
| 1989 | 7,300 | 7,250 | 7,300 | 7,350 | 7,300 |
| 1990 | 7,300 | 7,400 | 7,400 | 7,450 | 7,400 |
| 1991 | 7,500 | 7,400 | 7,300 | 7,200 | 7,350 |
| 1992 | 7,000 | 7,000 | 6,850 | 6,850 | 6,900 |
| 1993 | 6,750 | 6,450 | 6,300 | 6,200 | 6,400 |
| 1994 | 6,350 | 6,200 | 6,200 | 6,350 | 6,250 |
| 1995 | 6,150 | 6,250 | 6,300 | 6,300 | 6,250 |
| 1996 | 6,300 | 6,350 | 6,450 | 6,550 | 6,400 |
| 1997 | 6,500 | 6,550 | 6,600 | 6,400 | 6,500 |
| 1998 | 6,400 | 6,450 | 6,500 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 2.0 | 0.0 | 0.7 | 2.0 | 1.4 |
| 1983 | 0.7 | 2.0 | 0.0 | 0.0 | 0.7 |
| 1984 | -0.7 | 0.0 | -0.7 | -0.7 | -0.7 |
| 1985 | -0.7 | -3.3 | -1.3 | -2.0 | -2.0 |
| 1986 | -5.4 | -2.1 | -3.4 | -2.1 | -3.4 |
| 1987 | 2.1 | 2.1 | 1.4 | 3.5 | 2.1 |
| 1988 | 6.3 | 2.7 | 4.2 | 2.0 | 4.1 |
| 1989 | -4.6 | -3.3 | -2.7 | -2.6 | -3.3 |
| 1990 | 0.0 | 2.1 | 1.4 | 1.4 | 1.4 |
| 1991 | 2.7 | 0.0 | -1.4 | -3.4 | -0.7 |
| 1992 | -6.7 | -5.4 | -6.2 | -4.9 | -6.1 |
| 1993 | -3.6 | -7.9 | -8.0 | -9.5 | -7.2 |
| 1994 | -5.9 | -3.9 | -1.6 | 2.4 | -2.3 |
| 1995 | -3.1 | 0.8 | 1.6 | -0.8 | 0.0 |
| 1996 | 2.4 | 1.6 | 2.4 | 4.0 | 2.4 |
| 1997 | 3.2 | 3.1 | 2.3 | -2.3 | 1.6 |
| 1998 | -1.5 | -1.5 | -1.5 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-10. UTILITIES JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 2,600 | 2,550 | 2,550 | 2,550 | 2,550 |
| 1983 | 2,450 | 2,400 | 2,450 | 2,450 | 2,450 |
| 1984 | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 |
| 1985 | 2,450 | 2,450 | 2,500 | 2,500 | 2,450 |
| 1986 | 2,450 | 2,550 | 2,600 | 2,650 | 2,550 |
| 1987 | 2,600 | 2,650 | 2,650 | 2,650 | 2,650 |
| 1988 | 2,650 | 2,650 | 2,700 | 2,700 | 2,650 |
| 1989 | 2,700 | 2,800 | 2,850 | 2,850 | 2,800 |
| 1990 | 2,950 | 3,050 | 3,000 | 2,950 | 3,000 |
| 1991 | 3,050 | 3,100 | 3,150 | 3,200 | 3,100 |
| 1992 | 3,350 | 3,400 | 3,450 | 3,500 | 3,400 |
| 1993 | 3,500 | 3,550 | 3,600 | 3,550 | 3,550 |
| 1994 | 3,600 | 3,650 | 3,650 | 3,700 | 3,650 |
| 1995 | 3,700 | 3,750 | 3,750 | 3,800 | 3,750 |
| 1996 | 3,750 | 3,750 | 3,650 | 3,600 | 3,700 |
| 1997 | 3,600 | 3,600 | 3,600 | 3,550 | 3,600 |
| 1998 | 3,500 | 3,500 | 3,500 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 0.0 | -1.9 | -1.9 | -3.8 | -1.9 |
| 1983 | -5.8 | -5.9 | -3.9 | -3.9 | -3.9 |
| 1984 | -2.0 | 0.0 | -2.0 | -2.0 | -2.0 |
| 1985 | 2.1 | 2.1 | 4.2 | 4.2 | 2.1 |
| 1986 | 0.0 | 4.1 | 4.0 | 6.0 | 4.1 |
| 1987 | 6.1 | 3.9 | 1.9 | 0.0 | 3.9 |
| 1988 | 1.9 | 0.0 | 1.9 | 1.9 | 0.0 |
| 1989 | 1.9 | 5.7 | 5.6 | 5.6 | 5.7 |
| 1990 | 9.3 | 8.9 | 5.3 | 3.5 | 7.1 |
| 1991 | 3.4 | 1.6 | 5.0 | 8.5 | 3.3 |
| 1992 | 9.8 | 9.7 | 9.5 | 9.4 | 9.7 |
| 1993 | 4.5 | 4.4 | 4.3 | 1.4 | 4.4 |
| 1994 | 2.9 | 2.8 | 1.4 | 4.2 | 2.8 |
| 1995 | 2.8 | 2.7 | 2.7 | 2.7 | 2.7 |
| 1996 | 1.4 | 0.0 | -2.7 | -5.3 | -1.3 |
| 1997 | -4.0 | -4.0 | -1.4 | -1.4 | -2.7 |
| 1998 | -2.8 | -2.8 | -2.8 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-11. RETAIL TRADE JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 86,500 | 86,350 | 86,250 | 86,200 | 86,300 |
| 1983 | 87,100 | 86,550 | 89,450 | 90,750 | 88,450 |
| 1984 | 89,750 | 91,400 | 92,800 | 93,600 | 91,900 |
| 1985 | 95,100 | 95,850 | 96,050 | 97,300 | 96,100 |
| 1986 | 96,600 | 96,450 | 99,350 | 101,250 | 98,400 |
| 1987 | 100,800 | 102,450 | 103,950 | 106,350 | 103,400 |
| 1988 | 104,700 | 106,850 | 107,000 | 108,450 | 106,750 |
| 1989 | 109,000 | 110,050 | 110,550 | 113,250 | 110,700 |
| 1990 | 111,950 | 113,000 | 113,700 | 115,250 | 113,450 |
| 1991 | 113,750 | 112,500 | 114,300 | 114,300 | 113,700 |
| 1992 | 113,600 | 113,150 | 113,700 | 112,450 | 113,250 |
| 1993 | 110,000 | 110,700 | 111,200 | 112,400 | 111,100 |
| 1994 | 110,350 | 110,050 | 111,750 | 114,850 | 111,750 |
| 1995 | 113,650 | 113,200 | 114,500 | 115,700 | 114,250 |
| 1996 | 114,350 | 112,750 | 113,400 | 114,800 | 113,850 |
| 1997 | 113,900 | 113,100 | 113,100 | 114,350 | 113,600 |
| 1998 | 112,450 | 110,950 | 110,550 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -0.3 | 0.3 | -0.6 | -1.4 | -0.5 |
| 1983 | 0.7 | 0.2 | 3.7 | 5.3 | 2.5 |
| 1984 | 3.0 | 5.6 | 3.7 | 3.1 | 3.9 |
| 1985 | 6.0 | 4.9 | 3.5 | 4.0 | 4.6 |
| 1986 | 1.6 | 0.6 | 3.4 | 4.1 | 2.4 |
| 1987 | 4.3 | 6.2 | 4.6 | 5.0 | 5.1 |
| 1988 | 3.9 | 4.3 | 2.9 | 2.0 | 3.2 |
| 1989 | 4.1 | 3.0 | 3.3 | 4.4 | 3.7 |
| 1990 | 2.7 | 2.7 | 2.8 | 1.8 | 2.5 |
| 1991 | 1.6 | -0.4 | 0.5 | -0.8 | 0.2 |
| 1992 | -0.1 | 0.6 | -0.5 | -1.6 | -0.4 |
| 1993 | -3.2 | -2.2 | -2.2 | 0.0 | -1.9 |
| 1994 | 0.3 | -0.6 | 0.5 | 2.2 | 0.6 |
| 1995 | 3.0 | 2.9 | 2.5 | 0.7 | 2.2 |
| 1996 | 0.6 | -0.4 | -1.0 | -0.8 | -0.4 |
| 1997 | -0.4 | 0.3 | -0.3 | -0.4 | -0.2 |
| 1998 | -1.2 | -1.9 | -2.3 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-12. WHOLESALE TRADE JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 18,750 | 18,750 | 18,450 | 18,100 | 18,500 |
| 1983 | 18,250 | 18,200 | 18,450 | 18,700 | 18,400 |
| 1984 | 18,700 | 19,050 | 19,000 | 19,100 | 18,950 |
| 1985 | 19,250 | 19,550 | 19,750 | 19,700 | 19,550 |
| 1986 | 19,150 | 19,400 | 19,700 | 19,950 | 19,550 |
| 1987 | 19,950 | 20,350 | 20,450 | 20,700 | 20,400 |
| 1988 | 20,200 | 20,550 | 21,050 | 21,100 | 20,750 |
| 1989 | 21,450 | 21,850 | 21,950 | 22,150 | 21,850 |
| 1990 | 21,950 | 22,300 | 22,850 | 22,950 | 22,500 |
| 1991 | 22,700 | 22,600 | 22,700 | 22,900 | 22,750 |
| 1992 | 22,700 | 22,600 | 22,400 | 22,400 | 22,500 |
| 1993 | 21,950 | 22,100 | 21,900 | 21,800 | 21,950 |
| 1994 | 21,500 | 21,550 | 21,550 | 21,500 | 21,550 |
| 1995 | 21,600 | 21,500 | 21,500 | 21,600 | 21,550 |
| 1996 | 21,500 | 21,350 | 21,400 | 21,250 | 21,400 |
| 1997 | 20,750 | 20,900 | 21,100 | 21,000 | 20,950 |
| 1998 | 20,950 | 20,850 | 20,850 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 0.8 | 0.8 | -1.6 | -3.7 | -1.1 |
| 1983 | -2.7 | -2.9 | 0.0 | 3.3 | -0.5 |
| 1984 | 2.5 | 4.7 | 3.0 | 2.1 | 3.0 |
| 1985 | 2.9 | 2.6 | 3.9 | 3.1 | 3.2 |
| 1986 | -0.5 | -0.8 | -0.3 | 1.3 | 0.0 |
| 1987 | 4.2 | 4.9 | 3.8 | 3.8 | 4.3 |
| 1988 | 1.3 | 1.0 | 2.9 | 1.9 | 1.7 |
| 1989 | 6.2 | 6.3 | 4.3 | 5.0 | 5.3 |
| 1990 | 2.3 | 2.1 | 4.1 | 3.6 | 3.0 |
| 1991 | 3.4 | 1.3 | -0.7 | -0.2 | 1.1 |
| 1992 | 0.0 | 0.0 | -1.3 | -2.2 | -1.1 |
| 1993 | -3.3 | -2.2 | -2.2 | -2.7 | -2.4 |
| 1994 | -2.1 | -2.5 | -1.6 | -1.4 | -1.8 |
| 1995 | 0.5 | -0.2 | -0.2 | 0.5 | 0.0 |
| 1996 | -0.5 | -0.7 | -0.5 | -1.6 | -0.7 |
| 1997 | -3.5 | -2.1 | -1.4 | -1.2 | -2.1 |
| 1998 | 1.0 | -0.2 | -1.2 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-13. FINANCE, INSURANCE AND REAL ESTATE JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 31,950 | 31,650 | 31,300 | 31,200 | 31,500 |
| 1983 | 31,650 | 31,700 | 32,200 | 32,000 | 31,900 |
| 1984 | 31,950 | 31,950 | 31,850 | 31,700 | 31,850 |
| 1985 | 31,500 | 31,900 | 32,050 | 32,200 | 31,900 |
| 1986 | 32,600 | 32,750 | 33,450 | 33,850 | 33,150 |
| 1987 | 33,500 | 33,750 | 33,800 | 33,800 | 33,700 |
| 1988 | 34,000 | 34,300 | 34,650 | 34,850 | 34,450 |
| 1989 | 34,650 | 34,950 | 35,200 | 36,200 | 35,250 |
| 1990 | 35,900 | 36,800 | 37,250 | 37,300 | 36,800 |
| 1991 | 37,250 | 37,250 | 37,500 | 37,500 | 37,400 |
| 1992 | 37,150 | 37,750 | 38,250 | 38,550 | 37,950 |
| 1993 | 38,300 | 38,800 | 39,500 | 39,200 | 38,950 |
| 1994 | 38,700 | 38,550 | 38,500 | 37,900 | 38,400 |
| 1995 | 37,200 | 37,000 | 37,250 | 37,100 | 37,150 |
| 1996 | 36,950 | 36,850 | 37,050 | 36,750 | 36,900 |
| 1997 | 36,300 | 36,100 | 36,150 | 35,800 | 36,100 |
| 1998 | 35,350 | 35,050 | 35,100 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 0.8 | -0.2 | -1.9 | -1.0 | -0.6 |
| 1983 | -0.9 | 0.2 | 2.9 | 2.6 | 1.3 |
| 1984 | 0.9 | 0.8 | -1.1 | -0.9 | -0.2 |
| 1985 | -1.4 | -0.2 | 0.6 | 1.6 | 0.2 |
| 1986 | 3.5 | 2.7 | 4.4 | 5.1 | 3.9 |
| 1987 | 2.8 | 3.1 | 1.0 | -0.1 | 1.7 |
| 1988 | 1.5 | 1.6 | 2.5 | 3.1 | 2.2 |
| 1989 | 1.9 | 1.9 | 1.6 | 3.9 | 2.3 |
| 1990 | 3.6 | 5.3 | 5.8 | 3.0 | 4.4 |
| 1991 | 3.8 | 1.2 | 0.7 | 0.5 | 1.6 |
| 1992 | -0.3 | 1.3 | 2.0 | 2.8 | 1.5 |
| 1993 | 3.1 | 2.8 | 3.3 | 1.7 | 2.6 |
| 1994 | 1.0 | -0.6 | -2.5 | -3.3 | -1.4 |
| 1995 | -3.9 | -4.0 | -3.2 | -2.1 | -3.3 |
| 1996 | -0.7 | -0.4 | -0.5 | -0.9 | -0.7 |
| 1997 | -1.8 | -2.0 | -2.4 | -2.6 | -2.2 |
| 1998 | -2.6 | -2.9 | -2.9 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-14. SERVICES AND MISCELLANEOUS JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 102,050 | 100,950 | 100,450 | 101,450 | 101,200 |
| 1983 | 103,950 | 103,800 | 105,650 | 106,350 | 104,950 |
| 1984 | 107,550 | 108,700 | 107,100 | 108,500 | 107,950 |
| 1985 | 110,650 | 110,500 | 113,750 | 115,650 | 112,650 |
| 1986 | 117,350 | 118,400 | 118,800 | 120,400 | 118,750 |
| 1987 | 123,600 | 125,150 | 126,750 | 130,550 | 126,500 |
| 1988 | 130,800 | 131,350 | 133,600 | 137,250 | 133,250 |
| 1989 | 141,450 | 143,450 | 146,650 | 150,050 | 145,400 |
| 1990 | 152,400 | 153,300 | 154,900 | 156,950 | 154,400 |
| 1991 | 157,400 | 157,100 | 160,150 | 161,750 | 159,100 |
| 1992 | 162,900 | 163,100 | 164,850 | 163,400 | 163,550 |
| 1993 | 163,100 | 163,150 | 161,900 | 162,100 | 162,550 |
| 1994 | 162,600 | 163,400 | 164,250 | 165,250 | 163,900 |
| 1995 | 165,050 | 164,600 | 164,100 | 164,350 | 164,500 |
| 1996 | 165,350 | 165,650 | 167,150 | 168,550 | 166,650 |
| 1997 | 168,650 | 168,600 | 169,500 | 170,000 | 169,200 |
| 1998 | 169,050 | 169,450 | 168,800 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -1.2 | -1.8 | -0.1 | 0.4 | -0.7 |
| 1983 | 1.9 | 2.8 | 5.2 | 4.8 | 3.7 |
| 1984 | 3.5 | 4.7 | 1.4 | 2.0 | 2.9 |
| 1985 | 2.9 | 1.7 | 6.2 | 6.6 | 4.4 |
| 1986 | 6.1 | 7.1 | 4.4 | 4.1 | 5.4 |
| 1987 | 5.3 | 5.7 | 6.7 | 8.4 | 6.5 |
| 1988 | 5.8 | 5.0 | 5.4 | 5.1 | 5.3 |
| 1989 | 8.1 | 9.2 | 9.8 | 9.3 | 9.1 |
| 1990 | 7.7 | 6.9 | 5.6 | 4.6 | 6.2 |
| 1991 | 3.3 | 2.5 | 3.4 | 3.1 | 3.0 |
| 1992 | 3.5 | 3.8 | 2.9 | 1.0 | 2.8 |
| 1993 | 0.1 | 0.0 | -1.8 | -0.8 | -0.6 |
| 1994 | -0.3 | 0.2 | 1.5 | 1.9 | 0.8 |
| 1995 | 1.5 | 0.7 | -0.1 | -0.5 | 0.4 |
| 1996 | 0.2 | 0.6 | 1.9 | 2.6 | 1.3 |
| 1997 | 2.0 | 1.8 | 1.4 | 0.9 | 1.5 |
| 1998 | 0.2 | 0.5 | -0.4 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-15. HOTEL JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 26,700 | 26,650 | 26,300 | 26,400 | 26,500 |
| 1983 | 26,600 | 27,000 | 27,150 | 27,300 | 27,000 |
| 1984 | 28,250 | 28,450 | 27,900 | 28,500 | 28,250 |
| 1985 | 29,400 | 28,850 | 28,750 | 28,900 | 29,000 |
| 1986 | 29,100 | 29,150 | 29,550 | 29,150 | 29,250 |
| 1987 | 30,500 | 30,500 | 31,200 | 32,800 | 31,250 |
| 1988 | 33,650 | 33,550 | 34,350 | 35,750 | 34,350 |
| 1989 | 36,850 | 36,650 | 37,100 | 37,500 | 37,000 |
| 1990 | 37,550 | 38,450 | 38,800 | 40,200 | 38,750 |
| 1991 | 40,500 | 39,800 | 41,300 | 41,550 | 40,800 |
| 1992 | 41,500 | 41,350 | 40,800 | 40,250 | 40,950 |
| 1993 | 38,650 | 38,100 | 37,650 | 37,550 | 38,000 |
| 1994 | 37,700 | 37,850 | 38,100 | 38,350 | 38,000 |
| 1995 | 38,150 | 37,500 | 37,650 | 37,700 | 37,750 |
| 1996 | 38,200 | 37,950 | 38,550 | 38,650 | 38,350 |
| 1997 | 39,100 | 38,200 | 38,200 | 38,300 | 38,450 |
| 1998 | 38,350 | 37,650 | 37,250 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 7.0 | 8.6 | 6.7 | 5.4 | 6.9 |
| 1983 | -0.4 | 1.3 | 3.2 | 3.4 | 1.9 |
| 1984 | 6.2 | 5.4 | 2.8 | 4.4 | 4.6 |
| 1985 | 4.1 | 1.4 | 3.0 | 1.4 | 2.7 |
| 1986 | -1.0 | 1.0 | 2.8 | 0.9 | 0.9 |
| 1987 | 4.8 | 4.6 | 5.6 | 12.5 | 6.8 |
| 1988 | 10.3 | 10.0 | 10.1 | 9.0 | 9.9 |
| 1989 | 9.5 | 9.2 | 8.0 | 4.9 | 7.7 |
| 1990 | 1.9 | 4.9 | 4.6 | 7.2 | 4.7 |
| 1991 | 7.9 | 3.5 | 6.4 | 3.4 | 5.3 |
| 1992 | 2.5 | 3.9 | -1.2 | -3.1 | 0.4 |
| 1993 | -6.9 | -7.9 | -7.7 | -6.7 | -7.2 |
| 1994 | -2.5 | -0.7 | 1.2 | 2.1 | 0.0 |
| 1995 | 1.2 | -0.9 | -1.2 | -1.7 | -0.7 |
| 1996 | 0.1 | 1.2 | 2.4 | 2.5 | 1.6 |
| 1997 | 2.4 | 0.7 | -0.9 | -0.9 | 0.3 |
| 1998 | -1.9 | -1.4 | -2.5 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-16. FEDERAL GOVERNMENT JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 30,850 | 31,550 | 31,650 | 32,050 | 31,500 |
| 1983 | 32,050 | 32,250 | 32,100 | 32,050 | 32,100 |
| 1984 | 31,750 | 31,950 | 32,200 | 32,550 | 32,100 |
| 1985 | 32,300 | 32,350 | 32,400 | 32,500 | 32,400 |
| 1986 | 32,100 | 32,000 | 32,000 | 32,250 | 32,100 |
| 1987 | 32,050 | 32,700 | 32,950 | 33,400 | 32,800 |
| 1988 | 33,750 | 33,700 | 33,750 | 34,100 | 33,800 |
| 1989 | 33,850 | 33,950 | 33,950 | 34,200 | 34,000 |
| 1990 | 33,850 | 34,950 | 34,050 | 33,700 | 34,150 |
| 1991 | 33,400 | 33,500 | 34,450 | 34,100 | 33,850 |
| 1992 | 33,650 | 33,500 | 33,050 | 32,850 | 33,250 |
| 1993 | 31,800 | 32,000 | 31,900 | 31,650 | 31,800 |
| 1994 | 31,350 | 31,550 | 31,250 | 30,950 | 31,250 |
| 1995 | 31,000 | 31,200 | 31,150 | 30,850 | 31,050 |
| 1996 | 31,300 | 30,800 | 31,550 | 30,850 | 31,100 |
| 1997 | 30,550 | 30,700 | 30,750 | 30,650 | 30,650 |
| 1998 | 30,350 | 30,400 | 30,350 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 3.4 | 4.6 | 3.8 | 3.6 | 3.8 |
| 1983 | 3.9 | 2.2 | 1.4 | 0.0 | 1.9 |
| 1984 | -0.9 | -0.9 | 0.3 | 1.6 | 0.0 |
| 1985 | 1.7 | 1.3 | 0.6 | -0.2 | 0.9 |
| 1986 | -0.6 | -1.1 | -1.2 | -0.8 | -0.9 |
| 1987 | -0.2 | 2.2 | 3.0 | 3.6 | 2.2 |
| 1988 | 5.3 | 3.1 | 2.4 | 2.1 | 3.0 |
| 1989 | 0.3 | 0.7 | 0.6 | 0.3 | 0.6 |
| 1990 | 0.0 | 2.9 | 0.3 | -1.5 | 0.4 |
| 1991 | -1.3 | -4.1 | 1.2 | 1.2 | -0.9 |
| 1992 | 0.7 | 0.0 | -4.1 | -3.7 | -1.8 |
| 1993 | -5.5 | -4.5 | -3.5 | -3.7 | -4.4 |
| 1994 | -1.4 | -1.4 | -2.0 | -2.2 | -1.7 |
| 1995 | -1.1 | -1.1 | -0.3 | -0.3 | -0.6 |
| 1996 | 1.0 | -1.3 | 1.3 | 0.0 | 0.2 |
| 1997 | -2.4 | -0.3 | -2.5 | -0.6 | -1.4 |
| 1998 | -0.7 | -1.0 | -1.3 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-17. STATE GOVERNMENT JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 46,450 | 47,300 | 41,800 | 47,000 | 45,650 |
| 1983 | 47,150 | 47,550 | 41,450 | 47,350 | 45,900 |
| 1984 | 47,800 | 48,250 | 42,300 | 47,800 | 46,550 |
| 1985 | 48,500 | 48,850 | 43,350 | 48,900 | 47,400 |
| 1986 | 49,750 | 50,150 | 44,550 | 50,000 | 48,600 |
| 1987 | 50,950 | 51,700 | 45,450 | 51,400 | 49,900 |
| 1988 | 52,400 | 53,500 | 47,750 | 53,750 | 51,850 |
| 1989 | 54,300 | 55,300 | 49,000 | 55,650 | 53,550 |
| 1990 | 56,900 | 59,900 | 51,300 | 60,150 | 57,050 |
| 1991 | 61,800 | 62,850 | 53,450 | 63,000 | 60,250 |
| 1992 | 64,350 | 65,650 | 55,550 | 64,750 | 62,600 |
| 1993 | 66,050 | 68,050 | 56,800 | 66,100 | 64,250 |
| 1994 | 66,500 | 68,150 | 58,050 | 67,250 | 65,000 |
| 1995 | 67,550 | 68,650 | 55,800 | 63,750 | 63,950 |
| 1996 | 64,300 | 66,850 | 55,850 | 64,300 | 62,800 |
| 1997 | 65,850 | 67,350 | 58,000 | 65,800 | 64,250 |
| 1998 | 66,450 | 67,750 | 59,350 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -0.3 | 0.5 | 1.7 | 1.5 | 0.9 |
| 1983 | 1.5 | 0.5 | -0.8 | 0.7 | 0.5 |
| 1984 | 1.4 | 1.5 | 2.1 | 1.0 | 1.4 |
| 1985 | 1.5 | 1.2 | 2.5 | 2.3 | 1.8 |
| 1986 | 2.6 | 2.7 | 2.8 | 2.2 | 2.5 |
| 1987 | 2.4 | 3.1 | 2.0 | 2.8 | 2.7 |
| 1988 | 2.8 | 3.5 | 5.1 | 4.6 | 3.9 |
| 1989 | 3.6 | 3.4 | 2.6 | 3.5 | 3.3 |
| 1990 | 4.8 | 8.3 | 4.7 | 8.1 | 6.5 |
| 1991 | 8.6 | 4.9 | 4.2 | 4.7 | 5.6 |
| 1992 | 4.1 | 4.5 | 3.9 | 2.8 | 3.9 |
| 1993 | 2.6 | 3.7 | 2.3 | 2.1 | 2.6 |
| 1994 | 0.7 | 0.1 | 2.2 | 1.7 | 1.2 |
| 1995 | 1.6 | 0.7 | -3.9 | -5.2 | -1.6 |
| 1996 | -4.8 | -2.6 | 0.1 | 0.9 | -1.8 |
| 1997 | 2.4 | 0.7 | 3.8 | 2.3 | 2.3 |
| 1998 | 0.9 | 0.6 | 2.3 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-18. LOCAL GOVERNMENT JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 12,250 | 12,550 | 15,200 | 12,650 | 13,150 |
| 1983 | 12,450 | 12,550 | 15,500 | 12,600 | 13,300 |
| 1984 | 12,550 | 12,650 | 14,700 | 12,850 | 13,200 |
| 1985 | 12,700 | 12,650 | 16,000 | 12,700 | 13,500 |
| 1986 | 12,550 | 12,650 | 14,400 | 12,900 | 13,150 |
| 1987 | 12,800 | 13,000 | 14,450 | 13,400 | 13,400 |
| 1988 | 13,400 | 13,550 | 14,750 | 13,700 | 13,850 |
| 1989 | 13,600 | 13,800 | 15,050 | 13,850 | 14,100 |
| 1990 | 13,900 | 14,050 | 15,250 | 14,350 | 14,400 |
| 1991 | 14,350 | 14,500 | 15,550 | 14,700 | 14,750 |
| 1992 | 14,700 | 14,850 | 16,150 | 15,350 | 15,250 |
| 1993 | 15,200 | 15,250 | 16,200 | 15,450 | 15,500 |
| 1994 | 15,350 | 15,400 | 16,300 | 15,400 | 15,600 |
| 1995 | 16,250 | 16,250 | 17,050 | 16,200 | 16,450 |
| 1996 | 16,300 | 16,350 | 17,450 | 16,450 | 16,600 |
| 1997 | 16,400 | 16,450 | 17,750 | 16,500 | 16,750 |
| 1998 | 16,450 | 16,550 | 18,100 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -4.7 | 0.0 | -2.6 | 2.0 | -1.5 |
| 1983 | 1.6 | 0.0 | 2.0 | -0.4 | 1.1 |
| 1984 | 0.8 | 0.8 | -5.2 | 2.0 | -0.8 |
| 1985 | 1.2 | 0.0 | 8.8 | -1.2 | 2.3 |
| 1986 | -1.2 | 0.0 | -10.0 | 1.6 | -2.6 |
| 1987 | 2.0 | 2.8 | 0.3 | 3.9 | 1.9 |
| 1988 | 4.7 | 4.2 | 2.1 | 2.2 | 3.4 |
| 1989 | 1.5 | 1.8 | 2.0 | 1.1 | 1.8 |
| 1990 | 2.2 | 1.8 | 1.3 | 3.6 | 2.1 |
| 1991 | 3.2 | 3.2 | 2.0 | 2.4 | 2.4 |
| 1992 | 2.4 | 2.4 | 3.9 | 4.4 | 3.4 |
| 1993 | 3.4 | 2.7 | 0.3 | 0.7 | 1.6 |
| 1994 | 1.0 | 1.0 | 0.6 | -0.3 | 0.6 |
| 1995 | 5.9 | 5.5 | 4.6 | 5.2 | 5.4 |
| 1996 | 0.3 | 0.6 | 2.3 | 1.5 | 0.9 |
| 1997 | 0.6 | 0.6 | 1.7 | 0.3 | 0.9 |
| 1998 | 0.3 | 0.6 | 2.0 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-19. AGRICULTURE WAGE AND SALARY JOBS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 9,850 | 11,400 | 12,500 | 11,350 | 11,300 |
| 1983 | 9,900 | 11,300 | 12,300 | 11,200 | 11,200 |
| 1984 | 9,650 | 11,050 | 11,950 | 10,600 | 10,800 |
| 1985 | 9,800 | 10,500 | 11,250 | 10,150 | 10,400 |
| 1986 | 9,850 | 9,950 | 10,800 | 10,000 | 10,150 |
| 1987 | 10,000 | 10,500 | 11,300 | 10,350 | 10,550 |
| 1988 | 9,750 | 9,700 | 10,500 | 9,950 | 10,000 |
| 1989 | 9,250 | 9,700 | 10,150 | 9,450 | 9,650 |
| 1990 | 8,850 | 9,350 | 10,400 | 9,550 | 9,550 |
| 1991 | 8,800 | 9,350 | 10,150 | 9,900 | 9,550 |
| 1992 | 9,200 | 9,350 | 9,650 | 9,000 | 9,300 |
| 1993 | 8,750 | 8,350 | 8,800 | 8,350 | 8,550 |
| 1994 | 8,000 | 8,000 | 8,450 | 7,550 | 8,000 |
| 1995 | 7,100 | 6,950 | 7,350 | 7,750 | 7,300 |
| 1996 | 7,200 | 7,200 | 7,550 | 7,600 | 7,400 |
| 1997 | 6,800 | 6,800 | 7,500 | 7,700 | 7,200 |
| 1998 | 7,300 | 7,350 | 8,000 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -1.0 | -5.0 | -2.0 | 0.4 | -2.2 |
| 1983 | 0.5 | -0.9 | -1.6 | -1.3 | -0.9 |
| 1984 | -2.5 | -2.2 | -2.8 | -5.4 | -3.6 |
| 1985 | 1.6 | -5.0 | -5.9 | -4.2 | -3.7 |
| 1986 | 0.5 | -5.2 | -4.0 | -1.5 | -2.4 |
| 1987 | 1.5 | 5.5 | 4.6 | 3.5 | 3.9 |
| 1988 | -2.5 | -7.6 | -7.1 | -3.9 | -5.2 |
| 1989 | -5.1 | 0.0 | -3.3 | -5.0 | -3.5 |
| 1990 | -4.3 | -3.6 | 2.5 | 1.1 | -1.0 |
| 1991 | -0.6 | 0.0 | -2.4 | 3.7 | 0.0 |
| 1992 | 4.5 | 0.0 | -4.9 | -9.1 | -2.6 |
| 1993 | -4.9 | -10.7 | -8.8 | -7.2 | -8.1 |
| 1994 | -8.6 | -4.2 | -4.0 | -9.6 | -6.4 |
| 1995 | -11.3 | -13.1 | -13.0 | 2.6 | -8.8 |
| 1996 | 1.4 | 3.6 | 2.7 | -1.9 | 1.4 |
| 1997 | -5.6 | -5.6 | -0.7 | 1.3 | -2.7 |
| 1998 | 7.4 | 8.1 | 6.7 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor & Industrial Relations and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table A-20. INITIAL AGENT CLAIMS FOR UNEMPLOYMENT

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|--|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Jobs | | | | | |
| 1982 | 1,176 | 1,027 | 1,366 | 1,324 | 4,893 |
| 1983 | 1,413 | 1,136 | 1,058 | 1,094 | 4,701 |
| 1984 | 1,046 | 933 | 1,097 | 1,178 | 4,254 |
| 1985 | 1,018 | 857 | 1,050 | 1,115 | 4,040 |
| 1986 | 1,031 | 914 | 1,061 | 977 | 3,983 |
| 1987 | 897 | 700 | 933 | 817 | 3,347 |
| 1988 | 924 | 645 | 852 | 740 | 3,161 |
| 1989 | 692 | 659 | 718 | 814 | 2,883 |
| 1990 | 819 | 670 | 756 | 847 | 3,092 |
| 1991 | 839 | 723 | 1,047 | 994 | 3,603 |
| 1992 | 1,195 | 1,104 | 1,305 | 1,304 | 4,908 |
| 1993 | 1,205 | 1,135 | 1,199 | 1,225 | 4,764 |
| 1994 | 1,105 | 998 | 1,253 | 1,137 | 4,493 |
| 1995 | 1,054 | 1,013 | 1,082 | 1,095 | 4,244 |
| 1996 | 1,057 | 837 | 957 | 654 | 3,505 |
| 1997 | 589 | 524 | 587 | 475 | 2,175 |
| 1998 | 419 | 400 | 436 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -3.4 | 2.4 | 11.5 | 30.8 | 9.8 |
| 1983 | 20.2 | 10.6 | -22.5 | -17.4 | -3.9 |
| 1984 | -26.0 | -17.9 | 3.7 | 7.7 | -9.5 |
| 1985 | -2.7 | -8.1 | -4.3 | -5.3 | -5.0 |
| 1986 | 1.3 | 6.7 | 1.0 | -12.4 | -1.4 |
| 1987 | -13.0 | -23.4 | -12.1 | -16.4 | -16.0 |
| 1988 | 3.0 | -7.9 | -8.7 | -9.4 | -5.6 |
| 1989 | -25.1 | 2.2 | -15.7 | 10.0 | -8.8 |
| 1990 | 18.4 | 1.7 | 5.3 | 4.1 | 7.2 |
| 1991 | 2.4 | 7.9 | 38.5 | 17.4 | 16.5 |
| 1992 | 42.4 | 52.7 | 24.6 | 31.2 | 36.2 |
| 1993 | 0.8 | 2.8 | -8.1 | -6.1 | -2.9 |
| 1994 | -8.3 | -12.1 | 4.5 | -7.2 | -5.7 |
| 1995 | -4.6 | 1.5 | -13.6 | -3.7 | -5.5 |
| 1996 | 0.3 | -17.4 | -11.6 | -40.3 | -17.4 |
| 1997 | -44.3 | -37.4 | -38.7 | -27.4 | -37.9 |
| 1998 | -28.9 | -23.7 | -25.7 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Research Section.

Table A-21. INITIAL LIABLE CLAIMS FOR UNEMPLOYMENT

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Number of Claims | | | | | |
| 1982 | 1,375 | 1,258 | 1,657 | 1,504 | 5,794 |
| 1983 | 1,235 | 1,095 | 1,396 | 1,120 | 4,846 |
| 1984 | 1,111 | 1,003 | 1,338 | 1,122 | 4,574 |
| 1985 | 1,182 | 1,045 | 1,350 | 968 | 4,545 |
| 1986 | 863 | 1,046 | 1,271 | 1,027 | 4,207 |
| 1987 | 1,022 | 1,011 | 1,230 | 1,075 | 4,338 |
| 1988 | 1,177 | 1,083 | 1,249 | 1,057 | 4,566 |
| 1989 | 1,046 | 1,011 | 1,233 | 1,193 | 4,483 |
| 1990 | 1,324 | 1,298 | 1,677 | 1,590 | 5,889 |
| 1991 | 1,680 | 1,731 | 2,248 | 2,229 | 7,888 |
| 1992 | 2,447 | 2,518 | 3,113 | 2,812 | 10,890 |
| 1993 | 2,673 | 2,595 | 3,054 | 2,728 | 11,050 |
| 1994 | 2,748 | 2,492 | 3,378 | 3,039 | 11,657 |
| 1995 | 2,977 | 2,824 | 3,288 | 2,760 | 11,849 |
| 1996 | 2,454 | 2,486 | 2,787 | 2,335 | 10,062 |
| 1997 | 2,178 | 2,157 | 2,423 | 1,321 | 8,079 |
| 1998 | 1,200 | 1,063 | 1,470 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -12.0 | -9.9 | -6.3 | 5.8 | -5.8 |
| 1983 | -10.2 | -13.0 | -15.8 | -25.5 | -16.4 |
| 1984 | -10.0 | -8.4 | -4.2 | 0.2 | -5.6 |
| 1985 | 6.4 | 4.2 | 0.9 | -13.7 | -0.6 |
| 1986 | -27.0 | 0.1 | -5.9 | 6.1 | -7.4 |
| 1987 | 18.4 | -3.3 | -3.2 | 4.7 | 3.1 |
| 1988 | 15.2 | 7.1 | 1.5 | -1.7 | 5.3 |
| 1989 | -11.1 | -6.6 | -1.3 | 12.9 | -1.8 |
| 1990 | 26.6 | 28.4 | 36.0 | 33.3 | 31.4 |
| 1991 | 26.9 | 33.4 | 34.0 | 40.2 | 33.9 |
| 1992 | 45.7 | 45.5 | 38.5 | 26.2 | 38.1 |
| 1993 | 9.2 | 3.1 | -1.9 | -3.0 | 1.5 |
| 1994 | 2.8 | -4.0 | 10.6 | 11.4 | 5.5 |
| 1995 | 8.3 | 13.3 | -2.7 | -9.2 | 1.6 |
| 1996 | -17.6 | -12.0 | -15.2 | -15.4 | -15.1 |
| 1997 | -11.2 | -13.2 | -13.1 | -43.4 | -19.7 |
| 1998 | -44.9 | -50.7 | -39.3 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Research Section.

B. INCOME AND PRICES

According to the U.S. Bureau of Economic Analysis (BEA), Hawaii personal income growth continued to moderate in the second quarter of 1998 (the latest data available). Wages and salaries still contributed the most to growth, but transfer payments were the second largest source of growth.

Personal income grew at a seasonally adjusted annual rate of 2.0 percent between the second quarters of 1997 and 1998 (Table B-2). This was the slowest rate of growth since the first quarter of 1997. Yet it remained above the growth rates experienced throughout 1996.

Most of the growth in personal income came from the 1.4 percent growth in wages and salaries over the period (Table B-3). Wages and salaries comprise 57 percent of personal income. The rate of growth in wages and salaries was significantly lower than has been observed in the last five quarters.

On top of this slower growth in wages and salaries, other labor income (consisting primarily of employers' contributions to benefit plans) declined from the second quarter of 1997 through the second quarter of 1998 at a 1.4 percent rate (Table B-4). This component of labor income has been falling steadily since the first quarter of 1995.

The second largest source of growth in personal income came from transfer payments; such payments expanded at a rate of 4.3 percent in the year between the second quarters of 1997 and 1998.

Proprietors' income grew by a strong 5.5 percent over the period (Table B-5). This growth is consistent with the suggestion that

the number of self-employed may be expanding as a share of Hawaii's workforce. Proprietors' income also grew at a rapid rate in the first quarter of the year.

In October 1998, BEA revised its methodology for calculating the dividends, interest, and rent component of personal income. The revision excluded capital gains distributions from the income estimates. This had the effect of lowering estimated rates of growth of this component by between 1 and 4 percentage points in 1997 and 1998. As a consequence, the rate of annual growth in dividends, interest, and rent for the second quarter was a relatively small 1.2 percent (Table B-6).

Looking across the economy, most of the growth in personal income in recent quarters came from the government, rather than private, sector. This continued in the second quarter as government earnings grew by 3.5 percent over the second quarter of 1997 while private earnings grew by 1.0 percent (Table B-1). Most of the government earnings growth came from state and local government, but this reversed a trend in recent years of relatively faster growth from the federal civilian sector.

In the private sector, the fastest growth occurred in agricultural services, forestry, and fishing (5.8 percent), and services (3.6 percent) (Table B-1). Growth also occurred in wholesale and retail trade. The sectors with largest declines in earnings included mining (-5.9 percent), manufacturing (-2.5 percent), and construction (-2.4 percent). Transportation and utilities and finance, insurance and real estate also experienced earnings declines.

Table B-1. PERSONAL INCOME FOR HAWAII BY MAJOR SOURCES

[In Millions of Dollars at Seasonally Adjusted Annual Rates]

| Series | Second Quarter 1997 | First Half 1997 | First Quarter 1998 | Second Quarter 1998 | First Half 1998 | Percent Change to Second Quarter 1998 from | |
|-------------------------------------|---------------------------|--------------------|--------------------------|---------------------------|--------------------|--|--------------------------|
| | | | | | | Second Quarter 1997 | First Quarter 1998 |
| PERSONAL INCOME | 30,390 | 30,276 | 30,864 | 31,008 | 30,936 | 2.0 | 0.5 |
| Earnings By Place of Work | 21,597 | 21,503 | 21,887 | 21,950 | 21,919 | 1.6 | 0.3 |
| Wage and salary disbursements | 17,313 | 17,240 | 17,505 | 17,551 | 17,528 | 1.4 | 0.3 |
| Other labor income | 1,717 | 1,716 | 1,696 | 1,693 | 1,695 | -1.4 | -0.2 |
| Proprietors' income | 2,567 | 2,547 | 2,686 | 2,707 | 2,697 | 5.5 | 0.8 |
| Farm proprietors' income | 4 | 4 | 3 | 3 | 3 | -25.0 | 0.0 |
| Nonfarm proprietors' income | 2,563 | 2,543 | 2,682 | 2,704 | 2,693 | 5.5 | 0.8 |
| Dividends, interest, and rent | 5,077 | 5,076 | 5,095 | 5,137 | 5,116 | 1.2 | 0.8 |
| Transfer payments | 5,125 | 5,102 | 5,306 | 5,347 | 5,327 | 4.3 | 0.8 |
| Less: Pers. cont. for social insur. | 1,410 | 1,406 | 1,424 | 1,426 | 1,425 | 1.1 | 0.1 |
| Earnings By Industry | 21,597 | 21,503 | 21,887 | 21,950 | 21,919 | 1.6 | 0.3 |
| Farm Earnings | 157 | 159 | 160 | 166 | 163 | 5.7 | 3.8 |
| Nonfarm Earnings | 21,440 | 21,345 | 21,727 | 21,785 | 21,756 | 1.6 | 0.3 |
| Private Earnings | 16,008 | 15,933 | 16,085 | 16,163 | 16,124 | 1.0 | 0.5 |
| Ag. serv., forestry, fishing & oth | 139 | 139 | 145 | 147 | 146 | 5.8 | 1.4 |
| Mining | 17 | 17 | 16 | 16 | 16 | -5.9 | 0.0 |
| Construction | 1,389 | 1,402 | 1,362 | 1,356 | 1,359 | -2.4 | -0.4 |
| Manufacturing | 794 | 787 | 812 | 774 | 793 | -2.5 | -4.7 |
| Transport. and public utilities | 1,813 | 1,808 | 1,804 | 1,778 | 1,791 | -1.9 | -1.4 |
| Wholesale trade | 804 | 792 | 804 | 808 | 806 | 0.5 | 0.5 |
| Retail trade | 2,652 | 2,648 | 2,654 | 2,668 | 2,661 | 0.6 | 0.5 |
| Finance, insur., and real estate | 1,789 | 1,759 | 1,742 | 1,770 | 1,756 | -1.1 | 1.6 |
| Services | 6,610 | 6,582 | 6,747 | 6,847 | 6,797 | 3.6 | 1.5 |
| Gov't and gov't enterprises | 5,432 | 5,412 | 5,642 | 5,622 | 5,632 | 3.5 | -0.4 |
| Federal, civilian | 1,299 | 1,288 | 1,355 | 1,362 | 1,359 | 4.8 | 0.5 |
| Military | 1,566 | 1,567 | 1,585 | 1,547 | 1,566 | -1.2 | -2.4 |
| State and local | 2,566 | 2,557 | 2,702 | 2,713 | 2,708 | 5.7 | 0.4 |

Data have been revised.

Sources: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table B-2. PERSONAL INCOME

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual Average</i> |
|--|----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| In Millions of Dollars at Seasonally Adjusted Annual Rates | | | | | |
| 1982 | 11,697 | 12,004 | 12,204 | 12,280 | 12,046 |
| 1983 | 12,875 | 13,088 | 13,215 | 13,595 | 13,193 |
| 1984 | 13,706 | 14,079 | 14,303 | 14,405 | 14,123 |
| 1985 | 14,771 | 14,933 | 15,146 | 15,429 | 15,070 |
| 1986 | 15,752 | 15,942 | 16,264 | 16,515 | 16,118 |
| 1987 | 16,785 | 17,132 | 17,502 | 18,047 | 17,367 |
| 1988 | 18,550 | 19,055 | 19,349 | 19,993 | 19,237 |
| 1989 | 20,463 | 20,978 | 21,425 | 22,053 | 21,230 |
| 1990 | 22,913 | 23,669 | 24,338 | 24,906 | 23,957 |
| 1991 | 24,811 | 24,932 | 25,153 | 25,496 | 25,098 |
| 1992 | 26,292 | 26,678 | 25,074 | 27,445 | 26,372 |
| 1993 | 27,422 | 27,645 | 27,467 | 27,511 | 27,511 |
| 1994 | 27,829 | 28,096 | 28,497 | 28,904 | 28,332 |
| 1995 | 29,134 | 29,360 | 29,342 | 29,495 | 29,333 |
| 1996 | 29,570 | 29,642 | 29,756 | 29,824 | 29,698 |
| 1997 | 30,162 | 30,390 | 30,704 | 30,659 | 30,479 |
| 1998 | 30,864 | 31,008 | (NA) | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 5.6 | 7.0 | 5.8 | 5.2 | 5.9 |
| 1983 | 10.1 | 9.0 | 8.3 | 10.7 | 9.5 |
| 1984 | 6.5 | 7.6 | 8.2 | 6.0 | 7.0 |
| 1985 | 7.8 | 6.1 | 5.9 | 7.1 | 6.7 |
| 1986 | 6.6 | 6.8 | 7.4 | 7.0 | 7.0 |
| 1987 | 6.6 | 7.5 | 7.6 | 9.3 | 7.7 |
| 1988 | 10.5 | 11.2 | 10.6 | 10.8 | 10.8 |
| 1989 | 10.3 | 10.1 | 10.7 | 10.3 | 10.4 |
| 1990 | 12.0 | 12.8 | 13.6 | 12.9 | 12.8 |
| 1991 | 8.3 | 5.3 | 3.3 | 2.4 | 4.8 |
| 1992 | 6.0 | 7.0 | -0.3 | 7.6 | 5.1 |
| 1993 | 4.3 | 3.6 | 9.5 | 0.2 | 4.3 |
| 1994 | 1.5 | 1.6 | 3.7 | 5.1 | 3.0 |
| 1995 | 4.7 | 4.5 | 3.0 | 2.0 | 3.5 |
| 1996 | 1.5 | 1.0 | 1.4 | 1.1 | 1.2 |
| 1997 | 2.0 | 2.5 | 3.2 | 2.8 | 2.6 |
| 1998 | 2.3 | 2.0 | (NA) | (NA) | (NA) |

Data have been revised.

NA Not available.

Sources: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table B-3. TOTAL WAGES AND SALARIES

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual Average</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| In Millions of Dollars at Seasonally Adjusted Annual Rates | | | | | |
| 1982 | 7,391 | 7,521 | 7,685 | 7,828 | 7,606 |
| 1983 | 7,993 | 8,064 | 8,062 | 8,321 | 8,110 |
| 1984 | 8,412 | 8,645 | 8,692 | 8,762 | 8,628 |
| 1985 | 8,987 | 9,122 | 9,275 | 9,455 | 9,210 |
| 1986 | 9,557 | 9,668 | 9,882 | 10,158 | 9,816 |
| 1987 | 10,382 | 10,632 | 10,882 | 11,166 | 10,766 |
| 1988 | 11,420 | 11,712 | 11,922 | 12,273 | 11,832 |
| 1989 | 12,548 | 12,903 | 13,245 | 13,612 | 13,077 |
| 1990 | 13,935 | 14,349 | 14,703 | 15,084 | 14,518 |
| 1991 | 15,141 | 15,253 | 15,481 | 15,693 | 15,392 |
| 1992 | 16,167 | 16,341 | 16,404 | 16,727 | 16,410 |
| 1993 | 16,609 | 16,847 | 16,608 | 16,523 | 16,647 |
| 1994 | 16,701 | 16,691 | 16,778 | 16,870 | 16,760 |
| 1995 | 16,717 | 16,812 | 16,724 | 16,745 | 16,750 |
| 1996 | 16,741 | 16,814 | 16,917 | 16,974 | 16,862 |
| 1997 | 17,167 | 17,313 | 17,544 | 17,438 | 17,366 |
| 1998 | 17,505 | 17,551 | (NA) | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 5.1 | 5.2 | 6.6 | 6.6 | 5.9 |
| 1983 | 8.1 | 7.2 | 4.9 | 6.3 | 6.6 |
| 1984 | 5.2 | 7.2 | 7.8 | 5.3 | 6.4 |
| 1985 | 6.8 | 5.5 | 6.7 | 7.9 | 6.7 |
| 1986 | 6.3 | 6.0 | 6.5 | 7.4 | 6.6 |
| 1987 | 8.6 | 10.0 | 10.1 | 9.9 | 9.7 |
| 1988 | 10.0 | 10.2 | 9.6 | 9.9 | 9.9 |
| 1989 | 9.9 | 10.2 | 11.1 | 10.9 | 10.5 |
| 1990 | 11.1 | 11.2 | 11.0 | 10.8 | 11.0 |
| 1991 | 8.7 | 6.3 | 5.3 | 4.0 | 6.1 |
| 1992 | 6.8 | 7.1 | 6.0 | 6.6 | 6.6 |
| 1993 | 2.7 | 3.1 | 1.2 | -1.2 | 1.5 |
| 1994 | 0.6 | -0.9 | 1.0 | 2.1 | 0.7 |
| 1995 | 0.1 | 0.7 | -0.3 | -0.7 | -0.1 |
| 1996 | 0.1 | 0.0 | 1.2 | 1.4 | 0.7 |
| 1997 | 2.5 | 3.0 | 3.7 | 2.7 | 3.0 |
| 1998 | 2.0 | 1.4 | (NA) | (NA) | (NA) |

Data have been revised.

NA Not available.

Sources: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table B-4. OTHER LABOR INCOME

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual Average</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| In Millions of Dollars at Seasonally Adjusted Annual Rates | | | | | |
| 1982 | 610 | 633 | 659 | 683 | 646 |
| 1983 | 695 | 711 | 720 | 746 | 718 |
| 1984 | 763 | 796 | 803 | 814 | 794 |
| 1985 | 826 | 827 | 841 | 859 | 838 |
| 1986 | 885 | 923 | 960 | 991 | 940 |
| 1987 | 998 | 1,013 | 1,013 | 1,040 | 1,016 |
| 1988 | 1,058 | 1,078 | 1,096 | 1,132 | 1,091 |
| 1989 | 1,164 | 1,220 | 1,274 | 1,323 | 1,245 |
| 1990 | 1,367 | 1,420 | 1,476 | 1,541 | 1,451 |
| 1991 | 1,566 | 1,612 | 1,660 | 1,690 | 1,632 |
| 1992 | 1,742 | 1,758 | 1,779 | 1,789 | 1,767 |
| 1993 | 1,889 | 1,892 | 1,889 | 1,870 | 1,885 |
| 1994 | 1,957 | 1,934 | 1,952 | 1,951 | 1,949 |
| 1995 | 1,922 | 1,899 | 1,852 | 1,816 | 1,873 |
| 1996 | 1,765 | 1,742 | 1,727 | 1,714 | 1,803 |
| 1997 | 1,714 | 1,717 | 1,725 | 1,698 | 1,767 |
| 1998 | 1,696 | 1,693 | (NA) | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 8.3 | 9.9 | 13.4 | 14.8 | 11.7 |
| 1983 | 13.9 | 12.3 | 9.3 | 9.2 | 11.1 |
| 1984 | 9.8 | 12.0 | 11.5 | 9.1 | 10.6 |
| 1985 | 8.3 | 3.9 | 4.7 | 5.5 | 5.6 |
| 1986 | 7.1 | 11.6 | 14.1 | 15.4 | 12.1 |
| 1987 | 12.8 | 9.8 | 5.5 | 4.9 | 8.1 |
| 1988 | 6.0 | 6.4 | 8.2 | 8.8 | 7.4 |
| 1989 | 10.0 | 13.2 | 16.2 | 16.9 | 14.1 |
| 1990 | 17.4 | 16.4 | 15.9 | 16.5 | 16.5 |
| 1991 | 14.6 | 13.5 | 12.5 | 9.7 | 12.5 |
| 1992 | 11.2 | 9.1 | 7.2 | 5.9 | 8.3 |
| 1993 | 8.4 | 7.6 | 6.2 | 4.5 | 6.7 |
| 1994 | 3.6 | 2.2 | 3.3 | 4.3 | 3.4 |
| 1995 | -1.8 | -1.8 | -5.1 | -6.9 | -3.9 |
| 1996 | -8.2 | -8.3 | -6.7 | -5.6 | -3.7 |
| 1997 | -2.9 | -1.4 | -0.1 | -0.9 | -2.0 |
| 1998 | -1.1 | -1.4 | (NA) | (NA) | (NA) |

Data have been revised.

NA Not available.

Source: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table B-5. PROPRIETORS' INCOME

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual Average</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| In Millions of Dollars at Seasonally Adjusted Annual Rates | | | | | |
| 1982 | 729 | 850 | 845 | 863 | 822 |
| 1983 | 1,027 | 1,027 | 1,029 | 1,021 | 1,026 |
| 1984 | 992 | 1,039 | 1,087 | 1,021 | 1,035 |
| 1985 | 1,129 | 1,126 | 1,127 | 1,150 | 1,133 |
| 1986 | 1,186 | 1,193 | 1,265 | 1,265 | 1,227 |
| 1987 | 1,257 | 1,294 | 1,357 | 1,412 | 1,330 |
| 1988 | 1,596 | 1,763 | 1,719 | 1,806 | 1,721 |
| 1989 | 1,792 | 1,776 | 1,792 | 1,870 | 1,808 |
| 1990 | 2,041 | 2,094 | 2,157 | 2,169 | 2,115 |
| 1991 | 2,056 | 2,083 | 2,063 | 2,036 | 2,060 |
| 1992 | 2,063 | 2,036 | 2,173 | 2,200 | 2,151 |
| 1993 | 2,281 | 2,279 | 2,317 | 2,372 | 2,312 |
| 1994 | 2,304 | 2,346 | 2,382 | 2,421 | 2,363 |
| 1995 | 2,441 | 2,472 | 2,535 | 2,559 | 2,453 |
| 1996 | 2,529 | 2,532 | 2,528 | 2,523 | 2,466 |
| 1997 | 2,527 | 2,567 | 2,608 | 2,647 | 2,488 |
| 1998 | 2,686 | 2,707 | (NA) | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -9.4 | 14.7 | 9.5 | 15.8 | 7.3 |
| 1983 | 40.9 | 20.8 | 21.8 | 18.3 | 24.9 |
| 1984 | -3.4 | 1.2 | 5.6 | 0.0 | 0.9 |
| 1985 | 13.8 | 8.4 | 3.7 | 12.6 | 9.5 |
| 1986 | 5.0 | 6.0 | 12.2 | 10.0 | 8.3 |
| 1987 | 6.0 | 8.5 | 7.3 | 11.6 | 8.4 |
| 1988 | 27.0 | 36.2 | 26.7 | 27.9 | 29.4 |
| 1989 | 12.3 | 0.7 | 4.2 | 3.5 | 5.0 |
| 1990 | 13.9 | 17.9 | 20.4 | 16.0 | 17.0 |
| 1991 | 0.7 | -0.5 | -4.4 | -6.1 | -2.6 |
| 1992 | 0.3 | -2.3 | 5.3 | 8.1 | 2.8 |
| 1993 | 10.6 | 11.9 | 6.6 | 7.8 | 9.2 |
| 1994 | 1.0 | 2.9 | 2.8 | 2.1 | 2.2 |
| 1995 | 5.9 | 5.4 | 6.4 | 5.7 | 5.9 |
| 1996 | 3.6 | 2.4 | -0.3 | -1.4 | 1.0 |
| 1997 | -0.1 | 1.4 | 3.2 | 4.9 | 2.3 |
| 1998 | 6.3 | 5.5 | (NA) | (NA) | (NA) |

Data have been revised.

NA Not available.

Source: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table B-6. DIVIDENDS, INTEREST, AND RENT

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual Average</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| In Millions of Dollars at Seasonally Adjusted Annual Rates | | | | | |
| 1982 | 1,915 | 1,930 | 1,896 | 1,726 | 1,867 |
| 1983 | 1,963 | 2,043 | 2,143 | 2,232 | 2,095 |
| 1984 | 2,273 | 2,340 | 2,452 | 2,509 | 2,394 |
| 1985 | 2,511 | 2,523 | 2,536 | 2,587 | 2,539 |
| 1986 | 2,696 | 2,701 | 2,690 | 2,651 | 2,685 |
| 1987 | 2,689 | 2,724 | 2,788 | 2,962 | 2,791 |
| 1988 | 2,988 | 3,005 | 3,098 | 3,255 | 3,087 |
| 1989 | 3,409 | 3,527 | 3,505 | 3,550 | 3,498 |
| 1990 | 3,692 | 3,823 | 3,978 | 4,033 | 3,882 |
| 1991 | 3,996 | 3,989 | 4,001 | 4,061 | 4,012 |
| 1992 | 4,055 | 4,126 | 2,543 | 4,076 | 3,700 |
| 1993 | 4,114 | 4,031 | 3,981 | 3,986 | 4,028 |
| 1994 | 4,097 | 4,267 | 4,451 | 4,638 | 4,363 |
| 1995 | 4,757 | 4,786 | 4,780 | 4,899 | 4,806 |
| 1996 | 4,982 | 4,995 | 5,027 | 5,035 | 5,010 |
| 1997 | 5,075 | 5,077 | 5,080 | 5,082 | 5,079 |
| 1998 | 5,095 | 5,137 | (NA) | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 10.5 | 7.6 | -1.0 | -10.8 | 1.2 |
| 1983 | 2.5 | 5.9 | 13.0 | 29.3 | 12.2 |
| 1984 | 15.8 | 14.5 | 14.4 | 12.4 | 14.2 |
| 1985 | 10.5 | 7.8 | 3.4 | 3.1 | 6.1 |
| 1986 | 7.4 | 7.1 | 6.1 | 2.5 | 5.7 |
| 1987 | -0.3 | 0.9 | 3.6 | 11.7 | 4.0 |
| 1988 | 11.1 | 10.3 | 11.1 | 9.9 | 10.6 |
| 1989 | 14.1 | 17.4 | 13.1 | 9.1 | 13.3 |
| 1990 | 8.3 | 8.4 | 13.5 | 13.6 | 11.0 |
| 1991 | 8.2 | 4.3 | 0.6 | 0.7 | 3.4 |
| 1992 | 1.5 | 3.4 | -36.4 | 0.4 | -7.8 |
| 1993 | 1.5 | -2.3 | 56.5 | -2.2 | 8.9 |
| 1994 | -0.4 | 5.9 | 11.8 | 16.4 | 8.3 |
| 1995 | 16.1 | 12.2 | 7.4 | 5.6 | 10.1 |
| 1996 | 4.7 | 4.4 | 5.2 | 2.8 | 4.3 |
| 1997 | 1.9 | 1.6 | 1.1 | 0.9 | 1.4 |
| 1998 | 0.4 | 1.2 | (NA) | (NA) | (NA) |

Data have been revised.

NA Not available.

Source: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table B-7. TRANSFER PAYMENTS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual Average</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| In Millions of Dollars at Seasonally Adjusted Annual Rates | | | | | |
| 1982 | 1,598 | 1,628 | 1,691 | 1,761 | 1,670 |
| 1983 | 1,800 | 1,845 | 1,858 | 1,886 | 1,847 |
| 1984 | 1,901 | 1,911 | 1,920 | 1,948 | 1,920 |
| 1985 | 2,016 | 2,033 | 2,066 | 2,083 | 2,050 |
| 1986 | 2,155 | 2,188 | 2,208 | 2,205 | 2,189 |
| 1987 | 2,238 | 2,261 | 2,269 | 2,289 | 2,264 |
| 1988 | 2,373 | 2,402 | 2,433 | 2,471 | 2,420 |
| 1989 | 2,543 | 2,572 | 2,652 | 2,766 | 2,633 |
| 1990 | 2,985 | 3,108 | 3,180 | 3,263 | 3,134 |
| 1991 | 3,270 | 3,213 | 3,180 | 3,260 | 3,231 |
| 1992 | 3,448 | 3,555 | 3,695 | 3,869 | 3,642 |
| 1993 | 3,870 | 3,930 | 3,985 | 4,052 | 3,959 |
| 1994 | 4,133 | 4,204 | 4,285 | 4,381 | 4,251 |
| 1995 | 4,668 | 4,770 | 4,821 | 4,848 | 4,777 |
| 1996 | 4,918 | 4,932 | 4,936 | 4,961 | 4,937 |
| 1997 | 5,078 | 5,125 | 5,174 | 5,208 | 5,146 |
| 1998 | 5,306 | 5,347 | (NA) | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 10.7 | 10.4 | 7.7 | 11.1 | 9.9 |
| 1983 | 12.6 | 13.3 | 9.9 | 7.1 | 10.6 |
| 1984 | 5.6 | 3.6 | 3.3 | 3.3 | 3.9 |
| 1985 | 6.0 | 6.4 | 7.6 | 6.9 | 6.7 |
| 1986 | 6.9 | 7.6 | 6.9 | 5.9 | 6.8 |
| 1987 | 3.9 | 3.3 | 2.8 | 3.8 | 3.4 |
| 1988 | 6.0 | 6.2 | 7.2 | 8.0 | 6.9 |
| 1989 | 7.2 | 7.1 | 9.0 | 11.9 | 8.8 |
| 1990 | 17.4 | 20.8 | 19.9 | 18.0 | 19.0 |
| 1991 | 9.5 | 3.4 | 0.0 | -0.1 | 3.1 |
| 1992 | 5.4 | 10.6 | 16.2 | 18.7 | 12.7 |
| 1993 | 12.2 | 10.5 | 7.8 | 4.7 | 8.7 |
| 1994 | 6.8 | 7.0 | 7.5 | 8.1 | 7.4 |
| 1995 | 12.9 | 13.5 | 12.5 | 10.7 | 12.4 |
| 1996 | 5.4 | 3.4 | 2.4 | 2.3 | 3.3 |
| 1997 | 3.3 | 3.9 | 4.8 | 5.0 | 4.2 |
| 1998 | 4.5 | 4.3 | (NA) | (NA) | (NA) |

Data have been revised.

NA Not available.

Source: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table B-8. PERSONAL CONTRIBUTIONS TO SOCIAL INSURANCE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual Average</i> |
|--|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| In Millions of Dollars at Seasonally Adjusted Annual Rates | | | | | |
| 1982 | 546 | 559 | 573 | 582 | 565 |
| 1983 | 603 | 602 | 597 | 612 | 604 |
| 1984 | 636 | 653 | 651 | 647 | 647 |
| 1985 | 696 | 698 | 700 | 705 | 700 |
| 1986 | 727 | 731 | 741 | 756 | 739 |
| 1987 | 778 | 792 | 808 | 822 | 800 |
| 1988 | 886 | 905 | 919 | 944 | 914 |
| 1989 | 993 | 1,020 | 1,044 | 1,068 | 1,031 |
| 1990 | 1,106 | 1,126 | 1,157 | 1,183 | 1,143 |
| 1991 | 1,218 | 1,218 | 1,232 | 1,244 | 1,228 |
| 1992 | 1,293 | 1,301 | 1,302 | 1,292 | 1,297 |
| 1993 | 1,339 | 1,334 | 1,313 | 1,292 | 1,320 |
| 1994 | 1,363 | 1,345 | 1,351 | 1,357 | 1,354 |
| 1995 | 1,371 | 1,378 | 1,370 | 1,371 | 1,373 |
| 1996 | 1,367 | 1,372 | 1,379 | 1,382 | 1,375 |
| 1997 | 1,401 | 1,410 | 1,426 | 1,414 | 1,413 |
| 1998 | 1,424 | 1,426 | (NA) | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 7.9 | 9.6 | 11.3 | 10.6 | 9.9 |
| 1983 | 10.4 | 7.7 | 4.2 | 5.2 | 6.8 |
| 1984 | 5.5 | 8.5 | 9.0 | 5.7 | 7.2 |
| 1985 | 9.4 | 6.9 | 7.5 | 9.0 | 8.2 |
| 1986 | 4.5 | 4.7 | 5.9 | 7.2 | 5.6 |
| 1987 | 7.0 | 8.3 | 9.0 | 8.7 | 8.3 |
| 1988 | 13.9 | 14.3 | 13.7 | 14.8 | 14.2 |
| 1989 | 12.1 | 12.7 | 13.6 | 13.1 | 12.9 |
| 1990 | 11.4 | 10.4 | 10.8 | 10.8 | 10.8 |
| 1991 | 10.1 | 8.2 | 6.5 | 5.2 | 7.4 |
| 1992 | 6.2 | 6.8 | 5.7 | 3.9 | 5.6 |
| 1993 | 3.6 | 2.5 | 0.8 | 0.0 | 1.7 |
| 1994 | 1.8 | 0.8 | 2.9 | 5.0 | 2.6 |
| 1995 | 0.6 | 2.5 | 1.4 | 1.0 | 1.4 |
| 1996 | -0.3 | -0.4 | 0.7 | 0.8 | 0.2 |
| 1997 | 2.5 | 2.8 | 3.4 | 2.3 | 2.7 |
| 1998 | 1.6 | 1.1 | (NA) | (NA) | (NA) |

Data have been revised.

NA Not available.

Source: U.S. Bureau of Economic Analysis, Regional Accounts Data: October 27, 1998,

<<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table B-9. HONOLULU and U.S. CONSUMER PRICE INDEX,
ALL URBAN CONSUMERS (CPI-U)
[1982-84=100]**

| Period | U.S. | Honolulu | | | | | | | | |
|---|-------|-----------|------------------|---------|------------------|----------------|--------------|---------------|------------------|------------------------|
| | | All Items | Food & Beverages | Housing | Apparel & Upkeep | Transportation | Medical Care | Recreation 1/ | Educ. & Comm. 1/ | Other Goods & Services |
| 1982 | 96.5 | 97.2 | 96.9 | 98.0 | 98.4 | 99.0 | 91.6 | (NA) | (NA) | 92.0 |
| 1983 | 99.6 | 99.3 | 99.5 | 98.9 | 101.4 | 98.2 | 101.1 | (NA) | (NA) | 101.4 |
| 1984 | 103.9 | 103.5 | 103.6 | 103.1 | 100.2 | 102.9 | 107.3 | (NA) | (NA) | 106.6 |
| 1985 | 107.6 | 106.8 | 107.8 | 106.0 | 99.6 | 104.9 | 113.2 | (NA) | (NA) | 112.5 |
| 1986 | 109.6 | 109.4 | 110.0 | 108.4 | 99.8 | 105.2 | 122.3 | (NA) | (NA) | 119.6 |
| 1987 | 113.6 | 114.9 | 114.1 | 115.0 | 102.5 | 109.7 | 127.9 | (NA) | (NA) | 129.7 |
| 1988 | 118.3 | 121.7 | 120.3 | 123.0 | 106.8 | 116.1 | 132.5 | (NA) | (NA) | 137.1 |
| 1989 | 124.0 | 128.7 | 128.1 | 131.1 | 104.3 | 123.9 | 139.3 | (NA) | (NA) | 146.1 |
| 1990 | 130.7 | 138.1 | 137.8 | 141.5 | 107.0 | 131.1 | 154.2 | (NA) | (NA) | 160.4 |
| 1991 | 136.2 | 148.0 | 145.9 | 152.8 | 110.5 | 139.3 | 171.3 | (NA) | (NA) | 175.7 |
| 1992 | 140.3 | 155.1 | 148.5 | 161.7 | 114.2 | 147.4 | 182.6 | (NA) | (NA) | 189.0 |
| 1993 | 144.5 | 160.1 | 152.9 | 166.5 | 116.5 | 150.5 | 197.4 | (NA) | (NA) | 200.1 |
| 1994 | 148.2 | 164.5 | 153.4 | 171.6 | 118.7 | 156.4 | 206.0 | (NA) | (NA) | 209.6 |
| 1995 | 152.4 | 168.1 | 156.8 | 174.7 | 117.5 | 162.4 | 209.8 | (NA) | (NA) | 216.8 |
| 1996 | 156.9 | 170.7 | 156.6 | 176.8 | 118.5 | 167.0 | 215.0 | (NA) | (NA) | 226.5 |
| 1997 | 160.5 | 171.9 | 159.2 | 177.1 | 117.3 | 166.2 | 217.3 | (NA) | (NA) | 239.0 |
| 1995H1 | 151.5 | 166.9 | 156.5 | 173.4 | 118.1 | 160.0 | 207.8 | (NA) | (NA) | 214.4 |
| H2 | 153.2 | 169.4 | 157.1 | 176.0 | 116.9 | 164.9 | 211.8 | (NA) | (NA) | 219.2 |
| 1996H1 | 155.8 | 170.5 | 156.9 | 176.8 | 120.0 | 166.3 | 214.9 | (NA) | (NA) | 220.6 |
| H2 | 157.9 | 171.0 | 156.3 | 176.8 | 116.9 | 167.7 | 215.0 | (NA) | (NA) | 232.4 |
| 1997H1 | 159.9 | 172.1 | 159.4 | 177.3 | 119.8 | 167.8 | 215.6 | (NA) | (NA) | 232.5 |
| H2 | 161.2 | 171.8 | 159.0 | 177.0 | 114.8 | 164.6 | 219.1 | (NA) | (NA) | 245.5 |
| 1998H1 | 162.3 | 172.0 | 160.0 | 176.3 | 116.4 | 163.2 | 222.5 | 101.4 | 98.9 | 254.3 |
| Percentage Change from the Same Period in Previous Year | | | | | | | | | | |
| 1982 | 6.2 | 6.0 | 4.6 | 6.2 | 4.1 | 3.4 | 12.0 | (NA) | (NA) | 12.9 |
| 1983 | 3.2 | 2.2 | 2.7 | 0.9 | 3.0 | -0.8 | 10.4 | (NA) | (NA) | 10.2 |
| 1984 | 4.3 | 4.2 | 4.1 | 4.2 | -1.2 | 4.8 | 6.1 | (NA) | (NA) | 5.1 |
| 1985 | 3.6 | 3.2 | 4.1 | 2.8 | -0.6 | 1.9 | 5.5 | (NA) | (NA) | 5.5 |
| 1986 | 1.9 | 2.4 | 2.0 | 2.3 | 0.2 | 0.3 | 8.0 | (NA) | (NA) | 6.3 |
| 1987 | 3.6 | 5.0 | 3.7 | 6.1 | 2.7 | 4.3 | 4.6 | (NA) | (NA) | 8.4 |
| 1988 | 4.1 | 5.9 | 5.4 | 7.0 | 4.2 | 5.8 | 3.6 | (NA) | (NA) | 5.7 |
| 1989 | 4.8 | 5.8 | 6.5 | 6.6 | -2.3 | 6.7 | 5.1 | (NA) | (NA) | 6.6 |
| 1990 | 5.4 | 7.3 | 7.6 | 7.9 | 2.6 | 5.8 | 10.7 | (NA) | (NA) | 9.8 |
| 1991 | 4.2 | 7.2 | 5.9 | 8.0 | 3.3 | 6.3 | 11.1 | (NA) | (NA) | 9.5 |
| 1992 | 3.0 | 4.8 | 1.8 | 5.8 | 3.3 | 5.8 | 6.6 | (NA) | (NA) | 7.6 |
| 1993 | 3.0 | 3.2 | 3.0 | 3.0 | 2.0 | 2.1 | 8.1 | (NA) | (NA) | 5.9 |
| 1994 | 2.6 | 2.7 | 0.3 | 3.1 | 1.9 | 3.9 | 4.4 | (NA) | (NA) | 4.7 |
| 1995 | 2.8 | 2.2 | 2.2 | 1.8 | -1.0 | 3.8 | 1.8 | (NA) | (NA) | 3.4 |
| 1996 | 2.9 | 1.5 | -0.1 | 1.2 | 0.9 | 2.8 | 2.5 | (NA) | (NA) | 4.5 |
| 1997 | 2.3 | 0.7 | 1.7 | 0.2 | -1.0 | -0.5 | 1.1 | (NA) | (NA) | 5.5 |
| 1995H1 | 3.0 | 2.1 | 3.2 | 1.8 | -0.8 | 2.6 | 1.6 | (NA) | (NA) | 3.3 |
| H2 | 2.6 | 2.2 | 1.2 | 1.9 | -1.1 | 5.2 | 2.1 | (NA) | (NA) | 3.5 |
| 1996H1 | 2.8 | 2.2 | 0.3 | 2.0 | 1.6 | 3.9 | 3.4 | (NA) | (NA) | 2.9 |
| H2 | 3.1 | 0.9 | -0.5 | 0.5 | 0.0 | 1.7 | 1.5 | (NA) | (NA) | 6.0 |
| 1997H1 | 2.6 | 0.9 | 1.6 | 0.3 | -0.2 | 0.9 | 0.3 | (NA) | (NA) | 5.4 |
| H2 | 2.1 | 0.5 | 1.7 | 0.1 | -1.8 | -1.8 | 1.9 | (NA) | (NA) | 5.6 |
| 1998H1 | 1.5 | -0.1 | 0.4 | -0.6 | -2.8 | -2.7 | 3.2 | (NA) | (NA) | 9.4 |

Data on U.S. CPI are released monthly and Honolulu CPI, twice a year in February and August for the half (H) year previous.

NA Not available.

1/ New indexes as of January 1998. Base period is December 1997. The former "Entertainment" index has been discontinued.

Source: U.S. Bureau of Labor Statistics, <<http://stats.bls.gov>>, Fax-on-Demand (415) 975-4567, and Information (415) 975-4350.

C. TAX BASE AND REVENUES

Revenue deposited to the State General Fund increased from the third quarter of 1997 through the third quarter of 1998. Growth came from each of the three major sources of revenue: general excise tax, individual income tax, and the corporate income tax.

General fund revenue grew by 4.9 percent from the third quarter of 1997 through the third quarter of 1998. Year-to-date general fund revenue was up by 6.1 percent over the first three quarters of 1997. A part of this increase reflected technical changes in prior years, but the recent growth was largely free of those influences.

The general excise tax, the single largest source of general fund revenue, grew by a relatively small 1.1 percent in the quarter (Table C-3). However this followed negative year-over-year growth in the second quarter of this year and negative growth in 1997 relative to 1996. Through September, general excise tax revenue is down about 0.4 percent from the same period last year.

Net individual income tax receipts grew by 5.1 between the third quarter of 1997 and the third quarter of 1998 (Table C-4). This followed strong growth in each of the three preceding quarters. Much of the growth in early 1998 reflected lower refunds as a result of a reduction in withholding rates that applied to 1997. Most of this technical adjustment should be incorporated prior to the data for the third quarter of 1998.

Net corporation income tax receipts grew sharply in the third quarter relative to the year-earlier period (Table C-5). However, corporate receipts are notoriously volatile and

the increase may say little about underlying economic conditions. For the year through September, net corporate receipts were down by about 7 percent.

Reflecting the declines in visitor arrivals, transient accommodations tax revenue fell 2.1 percent over the year (Table C-6). This was the second consecutive quarter of decline, and the relatively weak pace of receipts over recent quarters clearly reflected the impact of the Asian crisis on Hawaii's visitor industry.

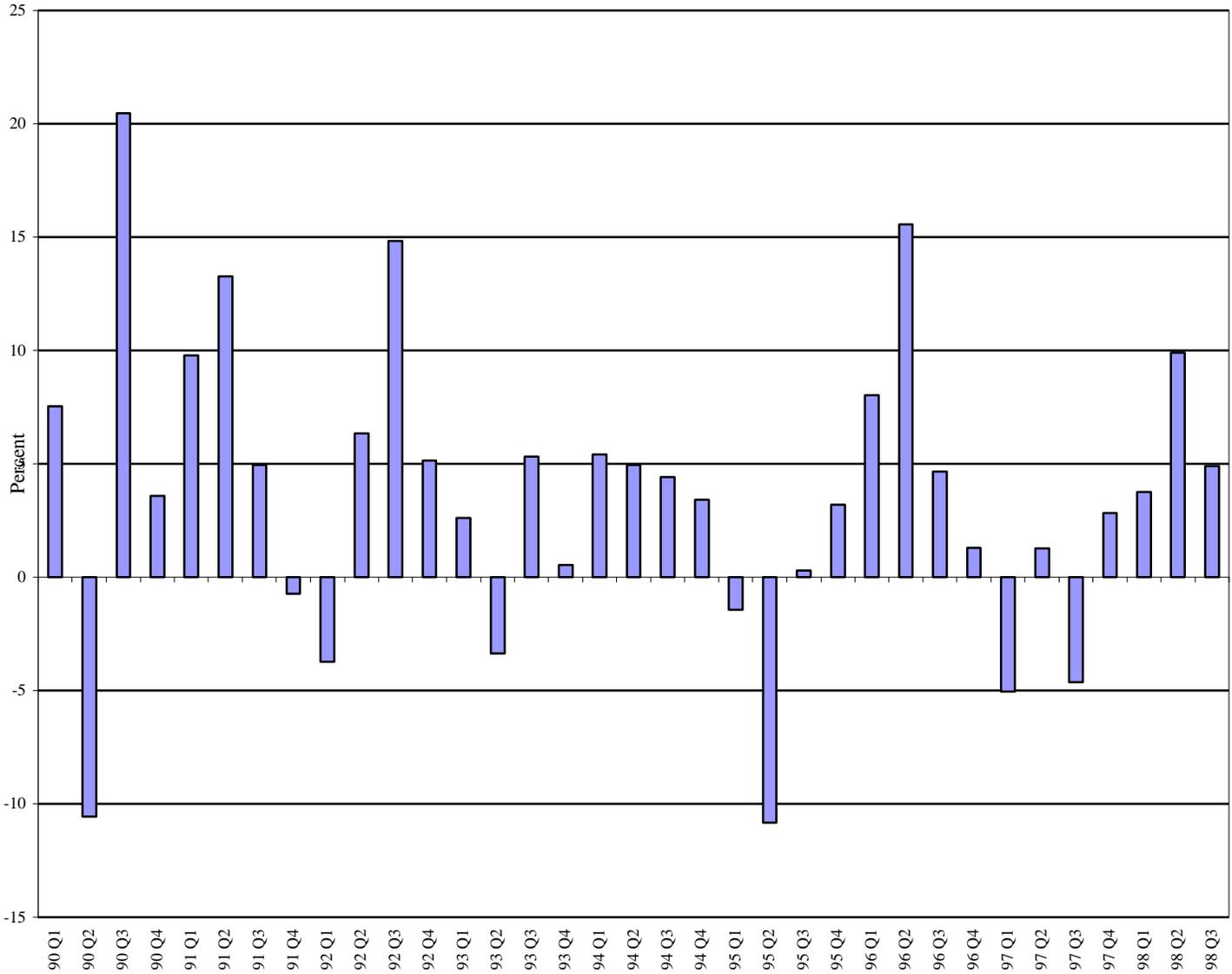
As discussed in the past two issues of the *QSER*, the processing of the collections of the general excise tax via electronic transfers of funds separates tax payments from tax returns. This has the effect of raising the portion of general fund revenue that is unallocated to specific industries (Table C-7). Indeed, in the third quarter of 1998, unallocated GEUT revenues were 160 percent higher than in the same period of 1997. In September 1998, the Hawaii State Department of Taxation revised the components of the GEUT revenues and of the tax bases for the months of March through December 1997.

While total GEUT revenue remains a valid indicator of economic activity, a large and variable portion of unallocated GEUT revenue makes it difficult to draw inferences about subsectors of the economy and about the GEUT base (the base is calculated from only the allocated portion of GEUT revenue).

For these reasons, this is the last issue of the *QSER* in which DBEDT will publish the GEUT bases (Tables C-8 through C-14).

Figure 2. Annual Growth in General Fund Revenue

[percentage change from the same period in previous year]



Source: Table C-2. State General Fund Tax Revenues.

Table C-1. GENERAL FUND TAX REVENUES AND MAJOR COMPONENTS

| <i>Year</i> | <i>General Excise and Use Tax</i> | <i>Net Individual Income Tax 1/</i> | <i>Net Corporate Income Tax 2/</i> | <i>Tax Revenues Distributed to State General Fund</i> |
|--|-----------------------------------|-------------------------------------|------------------------------------|---|
| In Thousands of Dollars | | | | |
| 1990 | 1,250,203 | 743,114 | 86,269 | 2,246,752 |
| 1991 | 1,287,819 | 900,962 | 70,568 | 2,397,289 |
| 1992 | 1,299,814 | 922,206 | 42,737 | 2,523,672 |
| 1993 | 1,308,797 | 951,405 | 22,239 | 2,555,914 |
| 1994 | 1,347,945 | 1,003,479 | 34,228 | 2,672,293 |
| 1995 | 1,386,684 | 918,811 | 37,336 | 2,614,713 |
| 1996 | 1,469,766 | 995,456 | 51,243 | 2,799,972 |
| 1997 | 1,433,012 | 985,000 | 55,594 | 2,756,619 |
| 1997 | | | | |
| 1 Qtr. | 365,069 | 227,409 | 18,055 | 688,683 |
| 2 Qtr. | 366,563 | 213,468 | 32,330 | 676,222 |
| 3 Qtr. | 356,533 | 269,597 | 10,594 | 704,749 |
| 4 Qtr. | 344,846 | 274,526 | -5,386 | 686,966 |
| 1998 | | | | |
| 1 Qtr. | 375,018 | 247,815 | 10,593 | 714,466 |
| 2 Qtr. | 348,955 | 291,713 | 30,409 | 743,002 |
| 3 Qtr. | 360,313 | 283,430 | 15,479 | 738,957 |
| Percentage Change from the Same Period in Previous Year | | | | |
| 1991 | 3.0 | 21.2 | -18.2 | 6.7 |
| 1992 | 0.9 | 2.4 | -39.4 | 5.3 |
| 1993 | 0.7 | 3.2 | -48.0 | 1.3 |
| 1994 | 3.0 | 5.5 | 53.9 | 4.6 |
| 1995 | 2.9 | -8.4 | 9.1 | -2.2 |
| 1996 | 6.0 | 8.3 | 37.2 | 7.1 |
| 1997 | -2.5 | -1.1 | 8.5 | -1.5 |
| 1997 | | | | |
| 1 Qtr. | -5.6 | -6.1 | 16.9 | -5.0 |
| 2 Qtr. | 2.6 | -2.0 | 14.1 | 1.3 |
| 3 Qtr. | -5.9 | -2.6 | 6.9 | -4.6 |
| 4 Qtr. | -0.5 | 6.2 | -119.3 | 2.8 |
| 1998 | | | | |
| 1 Qtr. | 2.7 | 9.0 | -41.3 | 3.7 |
| 2 Qtr. | -4.8 | 36.7 | -5.9 | 9.9 |
| 3 Qtr. | 1.1 | 5.1 | 46.2 | 4.9 |

These series represent data as reported by the Hawaii State Department of Taxation, without adjustment.

1/ Declaration of estimated taxes, plus payments with returns, plus withholding tax on wages, less refunds.

2/ Declaration of estimated taxes, plus payments with returns, less refunds.

Source: Hawaii State Department of Taxation.

Table C-2. STATE GENERAL FUND TAX REVENUES

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 248,406 | 219,138 | 284,382 | 259,539 | 1,011,465 |
| 1983 | 267,914 | 270,680 | 295,506 | 275,775 | 1,109,875 |
| 1984 | 293,272 | 313,706 | 317,325 | 316,049 | 1,240,352 |
| 1985 | 315,085 | 344,414 | 344,675 | 321,618 | 1,325,792 |
| 1986 | 347,122 | 393,177 | 377,599 | 368,586 | 1,486,484 |
| 1987 | 400,594 | 461,714 | 430,015 | 438,903 | 1,731,226 |
| 1988 | 466,093 | 514,559 | 483,626 | 484,896 | 1,949,174 |
| 1989 | 554,240 | 593,091 | 441,009 | 568,663 | 2,157,003 |
| 1990 | 595,969 | 530,495 | 531,250 | 589,038 | 2,246,752 |
| 1991 | 654,221 | 600,830 | 557,568 | 584,670 | 2,397,289 |
| 1992 | 629,723 | 638,901 | 640,253 | 614,795 | 2,523,672 |
| 1993 | 646,217 | 617,400 | 674,237 | 618,060 | 2,555,914 |
| 1994 | 681,253 | 647,987 | 703,935 | 639,118 | 2,672,293 |
| 1995 | 671,365 | 577,802 | 705,998 | 659,548 | 2,614,713 |
| 1996 | 725,284 | 667,711 | 738,963 | 668,014 | 2,799,972 |
| 1997 | 688,683 | 676,222 | 704,749 | 686,966 | 2,756,619 |
| 1998 | 714,466 | 743,002 | 738,957 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 1.7 | -25.6 | 5.0 | -0.6 | -5.5 |
| 1983 | 7.9 | 23.5 | 3.9 | 6.3 | 9.7 |
| 1984 | 9.5 | 15.9 | 7.4 | 14.6 | 11.8 |
| 1985 | 7.4 | 9.8 | 8.6 | 1.8 | 6.9 |
| 1986 | 10.2 | 14.2 | 9.6 | 14.6 | 12.1 |
| 1987 | 15.4 | 17.4 | 13.9 | 19.1 | 16.5 |
| 1988 | 16.4 | 11.4 | 12.5 | 10.5 | 12.6 |
| 1989 | 18.9 | 15.3 | -8.8 | 17.3 | 10.7 |
| 1990 | 7.5 | -10.6 | 20.5 | 3.6 | 4.2 |
| 1991 | 9.8 | 13.3 | 5.0 | -0.7 | 6.7 |
| 1992 | -3.7 | 6.3 | 14.8 | 5.2 | 5.3 |
| 1993 | 2.6 | -3.4 | 5.3 | 0.5 | 1.3 |
| 1994 | 5.4 | 5.0 | 4.4 | 3.4 | 4.6 |
| 1995 | -1.5 | -10.8 | 0.3 | 3.2 | -2.2 |
| 1996 | 8.0 | 15.6 | 4.7 | 1.3 | 7.1 |
| 1997 | -5.0 | 1.3 | -4.6 | 2.8 | -1.5 |
| 1998 | 3.7 | 9.9 | 4.9 | (NA) | (NA) |

NA Not available.

Source: Hawaii State Department of Taxation.

Table C-3. GENERAL EXCISE & USE TAX REVENUES

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 141,147 | 147,532 | 151,149 | 134,762 | 574,590 |
| 1983 | 155,780 | 159,436 | 151,498 | 148,822 | 615,536 |
| 1984 | 165,120 | 173,806 | 165,634 | 165,245 | 669,805 |
| 1985 | 174,054 | 178,697 | 176,769 | 177,860 | 707,380 |
| 1986 | 192,020 | 200,048 | 198,275 | 187,619 | 777,962 |
| 1987 | 216,699 | 214,933 | 219,312 | 218,095 | 869,039 |
| 1988 | 240,507 | 241,952 | 241,341 | 242,153 | 965,953 |
| 1989 | 270,801 | 270,683 | 272,645 | 282,347 | 1,096,476 |
| 1990 | 313,129 | 308,567 | 314,328 | 314,180 | 1,250,203 |
| 1991 | 345,988 | 304,240 | 335,721 | 301,869 | 1,287,819 |
| 1992 | 338,288 | 318,844 | 325,339 | 317,342 | 1,299,814 |
| 1993 | 332,689 | 327,549 | 332,661 | 315,899 | 1,308,797 |
| 1994 | 353,369 | 330,321 | 345,770 | 318,483 | 1,347,945 |
| 1995 | 363,101 | 335,907 | 348,033 | 339,644 | 1,386,684 |
| 1996 | 386,710 | 357,416 | 379,032 | 346,610 | 1,469,766 |
| 1997 | 365,069 | 366,563 | 356,533 | 344,846 | 1,433,012 |
| 1998 | 375,018 | 348,955 | 360,313 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 4.8 | -3.1 | 2.1 | -3.9 | -0.1 |
| 1983 | 10.4 | 8.1 | 0.2 | 10.4 | 7.1 |
| 1984 | 6.0 | 9.0 | 9.3 | 11.0 | 8.8 |
| 1985 | 5.4 | 2.8 | 6.7 | 7.6 | 5.6 |
| 1986 | 10.3 | 11.9 | 12.2 | 5.5 | 10.0 |
| 1987 | 12.9 | 7.4 | 10.6 | 16.2 | 11.7 |
| 1988 | 11.0 | 12.6 | 10.0 | 11.0 | 11.2 |
| 1989 | 12.6 | 11.9 | 13.0 | 16.6 | 13.5 |
| 1990 | 15.6 | 14.0 | 15.3 | 11.3 | 14.0 |
| 1991 | 10.5 | -1.4 | 6.8 | -3.9 | 3.0 |
| 1992 | -2.2 | 4.8 | -3.1 | 5.1 | 0.9 |
| 1993 | -1.7 | 2.7 | 2.3 | -0.5 | 0.7 |
| 1994 | 6.2 | 0.8 | 3.9 | 0.8 | 3.0 |
| 1995 | 2.8 | 1.7 | 0.7 | 6.6 | 2.9 |
| 1996 | 6.5 | 6.4 | 8.9 | 2.1 | 6.0 |
| 1997 | -5.6 | 2.6 | -5.9 | -0.5 | -2.5 |
| 1998 | 2.7 | -4.8 | 1.1 | (NA) | (NA) |

NA Not available.

Manufactured goods shipped out of state have been exempted from the general excise tax by Act 239, SLH 1987, effective January 1, 1988.

Source: Hawaii State Department of Taxation.

Table C-4. NET INDIVIDUAL INCOME TAX REVENUES

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 85,670 | 12,566 | 98,191 | 100,330 | 296,757 |
| 1983 | 94,313 | 54,183 | 107,922 | 101,656 | 358,074 |
| 1984 | 112,152 | 81,344 | 111,966 | 108,421 | 413,883 |
| 1985 | 108,567 | 100,302 | 125,692 | 111,797 | 446,358 |
| 1986 | 125,668 | 99,847 | 129,119 | 135,551 | 490,185 |
| 1987 | 134,394 | 143,625 | 138,773 | 157,937 | 574,729 |
| 1988 | 159,294 | 170,004 | 168,975 | 182,516 | 680,789 |
| 1989 | 205,080 | 211,019 | 176,719 | 209,182 | 802,000 |
| 1990 | 201,604 | 107,592 | 215,990 | 217,928 | 743,114 |
| 1991 | 252,599 | 186,218 | 240,437 | 221,709 | 900,962 |
| 1992 | 228,846 | 215,991 | 244,012 | 233,356 | 922,206 |
| 1993 | 233,868 | 211,674 | 262,952 | 242,909 | 951,405 |
| 1994 | 236,379 | 220,302 | 281,470 | 265,326 | 1,003,479 |
| 1995 | 224,594 | 154,310 | 277,057 | 262,848 | 918,811 |
| 1996 | 242,262 | 217,770 | 276,896 | 258,539 | 995,456 |
| 1997 | 227,409 | 213,468 | 269,597 | 274,526 | 985,000 |
| 1998 | 247,815 | 291,713 | 283,430 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 2.9 | -84.6 | 5.8 | 9.1 | -15.1 |
| 1983 | 10.1 | 331.2 | 9.9 | 1.3 | 20.7 |
| 1984 | 18.9 | 50.1 | 3.7 | 6.7 | 15.6 |
| 1985 | -3.2 | 23.3 | 12.3 | 3.1 | 7.8 |
| 1986 | 15.8 | -0.5 | 2.7 | 21.2 | 9.8 |
| 1987 | 6.9 | 43.8 | 7.5 | 16.5 | 17.2 |
| 1988 | 18.5 | 18.4 | 21.8 | 15.6 | 18.5 |
| 1989 | 28.7 | 24.1 | 4.6 | 14.6 | 17.8 |
| 1990 | -1.7 | -49.0 | 22.2 | 4.2 | -7.3 |
| 1991 | 25.3 | 73.1 | 11.3 | 1.7 | 21.2 |
| 1992 | -9.4 | 16.0 | 1.5 | 5.3 | 2.4 |
| 1993 | 2.2 | -2.0 | 7.8 | 4.1 | 3.2 |
| 1994 | 1.1 | 4.1 | 7.0 | 9.2 | 5.5 |
| 1995 | -5.0 | -30.0 | -1.6 | -0.9 | -8.4 |
| 1996 | 7.9 | 41.1 | -0.1 | -1.6 | 8.3 |
| 1997 | -6.1 | -2.0 | -2.6 | 6.2 | -1.1 |
| 1998 | 9.0 | 36.7 | 5.1 | (NA) | (NA) |

NA Not available.

Net Individual Income tax includes declaration of estimated taxes plus payments with returns less refunds.

Source: Hawaii State Department of Taxation.

Table C-5. NET CORPORATE INCOME TAX REVENUES

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 10,512 | 15,604 | 7,295 | 1,373 | 34,784 |
| 1983 | 6,456 | 9,343 | 11,330 | 831 | 27,960 |
| 1984 | 9,587 | 14,681 | 10,437 | 4,975 | 39,680 |
| 1985 | 7,522 | 21,904 | 11,552 | 3,097 | 44,075 |
| 1986 | 7,783 | 17,157 | 14,901 | 6,375 | 46,216 |
| 1987 | 13,647 | 26,592 | 17,857 | 9,176 | 67,272 |
| 1988 | 18,134 | 20,849 | 16,226 | 7,884 | 63,093 |
| 1989 | 23,520 | 24,710 | 18,756 | 5,690 | 72,676 |
| 1990 | 22,506 | 27,903 | 29,076 | 6,783 | 86,269 |
| 1991 | 23,720 | 36,369 | 11,090 | -611 | 70,568 |
| 1992 | 17,438 | 15,863 | 11,156 | -1,721 | 42,737 |
| 1993 | 6,535 | 13,374 | 13,513 | -11,185 | 22,239 |
| 1994 | 10,452 | 26,213 | 9,133 | -11,572 | 34,228 |
| 1995 | 12,869 | 19,818 | 12,030 | -7,380 | 37,336 |
| 1996 | 15,451 | 28,338 | 9,910 | -2,456 | 51,243 |
| 1997 | 18,055 | 32,330 | 10,594 | -5,386 | 55,594 |
| 1998 | 10,593 | 30,409 | 15,479 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 4.7 | -23.3 | -24.8 | -60.7 | -20.2 |
| 1983 | -38.6 | -40.1 | 55.3 | -39.5 | -19.6 |
| 1984 | 48.5 | 57.1 | -7.9 | 498.7 | 41.9 |
| 1985 | -21.5 | 49.2 | 10.7 | -37.7 | 11.1 |
| 1986 | 3.5 | -21.7 | 29.0 | 105.8 | 4.9 |
| 1987 | 75.3 | 55.0 | 19.8 | 43.9 | 45.6 |
| 1988 | 32.9 | -21.6 | -9.1 | -14.1 | -6.2 |
| 1989 | 29.7 | 18.5 | 15.6 | -27.8 | 15.2 |
| 1990 | -4.3 | 12.9 | 55.0 | 19.2 | 18.7 |
| 1991 | 5.4 | 30.3 | -61.9 | -109.0 | -18.2 |
| 1992 | -26.5 | -56.4 | 0.6 | 181.7 | -39.4 |
| 1993 | -62.5 | -15.7 | 21.1 | 549.9 | -48.0 |
| 1994 | 59.9 | 96.0 | -32.4 | 3.5 | 53.9 |
| 1995 | 23.1 | -24.4 | 31.7 | -36.2 | 9.1 |
| 1996 | 20.1 | 43.0 | -17.6 | -66.7 | 37.2 |
| 1997 | 16.9 | 14.1 | 6.9 | 119.3 | 8.5 |
| 1998 | -41.3 | -5.9 | 46.1 | (NA) | (NA) |

NA Not available.

Net Corporation Income tax includes declaration of estimated taxes plus payments with returns less refunds.

Source: Hawaii State Department of Taxation.

Table C-6. TRANSIENT ACCOMMODATIONS TAX REVENUES

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1987 ^{1/} | 7,216 | 16,294 | 16,163 | 13,554 | 53,227 |
| 1988 | 18,469 | 19,092 | 17,889 | 15,238 | 70,688 |
| 1989 | 20,822 | 22,022 | 18,438 | 19,712 | 80,994 |
| 1990 | 22,360 | 21,928 | 21,291 | 17,877 | 83,456 |
| 1991 | 20,926 | 19,127 | 20,019 | 17,858 | 77,930 |
| 1992 | 20,903 | 21,195 | 19,356 | 19,394 | 80,848 |
| 1993 | 20,893 | 20,665 | 17,155 | 16,692 | 75,405 |
| 1994 | 22,908 | 19,765 | 22,254 | 21,570 | 86,497 |
| 1995 | 27,219 | 26,996 | 26,601 | 24,801 | 105,617 |
| 1996 | 34,193 | 30,146 | 32,397 | 27,246 | 123,983 |
| 1997 | 32,014 | 33,798 | 31,899 | 29,180 | 126,891 |
| 1998 | 34,048 | 31,949 | 31,231 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1988 ^{1/} | 155.9 | 17.2 | 10.7 | 12.4 | 32.8 |
| 1989 | 12.7 | 15.3 | 3.1 | 29.4 | 14.6 |
| 1990 | 7.4 | -0.4 | 15.5 | -9.3 | 3.0 |
| 1991 | -6.4 | -12.8 | -6.0 | -0.1 | -6.6 |
| 1992 | -0.1 | 10.8 | -3.3 | 8.6 | 3.7 |
| 1993 | 0.0 | -2.5 | -11.4 | -13.9 | -6.7 |
| 1994 | 9.6 | -4.4 | 29.7 | 29.2 | 14.7 |
| 1995 | 18.8 | 36.6 | 19.5 | 15.0 | 22.1 |
| 1996 | 25.6 | 11.7 | 21.8 | 9.9 | 17.4 |
| 1997 | -6.4 | 12.1 | -1.5 | 7.1 | 2.3 |
| 1998 | 6.4 | -5.5 | -2.1 | (NA) | (NA) |

NA Not available.

^{1/} Tax collection for this category began in 1987.

Source: Hawaii State Department of Taxation.

**Table C-7. UNALLOCATED GENERAL EXCISE AND USE
TAX REVENUES**

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1988 | 11,689 | 11,158 | 12,386 | 8,794 | 44,026 |
| 1989 | 11,357 | 9,274 | 13,521 | 14,896 | 49,048 |
| 1990 | 17,746 | 16,552 | 15,569 | 14,756 | 64,623 |
| 1991 | 9,961 | 6,715 | 4,485 | 6,802 | 27,963 |
| 1992 | 6,776 | 5,311 | 3,502 | 8,417 | 24,006 |
| 1993 | 7,765 | 4,097 | 7,459 | 8,492 | 27,814 |
| 1994 | 10,427 | 10,936 | 9,488 | 9,627 | 40,478 |
| 1995 | 15,496 | 14,012 | 12,628 | 12,653 | 54,789 |
| 1996 | 23,185 | 10,447 | 7,548 | 9,710 | 50,889 |
| 1997 | 14,094 | 11,735 | 7,566 | 6,288 | 39,683 |
| 1998 | 25,784 | 35,545 | 19,682 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1989 | -2.8 | -16.9 | 9.2 | 69.4 | 11.4 |
| 1990 | 56.3 | 78.5 | 15.1 | -0.9 | 31.8 |
| 1991 | -43.9 | -59.4 | -71.2 | -53.9 | -56.7 |
| 1992 | -32.0 | -20.9 | -21.9 | 23.7 | -14.2 |
| 1993 | 14.6 | -22.9 | 113.0 | 0.9 | 15.9 |
| 1994 | 34.3 | 166.9 | 27.2 | 13.4 | 45.5 |
| 1995 | 48.6 | 28.1 | 33.1 | 31.4 | 35.4 |
| 1996 | 49.6 | -25.4 | -40.2 | -23.3 | -7.1 |
| 1997 | -39.2 | 12.3 | 0.2 | -35.2 | -22.0 |
| 1998 | 82.9 | 202.9 | 160.1 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.
NA Not available.

Table C-8. GENERAL EXCISE AND USE TAX BASE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 4,990,299 | 4,982,439 | 5,411,135 | 4,844,618 | 20,228,491 |
| 1983 | 5,434,518 | 5,525,089 | 5,316,928 | 5,240,080 | 21,516,615 |
| 1984 | 5,807,344 | 6,046,741 | 5,913,493 | 5,814,501 | 23,582,079 |
| 1985 | 6,069,864 | 6,168,458 | 6,003,488 | 6,081,463 | 24,323,273 |
| 1986 | 6,474,983 | 6,689,515 | 6,741,603 | 6,384,676 | 26,290,777 |
| 1987 | 7,063,461 | 7,034,681 | 7,049,490 | 7,162,866 | 28,310,498 |
| 1988 | 7,900,761 | 7,831,829 | 7,781,766 | 8,045,508 | 31,559,864 |
| 1989 | 8,875,612 | 8,802,740 | 8,823,274 | 9,277,288 | 35,778,914 |
| 1990 | 10,098,711 | 9,932,584 | 10,089,305 | 10,339,612 | 40,460,212 |
| 1991 | 11,531,461 | 10,125,451 | 11,284,878 | 10,190,096 | 43,131,886 |
| 1992 | 11,223,205 | 10,649,755 | 10,868,551 | 10,505,639 | 43,247,150 |
| 1993 | 11,176,704 | 11,596,999 | 11,013,667 | 10,500,101 | 44,287,471 |
| 1994 | 11,539,293 | 10,859,669 | 11,346,326 | 10,774,469 | 44,519,757 |
| 1995 | 11,876,294 | 11,011,431 | 11,447,658 | 11,241,646 | 45,577,029 |
| 1996 | 12,323,915 | 11,776,792 | 12,536,275 | 11,700,140 | 48,337,122 |
| 1997 | 11,969,528 | 12,055,823 | 11,992,827 | 11,690,677 | 47,708,855 |
| 1998 | 11,864,182 | 10,691,817 | 11,228,464 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 2.6 | -13.8 | 2.1 | -4.4 | -3.7 |
| 1983 | 8.9 | 10.9 | -1.7 | 8.2 | 6.4 |
| 1984 | 6.9 | 9.4 | 11.2 | 11.0 | 9.6 |
| 1985 | 4.5 | 2.0 | 1.5 | 4.6 | 3.1 |
| 1986 | 6.7 | 8.4 | 12.3 | 5.0 | 8.1 |
| 1987 | 9.1 | 5.2 | 4.6 | 12.2 | 7.7 |
| 1988 | 11.9 | 11.3 | 10.4 | 12.3 | 11.5 |
| 1989 | 12.3 | 12.4 | 13.4 | 15.3 | 13.4 |
| 1990 | 13.8 | 12.8 | 14.3 | 11.5 | 13.1 |
| 1991 | 14.2 | 1.9 | 11.8 | -1.4 | 6.6 |
| 1992 | -2.7 | 5.2 | -3.7 | 3.1 | 0.3 |
| 1993 | -0.4 | 8.9 | 1.3 | -0.1 | 2.4 |
| 1994 | 3.2 | -6.4 | 3.0 | 2.6 | 0.5 |
| 1995 | 2.9 | 1.4 | 0.9 | 4.3 | 2.4 |
| 1996 | 3.8 | 7.0 | 9.5 | 4.1 | 6.1 |
| 1997 | -2.9 | 2.4 | -4.3 | -0.1 | -1.3 |
| 1998 | -0.9 | -11.3 | -6.4 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.

NA Not available.

Table C-9. RETAILING TAX BASE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 1,710,281 | 1,750,597 | 1,813,302 | 1,600,783 | 6,874,963 |
| 1983 | 1,948,082 | 1,885,630 | 1,830,416 | 1,774,065 | 7,438,193 |
| 1984 | 2,034,424 | 2,047,426 | 1,981,977 | 2,048,066 | 8,111,893 |
| 1985 | 2,148,440 | 2,101,998 | 2,136,843 | 2,111,973 | 8,499,254 |
| 1986 | 2,370,712 | 2,336,286 | 2,330,069 | 2,202,306 | 9,239,373 |
| 1987 | 2,392,313 | 2,277,522 | 2,374,945 | 2,404,893 | 9,449,673 |
| 1988 | 2,653,942 | 2,612,874 | 2,573,969 | 2,545,189 | 10,385,974 |
| 1989 | 3,016,917 | 2,814,070 | 2,884,282 | 2,892,510 | 11,607,779 |
| 1990 | 3,320,274 | 3,124,012 | 3,169,330 | 3,214,267 | 12,827,883 |
| 1991 | 3,658,962 | 3,068,027 | 3,525,630 | 3,145,763 | 13,398,382 |
| 1992 | 3,668,603 | 3,282,789 | 3,484,491 | 3,410,449 | 13,846,332 |
| 1993 | 3,617,266 | 3,394,978 | 3,594,944 | 3,368,861 | 13,976,049 |
| 1994 | 3,848,491 | 3,527,809 | 3,697,656 | 3,495,842 | 14,569,798 |
| 1995 | 3,931,088 | 3,576,608 | 3,845,592 | 3,696,824 | 15,050,112 |
| 1996 | 4,206,452 | 3,826,770 | 4,247,405 | 3,810,801 | 16,091,428 |
| 1997 | 4,030,821 | 4,023,947 | 3,968,268 | 3,950,919 | 15,973,955 |
| 1998 | 3,940,664 | 3,552,300 | 3,701,325 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 6.4 | 2.2 | 3.6 | -1.8 | 2.6 |
| 1983 | 13.9 | 7.7 | 0.9 | 10.8 | 8.2 |
| 1984 | 4.4 | 8.6 | 8.3 | 15.4 | 9.1 |
| 1985 | 5.6 | 2.7 | 7.8 | 3.1 | 4.8 |
| 1986 | 10.3 | 11.1 | 9.0 | 4.3 | 8.7 |
| 1987 | 0.9 | -2.5 | 1.9 | 9.2 | 2.3 |
| 1988 | 10.9 | 14.7 | 8.4 | 5.8 | 9.9 |
| 1989 | 13.7 | 7.7 | 12.1 | 13.6 | 11.8 |
| 1990 | 10.1 | 11.0 | 9.9 | 11.1 | 10.5 |
| 1991 | 10.2 | -1.8 | 11.2 | -2.1 | 4.4 |
| 1992 | 0.3 | 7.0 | -1.2 | 8.4 | 3.3 |
| 1993 | -1.4 | 3.4 | 3.2 | -1.2 | 0.9 |
| 1994 | 6.4 | 3.9 | 2.9 | 3.8 | 4.2 |
| 1995 | 2.1 | 1.4 | 4.0 | 5.7 | 3.3 |
| 1996 | 7.0 | 7.0 | 10.4 | 3.1 | 6.9 |
| 1997 | -4.2 | 5.2 | -6.6 | 3.7 | -0.7 |
| 1998 | -2.2 | -11.7 | -6.7 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.

NA Not available.

Source: Hawaii State Department of Taxation.

Table C-10. SERVICES TAX BASE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 448,031 | 497,732 | 497,222 | 462,083 | 1,905,068 |
| 1983 | 519,248 | 566,201 | 536,793 | 512,282 | 2,134,524 |
| 1984 | 560,466 | 619,006 | 599,583 | 589,360 | 2,368,415 |
| 1985 | 592,615 | 646,397 | 627,910 | 614,747 | 2,481,669 |
| 1986 | 660,272 | 703,850 | 714,171 | 705,876 | 2,784,169 |
| 1987 | 713,389 | 725,796 | 732,601 | 724,373 | 2,896,159 |
| 1988 | 773,998 | 837,229 | 813,591 | 862,897 | 3,287,715 |
| 1989 | 904,992 | 937,746 | 918,812 | 937,453 | 3,699,003 |
| 1990 | 1,020,581 | 1,106,744 | 1,061,941 | 1,087,610 | 4,276,876 |
| 1991 | 1,235,423 | 1,229,726 | 1,253,564 | 1,169,451 | 4,888,164 |
| 1992 | 1,260,576 | 1,279,770 | 1,284,820 | 1,207,516 | 5,032,682 |
| 1993 | 1,233,391 | 1,316,712 | 1,300,445 | 1,242,108 | 5,092,656 |
| 1994 | 1,359,555 | 1,300,699 | 1,413,351 | 1,197,237 | 5,270,842 |
| 1995 | 1,371,020 | 1,312,002 | 1,342,239 | 1,325,818 | 5,351,079 |
| 1996 | 1,372,411 | 1,433,611 | 1,480,344 | 1,331,661 | 5,618,027 |
| 1997 | 1,340,741 | 1,423,370 | 1,361,714 | 1,288,866 | 5,414,691 |
| 1998 | 1,357,297 | 1,360,631 | 1,367,374 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 0.0 | 6.4 | 10.4 | 4.1 | 5.3 |
| 1983 | 15.9 | 13.8 | 8.0 | 10.9 | 12.0 |
| 1984 | 7.9 | 9.3 | 11.7 | 15.0 | 11.0 |
| 1985 | 5.7 | 4.4 | 4.7 | 4.3 | 4.8 |
| 1986 | 11.4 | 8.9 | 13.7 | 14.8 | 12.2 |
| 1987 | 8.0 | 3.1 | 2.6 | 2.6 | 4.0 |
| 1988 | 8.5 | 15.4 | 11.1 | 19.1 | 13.5 |
| 1989 | 16.9 | 12.0 | 12.9 | 8.6 | 12.5 |
| 1990 | 12.8 | 18.0 | 15.6 | 16.0 | 15.6 |
| 1991 | 21.1 | 11.1 | 18.0 | 7.5 | 14.3 |
| 1992 | 2.0 | 4.1 | 2.5 | 3.3 | 3.0 |
| 1993 | -2.2 | 2.9 | 1.2 | 2.9 | 1.2 |
| 1994 | 10.2 | -1.2 | 8.7 | -3.6 | 3.5 |
| 1995 | 0.8 | 0.9 | -5.0 | 10.7 | 1.5 |
| 1996 | 0.1 | 9.3 | 10.3 | 0.4 | 5.0 |
| 1997 | -2.3 | -0.7 | -8.0 | -3.2 | -3.6 |
| 1998 | 1.2 | -4.4 | 0.4 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.

NA Not available.

Source: Hawaii State Department of Taxation.

Table C-11. CONTRACTING TAX BASE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 334,272 | 338,664 | 334,815 | 287,120 | 1,294,871 |
| 1983 | 340,254 | 359,006 | 334,889 | 319,256 | 1,353,405 |
| 1984 | 312,026 | 361,768 | 320,497 | 248,638 | 1,242,929 |
| 1985 | 257,651 | 311,747 | 364,373 | 433,962 | 1,367,733 |
| 1986 | 394,202 | 467,996 | 497,432 | 448,394 | 1,808,024 |
| 1987 | 450,880 | 484,490 | 521,333 | 546,353 | 2,003,056 |
| 1988 | 544,825 | 587,327 | 601,054 | 754,365 | 2,487,571 |
| 1989 | 640,644 | 757,843 | 795,745 | 918,614 | 3,112,846 |
| 1990 | 870,004 | 922,296 | 1,108,676 | 1,102,674 | 4,003,650 |
| 1991 | 1,126,100 | 1,043,738 | 1,164,504 | 999,709 | 4,334,051 |
| 1992 | 1,023,106 | 1,051,525 | 977,649 | 960,408 | 4,012,688 |
| 1993 | 964,878 | 960,832 | 965,176 | 912,719 | 3,803,605 |
| 1994 | 827,452 | 837,887 | 838,504 | 818,493 | 3,322,336 |
| 1995 | 776,553 | 760,576 | 751,329 | 845,053 | 3,133,511 |
| 1996 | 824,545 | 814,374 | 838,572 | 807,614 | 3,285,105 |
| 1997 | 685,942 | 777,106 | 734,054 | 747,324 | 2,944,426 |
| 1998 | 721,967 | 656,705 | 770,863 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -11.7 | -16.3 | -20.3 | -30.1 | -19.8 |
| 1983 | 1.8 | 6.0 | 0.0 | 11.2 | 4.5 |
| 1984 | -8.3 | 0.8 | -4.3 | -22.1 | -8.2 |
| 1985 | -17.4 | -13.8 | 13.7 | 74.5 | 10.0 |
| 1986 | 53.0 | 50.1 | 36.5 | 3.3 | 32.2 |
| 1987 | 14.4 | 3.5 | 4.8 | 21.8 | 10.8 |
| 1988 | 20.8 | 21.2 | 15.3 | 38.1 | 24.2 |
| 1989 | 17.6 | 29.0 | 32.4 | 21.8 | 25.1 |
| 1990 | 35.8 | 21.7 | 39.3 | 20.0 | 28.6 |
| 1991 | 29.4 | 13.2 | 5.0 | -9.3 | 8.3 |
| 1992 | -9.1 | 0.7 | -16.0 | -3.9 | -7.4 |
| 1993 | -5.7 | -8.6 | -1.3 | -5.0 | -5.2 |
| 1994 | -14.2 | -12.8 | -13.1 | -10.3 | -12.7 |
| 1995 | -6.2 | -9.2 | -10.4 | 3.2 | -5.7 |
| 1996 | 6.2 | 7.1 | 11.6 | -4.4 | 4.8 |
| 1997 | -16.8 | -4.6 | -12.5 | -7.5 | -10.4 |
| 1998 | 5.3 | -15.5 | 5.0 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.
 NA Not available.

Table C-12. HOTEL RENTAL TAX BASE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 195,584 | 243,439 | 209,859 | 196,044 | 844,926 |
| 1983 | 214,692 | 253,165 | 189,028 | 219,342 | 876,227 |
| 1984 | 232,715 | 275,023 | 246,471 | 230,309 | 984,518 |
| 1985 | 295,480 | 326,170 | 246,638 | 253,980 | 1,122,268 |
| 1986 | 275,501 | 359,893 | 297,845 | 279,543 | 1,212,782 |
| 1987 | 353,207 | 361,774 | 346,049 | 308,371 | 1,369,401 |
| 1988 | 400,643 | 361,727 | 328,343 | 318,178 | 1,408,891 |
| 1989 | 374,604 | 419,068 | 341,650 | 369,749 | 1,505,071 |
| 1990 | 419,848 | 417,017 | 377,150 | 358,979 | 1,572,994 |
| 1991 | 403,527 | 366,835 | 395,916 | 346,712 | 1,512,990 |
| 1992 | 409,099 | 424,199 | 406,846 | 381,607 | 1,621,751 |
| 1993 | 398,447 | 419,241 | 355,320 | 354,033 | 1,527,041 |
| 1994 | 436,807 | 417,732 | 421,289 | 390,577 | 1,666,405 |
| 1995 | 478,429 | 447,115 | 434,281 | 416,700 | 1,776,525 |
| 1996 | 518,041 | 518,184 | 548,120 | 473,455 | 2,057,800 |
| 1997 | 531,801 | 561,954 | 561,840 | 499,723 | 2,155,318 |
| 1998 | 543,863 | 429,408 | 499,334 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 10.3 | 6.2 | 20.3 | 3.4 | 9.6 |
| 1983 | 9.8 | 4.0 | -9.9 | 11.9 | 3.7 |
| 1984 | 8.4 | 8.6 | 30.4 | 5.0 | 12.4 |
| 1985 | 27.0 | 18.6 | 0.1 | 10.3 | 14.0 |
| 1986 | -6.8 | 10.3 | 20.8 | 10.1 | 8.1 |
| 1987 | 28.2 | 0.5 | 16.2 | 10.3 | 12.9 |
| 1988 | 13.4 | 0.0 | -5.1 | 3.2 | 2.9 |
| 1989 | -6.5 | 15.9 | 4.1 | 16.2 | 6.8 |
| 1990 | 12.1 | -0.5 | 10.4 | -2.9 | 4.5 |
| 1991 | -3.9 | -12.0 | 5.0 | -3.4 | -3.8 |
| 1992 | 1.4 | 15.6 | 2.8 | 10.1 | 7.2 |
| 1993 | -2.6 | -1.2 | -12.7 | -7.2 | -5.8 |
| 1994 | 9.6 | -0.4 | 18.6 | 10.3 | 9.1 |
| 1995 | 9.5 | 7.0 | 3.1 | 6.7 | 6.6 |
| 1996 | 8.3 | 15.9 | 26.2 | 13.6 | 15.8 |
| 1997 | 2.7 | 8.4 | 2.5 | 5.5 | 4.7 |
| 1998 | 2.3 | -23.6 | -11.1 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.

NA Not available.

Source: Hawaii State Department of Taxation.

Table C-13. PRODUCING TAX BASE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 47,875 | 45,112 | 40,275 | 40,629 | 173,891 |
| 1983 | 50,716 | 60,626 | 54,558 | 54,398 | 220,298 |
| 1984 | 57,540 | 63,178 | 63,379 | 58,544 | 242,641 |
| 1985 | 77,154 | 67,537 | 60,843 | 57,257 | 262,791 |
| 1986 | 64,550 | 61,755 | 63,766 | 60,883 | 250,954 |
| 1987 | 74,976 | 70,248 | 61,356 | 67,622 | 274,202 |
| 1988 | 81,333 | 74,322 | 71,913 | 70,693 | 298,261 |
| 1989 | 90,773 | 78,690 | 75,323 | 81,614 | 326,400 |
| 1990 | 87,635 | 79,774 | 69,503 | 80,425 | 317,337 |
| 1991 | 84,105 | 79,010 | 76,274 | 62,495 | 301,884 |
| 1992 | 127,453 | 93,733 | 87,652 | 99,824 | 408,662 |
| 1993 | 124,878 | 133,263 | 116,981 | 99,737 | 474,859 |
| 1994 | 127,727 | 118,491 | 116,227 | 104,732 | 467,177 |
| 1995 | 122,320 | 106,695 | 120,023 | 108,500 | 457,538 |
| 1996 | 124,210 | 124,054 | 108,926 | 121,820 | 479,010 |
| 1997 | 133,063 | 121,536 | 137,195 | 113,764 | 505,558 |
| 1998 | 143,317 | 100,819 | 111,177 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 14.8 | -7.9 | -11.9 | 1.2 | -1.5 |
| 1983 | 5.9 | 34.4 | 35.5 | 33.9 | 26.7 |
| 1984 | 13.5 | 4.2 | 16.2 | 7.6 | 10.1 |
| 1985 | 34.1 | 6.9 | -4.0 | -2.2 | 8.3 |
| 1986 | -16.3 | -8.6 | 4.8 | 6.3 | -4.5 |
| 1987 | 16.2 | 13.8 | -3.8 | 11.1 | 9.3 |
| 1988 | 8.5 | 5.8 | 17.2 | 4.5 | 8.8 |
| 1989 | 11.6 | 5.9 | 4.7 | 15.4 | 9.4 |
| 1990 | -3.5 | 1.4 | -7.7 | -1.5 | -2.8 |
| 1991 | -4.0 | -1.0 | 9.7 | -22.3 | -4.9 |
| 1992 | 51.5 | 18.6 | 14.9 | 59.7 | 35.4 |
| 1993 | -2.0 | 42.2 | 33.5 | -0.1 | 16.2 |
| 1994 | 2.3 | -11.1 | -0.6 | 5.0 | -1.6 |
| 1995 | -4.2 | -10.0 | 3.3 | 3.6 | -2.1 |
| 1996 | 1.5 | 16.3 | -9.2 | 12.3 | 4.7 |
| 1997 | 7.1 | -2.0 | 26.0 | -6.6 | 5.5 |
| 1998 | 7.7 | -17.0 | -19.0 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.

NA Not available.

Source: Hawaii State Department of Taxation.

Table C-14. 4% USE TAX BASE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| In Thousands of Dollars | | | | | |
| 1982 | 94,652 | 90,303 | 108,473 | 93,937 | 387,365 |
| 1983 | 62,119 | 67,891 | 59,635 | 87,813 | 277,458 |
| 1984 | 95,454 | 88,974 | 73,464 | 96,727 | 354,619 |
| 1985 | 87,982 | 80,897 | 107,660 | 78,900 | 355,439 |
| 1986 | 70,989 | 72,697 | 73,359 | 62,591 | 279,636 |
| 1987 | 88,779 | 72,244 | 78,505 | 78,261 | 317,789 |
| 1988 | 100,350 | 90,414 | 144,433 | 114,321 | 449,518 |
| 1989 | 101,772 | 168,199 | 97,055 | 110,052 | 477,078 |
| 1990 | 124,085 | 134,412 | 132,334 | 111,095 | 501,926 |
| 1991 | 108,201 | 120,232 | 121,262 | 96,341 | 446,036 |
| 1992 | 104,413 | 97,924 | 98,110 | 119,004 | 419,451 |
| 1993 | 112,965 | 128,294 | 94,469 | 100,971 | 436,699 |
| 1994 | 143,265 | 105,951 | 129,909 | 105,114 | 484,239 |
| 1995 | 130,593 | 117,215 | 109,238 | 104,163 | 461,209 |
| 1996 | 127,211 | 110,913 | 109,062 | 131,226 | 478,412 |
| 1997 | 153,378 | 125,599 | 104,819 | 115,255 | 499,051 |
| 1998 | 118,341 | 98,853 | 115,358 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 92.8 | -32.8 | -33.6 | 4.8 | -11.2 |
| 1983 | -34.4 | -24.8 | -45.0 | -6.5 | -28.4 |
| 1984 | 53.7 | 31.1 | 23.2 | 10.2 | 27.8 |
| 1985 | -7.8 | -9.1 | 46.5 | -18.4 | 0.2 |
| 1986 | -19.3 | -10.1 | -31.9 | -20.7 | -21.3 |
| 1987 | 25.1 | -0.6 | 7.0 | 25.0 | 13.6 |
| 1988 | 13.0 | 25.2 | 84.0 | 46.1 | 41.5 |
| 1989 | 1.4 | 86.0 | -32.8 | -3.7 | 6.1 |
| 1990 | 21.9 | -20.1 | 36.3 | 0.9 | 5.2 |
| 1991 | -12.8 | -10.5 | -8.4 | -13.3 | -11.1 |
| 1992 | -3.5 | -18.6 | -19.1 | 23.5 | -6.0 |
| 1993 | 8.2 | 31.0 | -3.7 | -15.2 | 4.1 |
| 1994 | 26.8 | -17.4 | 37.5 | 4.1 | 10.9 |
| 1995 | -8.8 | 10.6 | -15.9 | -0.9 | -4.8 |
| 1996 | -2.6 | -5.4 | -0.2 | 26.0 | 3.7 |
| 1997 | 20.6 | 13.2 | -3.9 | -12.2 | 4.3 |
| 1998 | -22.8 | -21.3 | 10.1 | (NA) | (NA) |

1997 data were revised by the Hawaii State Department of Taxation in September, 1998.

NA Not available.

Source: Hawaii State Department of Taxation.

D. TOURISM

Using arrivals as an indicator, the visitor industry continued to contract between the third quarters of 1997 and 1998. However, growth in the number of westbound arrivals was still moderating the sharp declines in eastbound arrival numbers. Moreover, lengths of stay were rising primarily due to eastbound traffic.

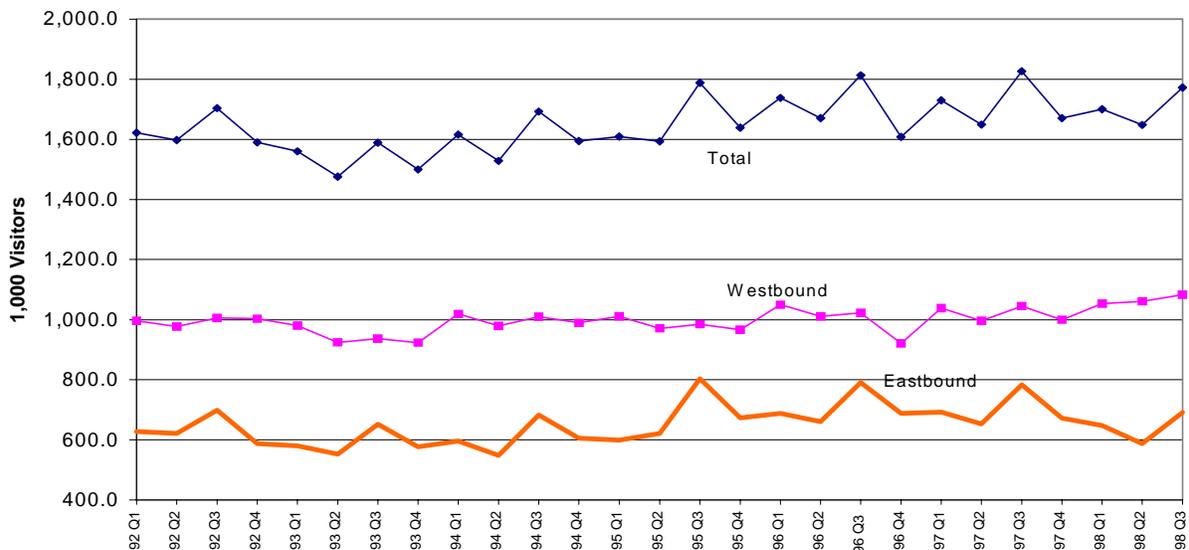
The total number of visitor arrivals fell by 3.0 percent third-quarter to third-quarter (Table D-2). This was the third consecutive quarter of total arrival declines. Through September, total arrivals were down 1.6 percent from the same period in 1997.

The entire decline was due to a drop of 11.8 percent in eastbound arrivals (Table D-4). Eastbound visitor arrivals have been declining since the second quarter of 1997. For the first three quarters of 1998, eastbound arrivals were 9.5 percent lower than for the same period in 1997.

On the other hand, the number of westbound arrivals expanded by 3.6 percent in the third quarter compared to the year-earlier quarter (Table D-3). This marked the fifth consecutive quarter of westbound arrivals growth. Indeed, for the first three quarters of the year, westbound arrivals were higher than at any time since 1991.

Table D-5 shows that the average daily census has been growing faster (in the case of westbound travelers) or falling more slowly (in the case of eastbound travelers) than have arrivals for the third quarter of 1998. This implies that average lengths of stay have been rising. Overall, average length of stay rose 4.4 percent from 7.97 days to 8.32 days between the third quarter of 1997 and the third quarter of 1998. Most of this increase was due to a 6.6 percent increase in the length of stay of eastbound travelers from 5.60 to 5.98 days.

Figure 3. Visitor Arrivals
[number of visitors staying overnight or longer]



Source: Tables D-2 through 4. Total, Westbound and Eastbound Visitor Arrivals.

Table D-1. VISITOR ARRIVALS AND AVERAGE DAILY VISITOR CENSUS

| Year | Visitor Arrivals 1/ | | | Average Number of Visitors Present Daily | | |
|---|---------------------|-----------|-----------|--|-----------|-----------|
| | Total | Westbound | Eastbound | Total | Westbound | Eastbound |
| 1985 | 4,884,110 | 3,708,610 | 1,175,500 | 116,700 | 103,820 | 12,880 |
| 1986 | 5,606,980 | 4,256,390 | 1,350,590 | 132,910 | 118,110 | 14,800 |
| 1987 | 5,799,830 | 4,204,010 | 1,595,820 | 134,270 | 116,780 | 17,490 |
| 1988 | 6,142,420 | 4,264,730 | 1,877,690 | 141,410 | 115,760 | 25,650 |
| 1989 | 6,641,820 | 4,705,320 | 1,936,500 | 169,670 | 135,480 | 34,190 |
| 1990 | 6,971,180 | 4,719,730 | 2,251,450 | 162,070 | 125,590 | 36,480 |
| 1991 | 6,873,890 | 4,584,460 | 2,289,430 | 157,590 | 121,330 | 36,260 |
| 1992 | 6,513,880 | 3,980,120 | 2,533,760 | 153,390 | 113,860 | 39,530 |
| 1993 | 6,124,230 | 3,764,520 | 2,359,710 | 148,750 | 108,090 | 40,660 |
| 1994 | 6,430,300 | 3,997,820 | 2,432,480 | 159,200 | 115,220 | 43,980 |
| 1995 | 6,629,180 | 3,933,110 | 2,696,070 | 159,060 | 113,040 | 46,020 |
| 1996 | 6,829,800 | 4,004,450 | 2,825,350 | 161,610 | 114,440 | 47,170 |
| 1997 2/ | 6,876,140 | 4,077,950 | 2,798,190 | 157,810 | 114,960 | 42,850 |
| 1997 2/ 1 Qtr. | 1,729,650 | 1,038,290 | 691,360 | 170,100 | 126,293 | 43,807 |
| 2 Qtr. | 1,649,090 | 995,630 | 653,460 | 148,533 | 108,713 | 39,820 |
| 3 Qtr. | 1,827,010 | 1,044,620 | 782,390 | 158,323 | 110,660 | 47,663 |
| 4 Qtr. | 1,670,390 | 999,410 | 670,980 | 154,440 | 114,287 | 40,153 |
| 1998 2/ 1 Qtr. | 1,699,880 | 1,053,030 | 646,850 | 168,580 | 129,337 | 39,243 |
| 2 Qtr. | 1,648,060 | 1,060,820 | 587,240 | 148,790 | 113,287 | 35,503 |
| 3 Qtr. | 1,772,450 | 1,082,380 | 690,070 | 160,283 | 115,453 | 44,830 |
| Percentage Change from the Same Period in Previous Year | | | | | | |
| 1985 | 0.6 | -0.3 | 3.6 | -1.7 | -2.3 | 3.9 |
| 1986 | 14.8 | 14.8 | 14.9 | 13.9 | 13.8 | 14.9 |
| 1987 | 3.4 | -1.2 | 18.2 | 1.0 | -1.1 | 18.2 |
| 1988 | 5.9 | 1.4 | 17.7 | 5.3 | -0.9 | 46.7 |
| 1989 | 8.1 | 10.3 | 3.1 | 20.0 | 17.0 | 33.3 |
| 1990 | 5.0 | 0.3 | 16.3 | -4.5 | -7.3 | 6.7 |
| 1991 | -1.4 | -2.9 | 1.7 | -2.8 | -3.4 | -0.6 |
| 1992 | -5.2 | -13.2 | 10.7 | -2.7 | -6.2 | 9.0 |
| 1993 | -6.0 | -5.4 | -6.9 | -3.0 | -5.1 | 2.9 |
| 1994 | 5.0 | 6.2 | 3.1 | 7.0 | 6.6 | 8.2 |
| 1995 | 3.1 | -1.6 | 10.8 | -0.1 | -1.9 | 4.6 |
| 1996 | 3.0 | 1.8 | 4.8 | 1.6 | 1.2 | 2.5 |
| 1997 2/ | 0.7 | 1.8 | -1.0 | -2.4 | 0.5 | -9.2 |
| 1997 2/ 1 Qtr. | -0.5 | -1.1 | 0.5 | -3.0 | -1.1 | -8.2 |
| 2 Qtr. | -1.3 | -1.5 | -1.0 | -4.3 | -1.0 | -12.5 |
| 3 Qtr. | 0.7 | 2.2 | -1.1 | -0.7 | 0.7 | -3.8 |
| 4 Qtr. | 3.9 | 8.5 | -2.3 | -1.3 | 3.3 | -12.5 |
| 1998 2/ 1 Qtr. | -1.7 | 1.4 | -6.4 | -0.9 | 2.4 | -10.4 |
| 2 Qtr. | -0.1 | 6.5 | -10.1 | 0.2 | 4.2 | -10.8 |
| 3 Qtr. | -3.0 | 3.6 | -11.8 | 1.2 | 4.3 | -5.9 |

1/ Staying overnight or longer.

2/ Hawaii Visitors & Convention Bureau revised data for 1997 and 1998 in June, 1998.

Source: Hawaii Visitors & Convention Bureau.

Table D-2. TOTAL VISITOR ARRIVALS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Persons 1/ | | | | | |
| 1982 | 1,054.0 | 1,048.7 | 1,110.7 | 1,029.5 | 4,242.9 |
| 1983 | 1,069.9 | 1,071.5 | 1,146.4 | 1,080.2 | 4,368.1 |
| 1984 | 1,218.5 | 1,206.8 | 1,222.9 | 1,207.4 | 4,855.6 |
| 1985 | 1,301.5 | 1,129.6 | 1,266.9 | 1,186.2 | 4,884.1 |
| 1986 | 1,393.2 | 1,421.2 | 1,450.9 | 1,341.8 | 5,607.0 |
| 1987 | 1,448.9 | 1,370.0 | 1,555.2 | 1,425.8 | 5,799.8 |
| 1988 | 1,484.9 | 1,488.2 | 1,635.6 | 1,533.7 | 6,142.4 |
| 1989 | 1,683.7 | 1,605.1 | 1,754.8 | 1,598.3 | 6,641.8 |
| 1990 | 1,714.8 | 1,724.4 | 1,879.9 | 1,652.2 | 6,971.2 |
| 1991 | 1,509.5 | 1,727.2 | 1,958.3 | 1,678.9 | 6,873.9 |
| 1992 | 1,622.2 | 1,598.0 | 1,703.6 | 1,590.1 | 6,513.9 |
| 1993 | 1,559.6 | 1,476.3 | 1,588.9 | 1,499.5 | 6,124.2 |
| 1994 | 1,615.6 | 1,527.7 | 1,692.7 | 1,594.2 | 6,430.3 |
| 1995 | 1,609.4 | 1,593.0 | 1,788.4 | 1,638.5 | 6,629.2 |
| 1996 | 1,737.7 | 1,670.4 | 1,813.7 | 1,608.1 | 6,829.8 |
| 1997 2/ | 1,729.7 | 1,649.1 | 1,827.0 | 1,670.4 | 6,876.1 |
| 1998 2/ | 1,699.9 | 1,648.1 | 1,772.5 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 9.9 | 6.5 | 6.6 | 8.5 | 7.8 |
| 1983 | 1.5 | 2.2 | 3.2 | 4.9 | 3.0 |
| 1984 | 13.9 | 12.6 | 6.7 | 11.8 | 11.2 |
| 1985 | 6.8 | -6.4 | 3.6 | -1.8 | 0.6 |
| 1986 | 7.0 | 25.8 | 14.5 | 13.1 | 14.8 |
| 1987 | 4.0 | -3.6 | 7.2 | 6.3 | 3.4 |
| 1988 | 2.5 | 8.6 | 5.2 | 7.6 | 5.9 |
| 1989 | 13.4 | 7.9 | 7.3 | 4.2 | 8.1 |
| 1990 | 1.8 | 7.4 | 7.1 | 3.4 | 5.0 |
| 1991 | -12.0 | 0.2 | 4.2 | 1.6 | -1.4 |
| 1992 | 7.5 | -7.5 | -13.0 | -5.3 | -5.2 |
| 1993 | -3.9 | -7.6 | -6.7 | -5.7 | -6.0 |
| 1994 | 3.6 | 3.5 | 6.5 | 6.3 | 5.0 |
| 1995 | -0.4 | 4.3 | 5.6 | 2.8 | 3.1 |
| 1996 | 8.0 | 4.9 | 1.4 | -1.9 | 3.0 |
| 1997 2/ | -0.5 | -1.3 | 0.7 | 3.9 | 0.7 |
| 1998 2/ | -1.7 | -0.1 | -3.0 | (NA) | (NA) |

NA Not available.

1/ Staying Overnight or Longer.

2/ Visitor arrivals for 1997 and 1998 revised by Hawaii Visitors & Convention Bureau in June 1998.

Source: Hawaii Visitors & Convention Bureau.

Table D-3. WESTBOUND VISITOR ARRIVALS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| In Thousands of Persons 1/ | | | | | |
| 1982 | 828.0 | 795.9 | 865.6 | 789.1 | 3,278.5 |
| 1983 | 845.4 | 828.1 | 893.9 | 828.6 | 3,396.1 |
| 1984 | 954.3 | 923.0 | 922.8 | 921.3 | 3,721.4 |
| 1985 | 1,011.8 | 840.2 | 957.8 | 898.9 | 3,708.6 |
| 1986 | 1,087.6 | 1,094.3 | 1,073.1 | 1,001.4 | 4,256.4 |
| 1987 | 1,084.1 | 999.9 | 1,102.4 | 1,017.6 | 4,204.0 |
| 1988 | 1,047.4 | 1,028.8 | 1,088.1 | 1,100.4 | 4,264.7 |
| 1989 | 1,198.6 | 1,145.6 | 1,213.7 | 1,147.4 | 4,705.3 |
| 1990 | 1,179.4 | 1,189.3 | 1,245.3 | 1,105.7 | 4,719.7 |
| 1991 | 1,066.9 | 1,175.7 | 1,255.0 | 1,087.0 | 4,584.5 |
| 1992 | 995.8 | 976.5 | 1,004.6 | 1,003.3 | 3,980.1 |
| 1993 | 979.8 | 924.5 | 937.1 | 923.1 | 3,764.5 |
| 1994 | 1,019.3 | 979.1 | 1,009.8 | 989.6 | 3,997.8 |
| 1995 | 1,010.7 | 971.4 | 985.0 | 966.1 | 3,933.1 |
| 1996 | 1,050.1 | 1,010.6 | 1,022.4 | 921.3 | 4,004.5 |
| 1997 2/ | 1,038.3 | 995.6 | 1,044.6 | 999.4 | 4,078.0 |
| 1998 2/ | 1,053.0 | 1,060.8 | 1,082.4 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 12.9 | 7.5 | 9.4 | 11.1 | 10.2 |
| 1983 | 2.1 | 4.1 | 3.3 | 5.0 | 3.6 |
| 1984 | 12.9 | 11.5 | 3.2 | 11.2 | 9.6 |
| 1985 | 6.0 | -9.0 | 3.8 | -2.4 | -0.3 |
| 1986 | 7.5 | 30.2 | 12.0 | 11.4 | 14.8 |
| 1987 | -0.3 | -8.6 | 2.7 | 1.6 | -1.2 |
| 1988 | -3.4 | 2.9 | -1.3 | 8.1 | 1.4 |
| 1989 | 14.4 | 11.4 | 11.5 | 4.3 | 10.3 |
| 1990 | -1.6 | 3.8 | 2.6 | -3.6 | 0.3 |
| 1991 | -9.5 | -1.1 | 0.8 | -1.7 | -2.9 |
| 1992 | -6.7 | -16.9 | -19.9 | -7.7 | -13.2 |
| 1993 | -1.6 | -5.3 | -6.7 | -8.0 | -5.4 |
| 1994 | 4.0 | 5.9 | 7.8 | 7.2 | 6.2 |
| 1995 | -0.8 | -0.8 | -2.5 | -2.4 | -1.6 |
| 1996 | 3.9 | 4.0 | 3.8 | -4.6 | 1.8 |
| 1997 2/ | -1.1 | -1.5 | 2.2 | 8.5 | 1.8 |
| 1998 2/ | 1.4 | 6.5 | 3.6 | (NA) | (NA) |

NA Not available.

1/ Staying Overnight or Longer.

2/ Visitor arrivals for 1997 and 1998 revised by Hawaii Visitors & Convention Bureau on June 1998.

Source: Hawaii Visitors & Convention Bureau.

Table D-4. EASTBOUND VISITOR ARRIVALS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Thousands of Persons 1/ | | | | | |
| 1982 | 226.1 | 252.8 | 245.2 | 240.4 | 964.4 |
| 1983 | 224.5 | 243.4 | 252.4 | 251.6 | 972.0 |
| 1984 | 264.2 | 283.8 | 300.1 | 286.1 | 1,134.2 |
| 1985 | 289.7 | 289.4 | 309.1 | 287.3 | 1,175.5 |
| 1986 | 305.5 | 326.9 | 377.7 | 340.4 | 1,350.6 |
| 1987 | 364.8 | 370.1 | 452.8 | 408.2 | 1,595.8 |
| 1988 | 437.5 | 459.4 | 547.5 | 433.3 | 1,877.7 |
| 1989 | 485.1 | 459.6 | 541.0 | 450.9 | 1,936.5 |
| 1990 | 535.3 | 535.1 | 634.6 | 546.5 | 2,251.5 |
| 1991 | 442.6 | 551.5 | 703.3 | 592.0 | 2,289.4 |
| 1992 | 626.4 | 621.5 | 699.0 | 586.9 | 2,533.8 |
| 1993 | 579.8 | 551.7 | 651.7 | 576.4 | 2,359.7 |
| 1994 | 596.3 | 548.6 | 682.9 | 604.6 | 2,432.5 |
| 1995 | 598.7 | 621.6 | 803.4 | 672.4 | 2,696.1 |
| 1996 | 687.6 | 659.8 | 791.2 | 686.7 | 2,825.4 |
| 1997 2/ | 691.4 | 653.5 | 782.4 | 671.0 | 2,798.2 |
| 1998 2/ | 646.9 | 587.2 | 690.1 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 0.1 | 3.5 | -2.3 | 0.7 | 0.5 |
| 1983 | -0.7 | -3.7 | 3.0 | 4.7 | 0.8 |
| 1984 | 17.7 | 16.6 | 18.9 | 13.7 | 16.7 |
| 1985 | 9.6 | 2.0 | 3.0 | 0.4 | 3.6 |
| 1986 | 5.5 | 13.0 | 22.2 | 18.5 | 14.9 |
| 1987 | 19.4 | 13.2 | 19.9 | 19.9 | 18.2 |
| 1988 | 19.9 | 24.1 | 20.9 | 6.2 | 17.7 |
| 1989 | 10.9 | 0.0 | -1.2 | 4.0 | 3.1 |
| 1990 | 10.4 | 16.4 | 17.3 | 21.2 | 16.3 |
| 1991 | -17.3 | 3.1 | 10.8 | 8.3 | 1.7 |
| 1992 | 41.5 | 12.7 | -0.6 | -0.9 | 10.7 |
| 1993 | -7.4 | -11.2 | -6.8 | -1.8 | -6.9 |
| 1994 | 2.8 | -0.6 | 4.8 | 4.9 | 3.1 |
| 1995 | 0.4 | 13.3 | 17.6 | 11.2 | 10.8 |
| 1996 | 14.9 | 6.1 | -1.5 | 2.1 | 4.8 |
| 1997 2/ | 0.5 | -1.0 | -1.1 | -2.3 | -1.0 |
| 1998 2/ | -6.4 | -10.1 | -11.8 | (NA) | (NA) |

NA Not available.

1/ Staying Overnight or Longer.

2/ Visitor arrivals for 1997 and 1998 revised by Hawaii Visitors & Convention Bureau in June 1998.

Source: Hawaii Visitors & Convention Bureau.

Table D-5. AVERAGE DAILY VISITOR CENSUS

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Average Daily Visitors | | | | | |
| 1990 | 168,400 | 155,350 | 170,150 | 154,350 | 162,070 |
| 1991 | 149,950 | 161,200 | 171,400 | 146,750 | 157,590 |
| 1992 | 160,850 | 146,150 | 155,050 | 151,300 | 153,390 |
| 1993 | 157,500 | 137,700 | 151,800 | 148,000 | 148,750 |
| 1994 | 174,600 | 143,500 | 157,450 | 161,400 | 159,200 |
| 1995 | 167,450 | 149,200 | 162,750 | 156,800 | 159,060 |
| 1996 | 175,384 | 155,255 | 159,437 | 156,513 | 161,610 |
| 1997 | 170,100 | 148,533 | 158,323 | 154,440 | 157,810 |
| 1998 | 168,580 | 148,790 | 160,283 | (NA) | (NA) |
| Average Daily Westbound Visitors | | | | | |
| 1990 | 132,950 | 122,400 | 127,700 | 119,450 | 125,590 |
| 1991 | 119,350 | 127,150 | 127,350 | 110,800 | 121,330 |
| 1992 | 123,150 | 108,450 | 109,950 | 113,700 | 113,860 |
| 1993 | 119,900 | 101,800 | 103,200 | 107,600 | 108,090 |
| 1994 | 127,550 | 106,300 | 109,700 | 117,550 | 115,220 |
| 1995 | 124,350 | 106,450 | 107,750 | 113,800 | 113,040 |
| 1996 | 127,678 | 109,757 | 109,883 | 110,635 | 114,440 |
| 1997 | 126,293 | 108,713 | 110,660 | 114,287 | 114,960 |
| 1998 | 129,337 | 113,287 | 115,453 | (NA) | (NA) |
| Average Daily Eastbound Visitors | | | | | |
| 1990 | 35,450 | 32,950 | 42,450 | 34,900 | 36,480 |
| 1991 | 30,600 | 34,050 | 44,050 | 35,950 | 36,260 |
| 1992 | 37,700 | 37,700 | 45,100 | 37,600 | 39,530 |
| 1993 | 37,600 | 35,900 | 48,600 | 40,400 | 40,660 |
| 1994 | 47,050 | 37,200 | 47,750 | 43,850 | 43,980 |
| 1995 | 43,100 | 42,750 | 55,000 | 43,000 | 46,020 |
| 1996 | 47,706 | 45,498 | 49,554 | 45,879 | 47,170 |
| 1997 | 43,807 | 39,820 | 47,663 | 40,153 | 42,850 |
| 1998 | 39,243 | 35,503 | 44,830 | (NA) | (NA) |

NA Not available.

Source: Hawaii Visitors & Convention Bureau.

Table D-5. AVERAGE DAILY VISITOR CENSUS - Con.

[percentage change from the same period in previous year]

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|----------------------|-----------------------|----------------------|-----------------------|---------------|
| Average Daily Visitors | | | | | |
| 1991 | -11.0 | 3.8 | 0.7 | -4.9 | -2.8 |
| 1992 | 7.3 | -9.3 | -9.5 | 3.1 | -2.7 |
| 1993 | -2.1 | -5.8 | -2.1 | -2.2 | -3.0 |
| 1994 | 10.9 | 4.2 | 3.7 | 9.1 | 7.0 |
| 1995 | -4.1 | 2.3 | 3.4 | -2.9 | -0.1 |
| 1996 | 6.3 | 0.4 | 0.2 | -0.8 | 1.6 |
| 1997 | -3.0 | -4.3 | -0.7 | -1.3 | -2.4 |
| 1998 | -0.9 | 0.2 | 1.2 | (NA) | (NA) |
| Average Daily Westbound Visitors | | | | | |
| 1991 | -10.2 | 3.9 | -0.3 | -7.2 | -3.4 |
| 1992 | 3.2 | -14.7 | -13.7 | 2.6 | -6.2 |
| 1993 | -2.6 | -6.1 | -6.1 | -5.4 | -5.1 |
| 1994 | 6.4 | 4.4 | 6.3 | 9.2 | 6.6 |
| 1995 | -2.5 | 0.1 | -1.8 | -3.2 | -1.9 |
| 1996 | 3.4 | 2.3 | 1.9 | -2.9 | 1.2 |
| 1997 | -1.1 | -1.0 | 0.7 | 3.3 | 0.5 |
| 1998 | 2.4 | 4.2 | 4.3 | (NA) | (NA) |
| Average Daily Eastbound Visitors | | | | | |
| 1991 | -13.7 | 3.3 | 3.8 | 3.0 | -0.6 |
| 1992 | 23.2 | 10.7 | 2.4 | 4.6 | 9.0 |
| 1993 | -0.3 | -4.8 | 7.8 | 7.4 | 2.9 |
| 1994 | 25.1 | 3.6 | -1.7 | 8.5 | 8.2 |
| 1995 | -8.4 | 8.6 | 15.2 | -5.3 | 4.6 |
| 1996 | 14.6 | -4.3 | -3.0 | 1.6 | 2.5 |
| 1997 | -8.2 | -12.5 | -8.5 | 1.6 | -9.2 |
| 1998 | -10.4 | -10.8 | -5.9 | (NA) | (NA) |

NA Not available.

Source: Hawaii Visitors & Convention Bureau.

Table D-6. HOTEL OCCUPANCY RATE

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|-------------|----------------------|-----------------------|----------------------|-----------------------|---------------|
| In Percent | | | | | |
| 1982 | 79.0 | 65.9 | 70.9 | 66.7 | 70.6 |
| 1983 | 75.2 | 68.1 | 71.7 | 66.5 | 70.4 |
| 1984 | 84.0 | 75.6 | 74.6 | 75.1 | 77.3 |
| 1985 | 88.1 | 69.1 | 75.0 | 72.5 | 76.2 |
| 1986 | 87.0 | 78.8 | 79.9 | 76.8 | 80.6 |
| 1987 | 88.0 | 77.1 | 82.1 | 77.8 | 81.2 |
| 1988 | 81.7 | 75.1 | 81.3 | 75.1 | 78.3 |
| 1989 | 85.9 | 73.9 | 81.0 | 75.7 | 79.1 |
| 1990 | 83.9 | 75.5 | 81.0 | 74.3 | 78.7 |
| 1991 | 68.2 | 70.7 | 79.7 | 72.5 | 72.8 |
| 1992 | 75.3 | 68.6 | 75.5 | 75.2 | 73.6 |
| 1993 | 75.3 | 67.9 | 73.8 | 72.5 | 72.4 |
| 1994 | 80.9 | 72.7 | 79.1 | 74.8 | 76.9 |
| 1995 | 80.2 | 72.6 | 80.4 | 75.4 | 77.2 |
| 1996 | 82.1 | 72.5 | 78.5 | 71.0 | 76.0 |
| 1997 | 79.3 | 70.3 | 76.2 | 70.0 | 74.0 |
| 1998 | 78.1 | 69.5 | 73.8 | (NA) | (NA) |

NA Not available.

Source: PKF-Hawaii and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

E. CONSTRUCTION

There was some improvement in construction activity in the third quarter. The value of private construction authorizations rose, as did the number of new multi-family building authorizations. The contracting tax base, reflecting recent construction activity, was also somewhat higher. However for the year-to-date, several of these indicators remained below last year's levels.

Table E-1 indicates that the value of private construction authorizations expanded by 11.2 percent from the third quarter of 1997 through the third quarter of 1998. Most of the increase was due to a sharp rise in the value of permits for additions and alterations (25.8 percent). The value of commercial and industrial authorizations also grew by 17.7 percent over the period. Together, these sources of growth managed to offset the 7.1 percent decline in the value of residential authorizations. Moreover, the contracting tax base, an estimate of the value of recent construction activity, grew by 5.0 percent over the period.

However, for the year through September 1998 these indicators remained below the levels for the first nine months of 1997. The estimated value of total private authorizations was down 15.6 percent over the period, with commercial and industrial authorizations off 27.8 percent and residential authorizations down by 17.9 percent. The contracting tax base was also lower by 2.2 percent from the first nine months of 1997 through the first nine months of 1998.

The *number* (rather than the estimated value) of single family home authorizations was down by 4.6 percent from the third quarter of 1997 through the third quarter of

1998 (Table E-2). However for the year through September, single family authorizations were up by about 13 percent.

In contrast, the number of multi-family authorizations grew by 2.0 percent in the third quarter of 1998 over the year-earlier quarter. But for the year through September, multi-family authorizations were down by 63.5 percent. This drop reflected two large projects that were authorized in the second quarter of 1997.

Measured by the value of private authorizations, construction was up in all counties from the third quarter of 1997 through the third quarter of 1998 (Table E-6). The largest percentage increases came in Maui and Kauai counties. City and County of Honolulu had the smallest increase of 2.2 percent. For the year through September, only Hawaii and Maui counties experienced annual increases (of 15.5 percent and 8.5 percent, respectively). From the first nine months in 1997 through the first nine months of 1998 private authorizations fell in Kauai County by 17.2 percent and in the City and County of Honolulu by 25.6 percent.

From the public sector, state capital improvement project (CIP) expenditures rose 7.7 percent from the third quarter of 1997 through the third quarter of 1998 (Table E-7). For the first nine months of 1998, CIP expenditures rose 17.2 percent, largely as a result of revenue bonds issued for the state housing loan program. Finally, government contracts awarded grew by 8.9 percent in the third quarter (Table E-1), but remained slightly down for the year through September.

**Table E-1. ESTIMATED VALUE OF COMPLETED CONSTRUCTION,
NEW PRIVATE BUILDING AUTHORIZATIONS, AND
GOVERNMENT CONTRACTS AWARDED**

| Year | Contracting tax base 1/ | Private Building Authorization | | | | Government |
|------------------------|----------------------------|---------------------------------|-------------|-------------------------------|----------------------------|----------------------|
| | | Total Private Authorizations | Residential | Commercial & Industrial 2/ | Additions & Alterations | Contracts Awarded |
| In Millions of Dollars | | | | | | |
| 1982 | 1,294.9 | 683.1 | 299.2 | 242.9 | 141.1 | 391.6 |
| 1983 | 1,353.4 | 685.2 | 296.2 | 203.2 | 185.9 | 275.0 |
| 1984 | 1,242.9 | 581.5 | 327.7 | 104.0 | 149.9 | 388.7 |
| 1985 | 1,367.7 | 888.4 | 500.1 | 208.8 | 180.1 | 248.9 |
| 1986 | 1,808.0 | 1,025.2 | 455.5 | 267.4 | 302.3 | 422.7 |
| 1987 | 2,003.1 | 1,161.9 | 507.0 | 344.4 | 310.5 | 370.9 |
| 1988 | 2,487.6 | 1,546.5 | 689.2 | 541.2 | 316.1 | 665.0 |
| 1989 | 3,112.8 | 1,882.4 | 910.7 | 561.8 | 409.9 | 725.2 |
| 1990 | 4,003.7 | 2,101.8 | 952.3 | 698.0 | 451.5 | 825.5 |
| 1991 | 4,334.1 | 2,151.8 | 1,192.0 | 556.2 | 403.7 | 729.4 |
| 1992 | 4,012.7 | 1,751.9 | 811.1 | 532.3 | 408.5 | 1,159.1 |
| 1993 | 3,803.6 | 1,496.5 | 734.7 | 306.3 | 455.5 | 651.8 |
| 1994 | 3,322.3 | 1,612.9 | 849.3 | 370.3 | 393.4 | 693.0 |
| 1995 | 3,133.5 | 1,531.3 | 745.5 | 368.3 | 417.5 | 490.2 |
| 1996 | 3,285.1 | 1,117.8 | 487.0 | 252.8 | 378.0 | 885.5 |
| 1997 | 2,944.4 | 1,179.2 | 542.5 | 264.5 | 372.2 | 615.6 |
| 1997 1 Qtr. | 685.9 | 259.0 | 88.4 | 72.8 | 97.8 | 181.8 |
| 2 Qtr. | 777.1 | 426.2 | 220.8 | 93.6 | 111.8 | 121.6 |
| 3 Qtr. | 734.1 | 266.0 | 132.9 | 46.8 | 86.4 | 200.9 |
| 4 Qtr. | 747.3 | 228.1 | 100.5 | 51.4 | 76.3 | 111.3 |
| 1998 1 Qtr. | 722.0 | 260.5 | 118.2 | 50.4 | 91.9 | 155.3 |
| 2 Qtr. | 656.7 | 246.7 | 121.3 | 48.5 | 76.9 | 127.5 |
| 3 Qtr. | 770.9 | 295.9 | 123.5 | 55.1 | 117.3 | 218.7 |

First Hawaiian Bank has discontinued compiling Government Contracts Awarded. Hawaii State Department of Business, Economic Development & Tourism has compiled preliminary estimates for fourth quarter 1997 and first through third Quarters 1998 based on data in *Building Industry*.

1/ Formerly, this category was "Value of Construction Completed".

2/ Includes hotels.

Source: Hawaii State Department of Taxation; F. W. Dodge; county building departments; First Hawaiian Bank; *Building Industry* (various issues) and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

**Table E-1. ESTIMATED VALUE OF COMPLETED CONSTRUCTION,
NEW PRIVATE BUILDING AUTHORIZATIONS, AND
GOVERNMENT CONTRACTS AWARDED - Con.**

| Year | Contracting tax base 1/ | Private Building Authorization | | | | Government |
|---|----------------------------|---------------------------------|-------------|-------------------------------|----------------------------|----------------------|
| | | Total Private Authorizations | Residential | Commercial & Industrial 2/ | Additions & Alterations | Contracts Awarded |
| Percentage Change from the Same Period in Previous Year | | | | | | |
| 1982 | -19.8 | -14.8 | -24.9 | 0.9 | -13.4 | -8.8 |
| 1983 | 4.5 | 0.3 | -1.0 | -16.3 | 31.8 | -29.8 |
| 1984 | -8.2 | -15.1 | 10.6 | -48.8 | -19.4 | 41.3 |
| 1985 | 10.0 | 52.8 | 52.6 | 100.8 | 20.1 | -36.0 |
| 1986 | 32.2 | 15.4 | -8.9 | 28.1 | 67.9 | 69.8 |
| 1987 | 10.8 | 13.3 | 11.3 | 28.8 | 2.7 | -12.3 |
| 1988 | 24.2 | 33.1 | 35.9 | 57.1 | 1.8 | 79.3 |
| 1989 | 25.1 | 21.7 | 32.1 | 3.8 | 29.7 | 9.1 |
| 1990 | 28.6 | 11.7 | 4.6 | 24.2 | 10.1 | 13.8 |
| 1991 | 8.3 | 2.4 | 25.2 | -20.3 | -10.6 | -11.6 |
| 1992 | -7.4 | -18.6 | -32.0 | -4.3 | 1.2 | 58.9 |
| 1993 | -5.2 | -14.6 | -9.4 | -42.5 | 11.5 | -43.8 |
| 1994 | -12.7 | 7.8 | 15.6 | 20.9 | -13.6 | 6.3 |
| 1995 | -5.7 | -5.1 | -12.2 | -0.5 | 6.1 | -29.3 |
| 1996 | 4.8 | -27.0 | -34.7 | -31.4 | -9.5 | 80.6 |
| 1997 | -10.4 | 5.5 | 11.4 | 4.6 | -1.5 | -30.5 |
| 1997 1 Qtr. | -16.8 | -7.7 | -25.3 | -7.3 | 16.8 | -43.1 |
| 2 Qtr. | -4.6 | 58.7 | 122.5 | 49.8 | 5.0 | 55.9 |
| 3 Qtr. | -12.5 | -24.5 | -25.3 | -27.7 | -21.4 | -37.9 |
| 4 Qtr. | -7.5 | 5.2 | 10.1 | 8.7 | -5.8 | -32.3 |
| 1998 1 Qtr. | 5.3 | 5.7 | 33.7 | -30.8 | -5.9 | -14.6 |
| 2 Qtr. | -15.5 | -42.0 | -45.1 | -48.2 | -30.9 | 4.8 |
| 3 Qtr. | 5.0 | 11.2 | -7.1 | 17.7 | 35.8 | 8.9 |

First Hawaiian Bank has discontinued compiling Government Contracts Awarded. Hawaii State Department of Business, Economic Development & Tourism has compiled preliminary estimates for fourth quarter 1997 and first through third Quarters 1998 based on data in *Building Industry*.

1/ Formerly, this category was "Value of Construction Completed".

2/ Includes hotels.

Source: Hawaii State Department of Taxation; F. W. Dodge; county building departments; First Hawaiian Bank;

Table E-2. SINGLE FAMILY UNITS AUTHORIZED

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Units | | | | | |
| 1982 | 472 | 536 | 626 | 651 | 2,285 |
| 1983 | 896 | 952 | 862 | 707 | 3,417 |
| 1984 | 1,092 | 1,324 | 1,115 | 911 | 4,442 |
| 1985 | 802 | 1,236 | 1,644 | 1,269 | 4,951 |
| 1986 | 925 | 1,226 | 1,354 | 1,195 | 4,700 |
| 1987 | 1,523 | 1,639 | 1,429 | 1,475 | 6,066 |
| 1988 | 1,323 | 1,767 | 2,096 | 1,114 | 6,290 |
| 1989 | 1,474 | 1,620 | 1,993 | 1,777 | 6,858 |
| 1990 | 1,922 | 1,476 | 1,132 | 1,472 | 6,002 |
| 1991 | 1,094 | 1,010 | 1,303 | 1,419 | 4,826 |
| 1992 | 1,317 | 1,058 | 1,388 | 816 | 4,576 |
| 1993 | 1,147 | 1,311 | 1,064 | 1,228 | 4,750 |
| 1994 | 961 | 963 | 1,426 | 1,226 | 4,576 |
| 1995 | 796 | 1,138 | 1,180 | 778 | 3,892 |
| 1996 | 756 | 630 | 880 | 540 | 2,806 |
| 1997 | 533 | 757 | 784 | 628 | 2,702 |
| 1998 | 808 | 788 | 748 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -39.1 | -23.1 | -1.9 | 20.8 | -13.7 |
| 1983 | 89.8 | 77.6 | 37.7 | 8.6 | 49.5 |
| 1984 | 21.9 | 39.1 | 29.4 | 28.9 | 30.0 |
| 1985 | -26.6 | -6.6 | 47.4 | 39.3 | 11.5 |
| 1986 | 15.3 | -0.8 | -17.6 | -5.8 | -5.1 |
| 1987 | 64.6 | 33.7 | 5.5 | 23.4 | 29.1 |
| 1988 | -13.1 | 7.8 | 46.7 | -24.5 | 3.7 |
| 1989 | 11.4 | -8.3 | -4.9 | 59.5 | 9.0 |
| 1990 | 30.4 | -8.9 | -43.2 | -17.2 | -12.5 |
| 1991 | -43.1 | -31.6 | 15.1 | -3.6 | -19.6 |
| 1992 | 20.4 | 4.8 | 6.5 | -42.5 | -5.2 |
| 1993 | -12.9 | 23.9 | -23.3 | 50.5 | 3.8 |
| 1994 | -16.2 | -26.5 | 34.0 | -0.2 | -3.7 |
| 1995 | -17.2 | 18.2 | -17.3 | -36.5 | -14.9 |
| 1996 | -5.0 | -44.6 | -25.4 | -30.6 | -27.9 |
| 1997 | -29.5 | 20.2 | -10.9 | 16.3 | -3.7 |
| 1998 | 51.6 | 4.1 | -4.6 | (NA) | (NA) |

NA Not available.

Source: F. W. Dodge; county building departments.

Table E-3. MULTI-FAMILY UNITS AUTHORIZED

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Number of Units | | | | | |
| 1982 | 313 | 182 | 1,831 | 2,268 | 4,594 |
| 1983 | 11 | 158 | 1,058 | 104 | 1,331 |
| 1984 | 61 | 331 | 134 | 495 | 1,021 |
| 1985 | 1,151 | 696 | 291 | 312 | 2,450 |
| 1986 | 1,247 | 299 | 509 | 424 | 2,479 |
| 1987 | 488 | 567 | 99 | 305 | 1,459 |
| 1988 | 428 | 702 | 528 | 935 | 2,593 |
| 1989 | 309 | 1,501 | 664 | 457 | 2,931 |
| 1990 | 495 | 690 | 349 | 1,138 | 2,672 |
| 1991 | 2,330 | 973 | 764 | 736 | 4,803 |
| 1992 | 520 | 484 | 1,219 | 517 | 2,740 |
| 1993 | 272 | 556 | 1,120 | 476 | 2,424 |
| 1994 | 427 | 974 | 630 | 774 | 2,805 |
| 1995 | 1,290 | 290 | 874 | 192 | 2,646 |
| 1996 | 220 | 108 | 469 | 312 | 1,109 |
| 1997 | 97 | 655 | 152 | 204 | 1,108 |
| 1998 | 129 | 46 | 155 | (NA) | (NA) |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | -57.8 | -90.3 | 347.7 | 1,889.5 | 46.2 |
| 1983 | -96.5 | -13.2 | -42.2 | -95.4 | -71.0 |
| 1984 | 454.5 | 109.5 | -87.3 | 376.0 | -23.3 |
| 1985 | 1,786.9 | 110.3 | 117.2 | -37.0 | 140.0 |
| 1986 | 8.3 | -57.0 | 74.9 | 35.9 | 1.2 |
| 1987 | -60.9 | 89.6 | -80.6 | -28.1 | -41.1 |
| 1988 | -12.3 | 23.8 | 433.3 | 206.6 | 77.7 |
| 1989 | -27.8 | 113.8 | 25.8 | -51.1 | 13.0 |
| 1990 | 60.2 | -54.0 | -47.4 | 149.0 | -8.8 |
| 1991 | 370.7 | 41.0 | 118.9 | -35.3 | 79.8 |
| 1992 | -77.7 | -50.3 | 59.6 | -29.8 | -43.0 |
| 1993 | -47.7 | 14.9 | -8.1 | -7.9 | -11.5 |
| 1994 | 57.0 | 75.2 | -43.8 | 62.6 | 15.7 |
| 1995 | 202.1 | -70.2 | 38.7 | -75.2 | -5.7 |
| 1996 | -82.9 | -62.8 | -46.3 | 62.5 | -58.1 |
| 1997 | -55.9 | 506.5 | -67.6 | -34.6 | -0.1 |
| 1998 | 33.0 | -93.0 | 2.0 | (NA) | (NA) |

NA Not available.

Source: F. W. Dodge; county building departments.

**Table E-4. HONOLULU CONSTRUCTION COST INDEX:
SINGLE FAMILY RESIDENCE**

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Index Numbers January 1992 = 100 | | | | | |
| 1982 | 65.4 | 64.5 | 65.0 | 66.3 | 65.3 |
| 1983 | 69.6 | 71.0 | 72.4 | 73.1 | 71.5 |
| 1984 | 74.7 | 74.3 | 74.5 | 75.0 | 74.6 |
| 1985 | 76.1 | 75.7 | 77.6 | 77.2 | 76.6 |
| 1986 | 78.5 | 78.1 | 79.1 | 81.5 | 79.3 |
| 1987 | 80.9 | 81.3 | 82.5 | 83.6 | 82.1 |
| 1988 | 86.7 | 85.4 | 86.6 | 88.0 | 86.7 |
| 1989 | 89.5 | 90.5 | 90.3 | 91.5 | 90.5 |
| 1990 | 91.6 | 92.5 | 97.3 | 99.0 | 95.1 |
| 1991 | 98.6 | 97.7 | 98.3 | 99.1 | 98.4 |
| 1992 | 101.5 | 102.7 | 103.1 | 103.3 | 102.7 |
| 1993 | 108.2 | 114.9 | 112.2 | 110.6 | 111.5 |
| 1994 | 118.4 | 124.3 | 121.6 | 120.5 | 121.2 |
| 1995 | 117.6 | 117.8 | 118.3 | 119.3 | 118.2 |
| 1996 | 120.7 | 122.5 | 129.3 | 129.6 | 125.5 |
| 1997 | 128.1 | 129.2 | 130.2 | 129.7 | 129.3 |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 6.2 | 5.2 | 3.3 | 3.8 | 4.6 |
| 1983 | 6.4 | 10.1 | 11.4 | 10.3 | 9.5 |
| 1984 | 7.3 | 4.6 | 2.9 | 2.6 | 4.3 |
| 1985 | 1.9 | 1.9 | 4.2 | 2.9 | 2.7 |
| 1986 | 3.2 | 3.2 | 1.9 | 5.6 | 3.5 |
| 1987 | 3.1 | 4.1 | 4.3 | 2.6 | 3.5 |
| 1988 | 7.2 | 5.0 | 5.0 | 5.3 | 5.6 |
| 1989 | 3.2 | 6.0 | 4.3 | 4.0 | 4.4 |
| 1990 | 2.3 | 2.2 | 7.8 | 8.2 | 5.1 |
| 1991 | 7.6 | 5.6 | 1.0 | 0.1 | 3.5 |
| 1992 | 2.9 | 5.1 | 4.9 | 4.2 | 4.4 |
| 1993 | 6.6 | 11.9 | 8.8 | 7.1 | 8.6 |
| 1994 | 9.4 | 8.2 | 8.4 | 9.0 | 8.7 |
| 1995 | -0.7 | -5.2 | -2.7 | -1.0 | -2.4 |
| 1996 | 2.7 | 4.0 | 9.3 | 8.7 | 6.1 |
| 1997 | 6.1 | 5.4 | 0.7 | 0.1 | 3.0 |

First Hawaiian Bank has discontinued the update of this index. The Hawaii State Department of Business, Economic Development & Tourism has compiled preliminary 1997 fourth quarter and 1997 annual average and is reviewing the index with the expectation of continuing it.

Source: First Hawaiian Bank and Hawaii State Department of Business, Economic Development & Tourism.

**Table E-5. HONOLULU CONSTRUCTION COST INDEX:
HIGH-RISE BUILDING**

| <i>Year</i> | <i>First Quarter</i> | <i>Second Quarter</i> | <i>Third Quarter</i> | <i>Fourth Quarter</i> | <i>Annual</i> |
|---|--------------------------|---------------------------|--------------------------|---------------------------|---------------|
| Index Numbers January 1992 = 100 | | | | | |
| 1982 | 67.0 | 66.1 | 66.7 | 68.6 | 67.1 |
| 1983 | 71.4 | 71.0 | 71.7 | 72.7 | 71.7 |
| 1984 | 75.0 | 73.9 | 74.1 | 74.6 | 74.4 |
| 1985 | 76.2 | 75.0 | 76.7 | 76.8 | 76.2 |
| 1986 | 78.5 | 77.4 | 78.1 | 79.5 | 78.4 |
| 1987 | 80.3 | 81.0 | 81.3 | 81.3 | 81.0 |
| 1988 | 84.7 | 83.4 | 84.3 | 86.0 | 84.6 |
| 1989 | 88.1 | 89.1 | 89.2 | 91.0 | 89.4 |
| 1990 | 90.8 | 92.0 | 98.5 | 100.2 | 95.4 |
| 1991 | 99.6 | 98.7 | 99.6 | 99.0 | 99.2 |
| 1992 | 99.7 | 98.5 | 99.6 | 100.0 | 99.4 |
| 1993 | 102.7 | 103.3 | 104.0 | 105.8 | 103.9 |
| 1994 | 107.7 | 109.1 | 109.6 | 113.2 | 109.9 |
| 1995 | 113.5 | 113.5 | 114.2 | 115.3 | 114.1 |
| 1996 | 115.8 | 116.0 | 117.4 | 118.3 | 116.9 |
| 1997 | 118.3 | 119.8 | 119.8 | 119.3 | 119.3 |
| Percentage Change from the Same Period in Previous Year | | | | | |
| 1982 | 9.7 | 6.8 | 5.9 | 6.0 | 7.0 |
| 1983 | 6.6 | 7.4 | 7.5 | 6.0 | 6.9 |
| 1984 | 5.0 | 4.1 | 3.3 | 2.6 | 3.8 |
| 1985 | 1.6 | 1.5 | 3.5 | 2.9 | 2.4 |
| 1986 | 3.0 | 3.2 | 1.8 | 3.5 | 2.9 |
| 1987 | 2.3 | 4.7 | 4.1 | 2.3 | 3.3 |
| 1988 | 5.5 | 3.0 | 3.7 | 5.8 | 4.4 |
| 1989 | 4.0 | 6.8 | 5.8 | 5.8 | 5.7 |
| 1990 | 3.1 | 3.3 | 10.4 | 10.1 | 6.7 |
| 1991 | 9.7 | 7.3 | 1.1 | -1.2 | 4.0 |
| 1992 | 0.1 | -0.2 | 0.0 | 1.0 | 0.2 |
| 1993 | 3.0 | 4.9 | 4.4 | 5.8 | 4.5 |
| 1994 | 4.9 | 5.6 | 5.4 | 7.0 | 5.8 |
| 1995 | 5.4 | 4.1 | 4.2 | 1.8 | 3.9 |
| 1996 | 2.0 | 2.1 | 2.7 | 2.6 | 2.4 |
| 1997 | 2.1 | 3.3 | 2.1 | 0.8 | 2.1 |

First Hawaiian Bank has discontinued the update of this index. The Hawaii State Department of Business, Economic Development & Tourism has compiled preliminary 1997 fourth quarter and 1997 annual average and is reviewing the index with the expectation of continuing it.

Source: First Hawaiian Bank and Hawaii State Department of Business, Economic Development & Tourism.

**Table E-6. ESTIMATED VALUE OF PRIVATE BUILDING
CONSTRUCTION AUTHORIZATIONS, BY COUNTY**

| <i>Year</i> | <i>State</i> | <i>City & County of Honolulu</i> | <i>Hawaii County</i> | <i>Kauai County</i> | <i>Maui County</i> |
|-------------------------|--------------|--|--------------------------|-------------------------|------------------------|
| In Thousands of Dollars | | | | | |
| 1982 | 683,124 | 473,009 | 75,175 | 44,237 | 90,703 |
| 1983 | 685,205 | 366,828 | 86,653 | 140,456 | 91,269 |
| 1984 | 581,497 | 378,299 | 90,349 | 53,010 | 59,839 |
| 1985 | 888,436 | 524,823 | 121,345 | 63,889 | 178,933 |
| 1986 | 1,025,195 | 546,375 | 231,404 | 93,199 | 154,120 |
| 1987 | 1,161,897 | 749,472 | 145,157 | 103,481 | 163,786 |
| 1988 | 1,546,474 | 743,056 | 181,228 | 213,678 | 408,508 |
| 1989 | 1,882,397 | 1,047,747 | 338,060 | 178,689 | 317,364 |
| 1990 | 2,101,767 | 998,921 | 429,964 | 238,968 | 433,916 |
| 1991 | 2,151,849 | 1,462,676 | 369,454 | 118,547 | 201,174 |
| 1992 | 1,751,871 | 1,060,700 | 379,158 | 111,098 | 200,916 |
| 1993 | 1,496,483 | 959,043 | 248,239 | 86,010 | 203,179 |
| 1994 | 1,612,899 | 1,073,264 | 181,059 | 164,681 | 193,894 |
| 1995 | 1,531,317 | 980,757 | 267,108 | 78,918 | 204,588 |
| 1996 | 1,117,760 | 698,697 | 171,017 | 101,981 | 146,065 |
| 1997 | 1,179,182 | 772,825 | 155,776 | 97,807 | 152,773 |
| 1996 1 Qtr. | 280,480 | 193,018 | 27,283 | 23,487 | 36,691 |
| 2 Qtr. | 268,220 | 146,189 | 65,975 | 23,486 | 32,570 |
| 3 Qtr. | 352,321 | 228,620 | 36,385 | 39,484 | 47,833 |
| 4 Qtr. | 216,740 | 130,871 | 41,375 | 15,523 | 28,971 |
| 1997 1 Qtr. | 258,945 | 161,998 | 46,425 | 18,804 | 31,718 |
| 2 Qtr. | 426,228 | 304,938 | 37,857 | 40,461 | 42,972 |
| 3 Qtr. | 265,963 | 172,276 | 35,952 | 17,637 | 40,098 |
| 4 Qtr. | 228,047 | 133,613 | 35,543 | 20,905 | 37,985 |
| 1998 1 Qtr. | 260,420 | 162,674 | 52,080 | 19,545 | 26,121 |
| 2 Qtr. | 246,650 | 137,077 | 46,215 | 21,988 | 41,371 |
| 3 Qtr. | 295,955 | 176,140 | 40,589 | 22,169 | 57,058 |

Source: F. W. Dodge; county building departments.

Table E-6. ESTIMATED VALUE OF PRIVATE BUILDING CONSTRUCTION AUTHORIZATIONS, BY COUNTY - Con.

| <i>Year</i> | <i>State</i> | <i>City & County of Honolulu</i> | <i>Hawaii County</i> | <i>Kauai County</i> | <i>Maui County</i> |
|---|--------------|--|--------------------------|-------------------------|------------------------|
| Percentage Change From The Same Period in Previous Year | | | | | |
| 1982 | -14.8 | 4.2 | -44.9 | -34.6 | -36.9 |
| 1983 | 0.3 | -22.4 | 15.3 | 217.5 | 0.6 |
| 1984 | -15.1 | 3.1 | 4.3 | -62.3 | -34.4 |
| 1985 | 52.8 | 38.7 | 34.3 | 20.5 | 199.0 |
| 1986 | 15.4 | 4.1 | 90.7 | 45.9 | -13.9 |
| 1987 | 13.3 | 37.2 | -37.3 | 11.0 | 6.3 |
| 1988 | 33.1 | -0.9 | 24.8 | 106.5 | 149.4 |
| 1989 | 21.7 | 41.0 | 86.5 | -16.4 | -22.3 |
| 1990 | 11.7 | -4.7 | 27.2 | 33.7 | 36.7 |
| 1991 | 2.4 | 46.4 | -14.1 | -50.4 | -53.6 |
| 1992 | -18.6 | -27.5 | 2.6 | -6.3 | -0.1 |
| 1993 | -14.6 | -9.6 | -34.5 | -22.6 | 1.1 |
| 1994 | 7.8 | 11.9 | -27.1 | 91.5 | -4.6 |
| 1995 | -5.1 | -8.6 | 47.5 | -52.1 | 5.5 |
| 1996 | -27.0 | -28.8 | -36.0 | 29.2 | -28.6 |
| 1997 | 5.4 | 10.6 | -8.8 | -4.1 | 4.6 |
| 1996 1 Qtr. | -33.6 | -29.1 | -73.1 | 82.7 | 2.3 |
| 2 Qtr. | -43.6 | -46.4 | -1.2 | 1.0 | -71.1 |
| 3 Qtr. | -7.3 | -19.8 | -16.7 | 103.0 | 49.9 |
| 4 Qtr. | -14.9 | -13.1 | -25.0 | -37.2 | 20.5 |
| 1997 1 Qtr. | -7.7 | -16.1 | 70.2 | -19.9 | -13.6 |
| 2 Qtr. | 58.7 | 108.6 | -42.6 | 69.5 | 31.9 |
| 3 Qtr. | -24.5 | -24.6 | -1.2 | -55.3 | -16.2 |
| 4 Qtr. | 5.2 | 2.1 | -14.1 | 34.7 | 31.1 |
| 1998 1 Qtr. | 5.7 | 0.4 | 12.2 | 3.9 | -17.6 |
| 2 Qtr. | -42.0 | -55.0 | 22.1 | -44.8 | -3.7 |
| 3 Qtr. | 11.3 | 2.2 | 12.9 | 25.7 | 42.3 |

Source: F. W. Dodge; county building departments.

**Table E-7. STATE GOVERNMENT CAPITAL IMPROVEMENT
PROJECT EXPENDITURES**

| <i>Year</i> | <i>Total Expenditures</i> | <i>General Obligation Bond 1/</i> | <i>Revenue Bond 2/</i> | <i>General Fund (Cash)</i> | <i>Special Fund</i> | <i>Federal Funds 3/</i> |
|--|---------------------------|-----------------------------------|------------------------|----------------------------|---------------------|-------------------------|
| In Thousands of Dollars | | | | | | |
| 1990 | 995,163 | 248,379 | 368,502 | 133,529 | 79,998 | 164,755 |
| 1991 | 1,027,189 | 210,022 | 326,414 | 121,108 | 164,915 | 204,730 |
| 1992 | 1,323,450 | 331,720 | 512,432 | 138,867 | 124,605 | 215,826 |
| 1993 | 1,188,315 | 472,515 | 225,431 | 89,917 | 147,351 | 253,101 |
| 1994 | 1,214,487 | 492,048 | 327,980 | 56,662 | 135,440 | 202,357 |
| 1995 | 822,327 | 342,423 | 77,560 | 19,672 | 169,901 | 212,772 |
| 1996 | 720,580 | 286,472 | 66,625 | 6,719 | 165,426 | 195,338 |
| 1997 | 898,496 | 345,440 | 220,496 | 3,181 | 163,130 | 166,249 |
| 1996 1 Qtr. | 137,754 | 38,512 | 27,497 | 1,592 | 30,358 | 39,794 |
| 2 Qtr. | 245,839 | 133,694 | 16,626 | 2,480 | 40,695 | 52,345 |
| 3 Qtr. | 176,195 | 54,642 | 10,163 | 1,915 | 54,990 | 54,485 |
| 4 Qtr. | 160,792 | 59,625 | 12,339 | 732 | 39,382 | 48,714 |
| 1997 1 Qtr. | 212,152 | 115,239 | 14,839 | 1,006 | 35,590 | 45,477 |
| 2 Qtr. | 274,738 | 161,702 | 19,047 | 939 | 40,334 | 52,717 |
| 3 Qtr. | 125,971 | 34,096 | 9,137 | 648 | 49,823 | 32,267 |
| 4 Qtr. | 285,636 | 34,404 | 177,473 | 588 | 37,383 | 35,788 |
| 1998 1 Qtr. | 125,076 | 38,848 | 8,770 | 670 | 47,507 | 29,281 |
| 2 Qtr. | 457,268 | 198,419 | 181,727 | 684 | 49,729 | 26,709 |
| 3 Qtr. | 135,702 | 58,909 | 2,600 | 252 | 54,338 | 19,602 |
| Percent change from corresponding period in previous year | | | | | | |
| 1990 | (NA) | 17.9 | 190.0 | (NA) | (NA) | (NA) |
| 1991 | 3.2 | -15.4 | -11.4 | -9.3 | 106.1 | 24.3 |
| 1992 | 28.8 | 57.9 | 57.0 | 14.7 | -24.4 | 5.4 |
| 1993 | -10.2 | 42.4 | -56.0 | -35.2 | 18.3 | 17.3 |
| 1994 | 2.2 | 4.1 | 45.5 | -37.0 | -8.1 | -20.0 |
| 1995 | -32.3 | -30.4 | -76.4 | -65.3 | 25.4 | 5.1 |
| 1996 | -12.4 | -16.3 | -14.1 | -65.8 | -2.6 | -8.2 |
| 1997 | 24.7 | 20.6 | 231.0 | -52.7 | -1.4 | -14.9 |
| 1996 1 Qtr. | -21.2 | -41.0 | 139.8 | -73.6 | -28.5 | -19.9 |
| 2 Qtr. | -15.9 | -20.1 | -4.5 | -58.9 | 6.6 | -17.4 |
| 3 Qtr. | 5.2 | 11.1 | -38.9 | -55.3 | 17.7 | 7.4 |
| 4 Qtr. | -14.2 | -1.5 | -61.5 | -78.0 | -7.5 | -0.5 |
| 1997 1 Qtr. | 54.0 | 199.2 | -46.0 | -36.8 | 17.2 | 14.3 |
| 2 Qtr. | 11.8 | 20.9 | 14.6 | -62.1 | -0.9 | 0.7 |
| 3 Qtr. | -28.5 | -37.6 | -10.1 | -66.1 | -9.4 | -40.8 |
| 4 Qtr. | 77.6 | -42.3 | 1,338.4 | -19.7 | -5.1 | -26.5 |
| 1998 1 Qtr. | -41.0 | -66.3 | -40.9 | -33.4 | 33.5 | -35.6 |
| 2 Qtr. | 66.4 | 22.7 | 854.1 | -27.2 | 23.3 | -49.3 |
| 3 Qtr. | 7.7 | 72.8 | -71.5 | -61.2 | 9.1 | -39.2 |

This table is not directly comparable to Contracts Awarded data in Table E-1.

NA Not Available.

1/ Consists of general obligation bonds and reimbursable general obligation bonds.

2/ Consists of revenue bonds and special purpose revenue bonds.

3/ Includes special federal aid: interstate, primary, secondary; and federal funds.

Source: Hawaii State Department of Accounting and General Services, Report 300s.

III. TERMS AND DEFINITIONS

Agricultural Wage and Salary Jobs – Full- and part-time jobs for which payment was made by the employer in the survey week containing the 12th of the month. Includes farm jobs and machinery operators. Closely related management and services jobs are included for sugar and pineapple but are excluded for other types of agriculture.

Average Daily Visitor Census – Average number of visitors present daily in the state. Figures are computed monthly by the Hawaii Visitors and Convention Bureau, based on arrival and departure dates from in-flight questionnaires.

Civilian Employed – Persons 16 years of age or older who, during the survey week containing the 12th of the month, were either at work for pay or profit, or worked without pay for 15 hours or more on a family farm or business, or were with a job but not at work. Both permanent and temporary employees and those who are working either full- or part-time are included.

Civilian Labor Force – Total of employed and unemployed persons, excluding those in the armed forces and 16 years of age or under. Surveys are done by U.S. Census Bureau for the U.S. Bureau of Labor Statistics.

Civilian Unemployed – Persons 16 years of age or older who (1) did not work at all during the survey week but were actively seeking work and were available for work; or (2) did not work at all, were available for work, and were waiting to be called back from layoff or were waiting to report to a new wage or salary job within 30 days.

Consumer Price Index: U.S. or Honolulu – Measure of the average change in prices over time for a fixed market basket of goods and services. It is compiled by the U.S. Bureau of Labor Statistics. The index measures changes from a reference date, i.e., 1982-84, which is designated as 100.0. For example, a CPI-U (where U refers to All Urban Consumers), All Items of 171.9 as the annual average for 1997 indicates the average prices of that group's basket was 71.9 percent higher than the weighted average of those same goods and services in 1982-84. Data are published monthly for the U.S. and semi-annually for Honolulu. As of January 1998, BLS changed the reference basket based on 1982-84 consumer expenditures to a 1993-95 basket. The base continues to be 1982-84 = 100.0.

The BLS Internet site has more information about the CPI at <http://stats.bls.gov/cpihome.htm>.

Contract Construction Jobs – Jobs held by any person engaged in construction, repairing, erecting, or improving buildings or structures of any type or description, and any installations therein. Such construction includes not only residential and non-residential building projects, both private and public, but also highway and road construction, street and sidewalk construction, repair, excavations, bridges, docks, and other heavy construction projects.

Contracting – Includes building contractors, land developers, architects, engineers, and pest control operators.

Contracting Tax Base – The total receipts of businesses engaged in contracting to erect, construct, repair, or improve buildings or structures of any kind or description, or to make any installation therein. Attributed to every business engaging in the practice of architecture, engineering, land surveying, landscape architecture, and the practice of pest control or fumigation.

Dividends, Interest, and Rent – Personal income received by individuals and on behalf of individuals by quasi-individuals, including non-profit institutions and private trust funds administered by fiduciaries. Dividends are payments in cash or other assets by corporations in the U.S. or abroad to Hawaii residents. Interest consists of monetary interest, on private and government accounts and bonds, and imputed interest, on pensions and insurance as earned rather than as received. Rent is monetary income as received on real property, royalties, and imputed as value of owner-occupied nonfarm dwellings.

Earnings – Is a subtotal of personal income components: wages and salaries, other labor income, and proprietors' income. It is often used in regional analysis as a proxy for the income generated from participation in current production.

Eastbound Visitors – Visitors who stayed in Hawaii for at least one night but less than one year (if students, less than six months), from Asia, Australia, and the Pacific. Since the Hawaii Visitors and Convention Bureau does not have a visitor profile encompassing the entire eastbound travel market, this figure is obtained by subtracting the westbound overnight or longer visitors from the total visitor arrivals.

General Excise (Gross Income) Tax – Tax charged to businesses on gross sales or gross income. The tax rate is 0.5 percent on wholesaling and intermediary services, blind vendors, producing, manufacturing, sugar processing and pineapple canning; all other activities (retailing, business and professional services, contracting, theater, amusement, radio, interest, commissions, rentals) are taxed at 4.0 percent, except insurance commissions received by general agents, subagents and solicitors, who are taxed at 0.15 percent.

General Excise and Use Tax Base – The value of all goods and services sold, including the value of tangible personal property imported into Hawaii for own use or consumption. One of the most comprehensive measures of business activity in the state.

General Fund Tax Revenues – The general government fund used to account for all financial resources except those required to be accounted for in another fund, such as the highway fund, capital improvement fund, or airport fund.

Honolulu Construction Cost Indexes: High-Rise or Single Family – These indexes measure changes in contractors' costs for building materials and labor. Through Third Quarter 1997 they were compiled by First Hawaiian Bank. Hawaii State Department of Business, Economic Development & Tourism has compiled preliminary Fourth Quarter and Annual Average 1997 with the expectation of continuing compiling the indexes.

Hotel Jobs – Jobs in hotels, rooming houses, camps, and other lodging places.

Hotel Occupancy – The percentage of occupied rooms in a hotel. Hotel occupancy rates depend not only on the number of visitors and their length of stay, but also on the hotel room inventory, e.g., a large increase in new hotel units results in a drop in occupancy rates, until such time as visitor traffic builds up enough to fill them. Rates are obtained from a sample survey conducted on a monthly basis.

Hotel Rental Tax Base – The value of economic activity subject to hotel taxes. Includes the furnishing of temporary accommodations in a hotel, or other place in which lodgings are regularly furnished to transients for compensation.

Initial Agent Claims – Notices of unemployment filed against another state by its workers who have moved to Hawaii.

Initial Liable Claims – Notices of unemployment filed against Hawaii by Hawaii workers who have moved to another state.

Insurance Commissions – Includes commissions received by a licensed solicitor, general agent, or subagent that is subject to the Hawaii insurance law.

Manufacturing – Activities by any person or establishment that buys materials, performs work on such materials, and changes such materials into a finished or semi-finished product. Includes compounding, canning, preserving, packing, printing, publishing, mailing, processing, refining, or preparing for sale, profit, or commercial use, either directly or through the activity of others, in whole or in part, any article, substance, or commodity.

Manufacturing Jobs – Jobs in manufacturing industries, such as textiles, apparel, printing, publishing, food processing, and durable goods.

Manufacturing Tax Base – Tax base on all manufacturing activities, excluding sugar processing and pineapple canning. Direct wholesale and retail sales by manufacturers are not included in manufacturing tax sales.

Net Earnings – Is calculated as Personal Income component Earnings less Personal Contributions for Social Insurance. It can be used as a proxy for income before taxes.

Net Income Tax – Tax revenue derived from either the individual or corporate income tax. Net individual income tax revenue is calculated as declaration of estimated taxes plus payments with returns plus withholding tax on wages less refunds. Net corporate income tax revenue is calculated as declarations of estimated taxes plus payments with returns less refunds.

Non-Agricultural Wage and Salary Jobs – Derived monthly from a sample survey of employers reporting the number of persons who received pay for any part of the pay period containing the 12th of the month. Includes all full- and part-time non-agricultural workers, permanent and temporary workers, and workers on paid sick leave and paid vacation.

Other Goods and Services – Honolulu Consumer Price Index component detail was shown for the first time in

the *QSER* March 1998 issue. Prior to the CPI 1998 Revision, it measured the change in average prices of tobacco products, personal care goods and services, and personal and educational expenditures. Beginning with January 1998 data, BLS has restructured this category which continues to include tobacco, personal care, and miscellaneous goods and services but has moved components, for example, schoolbooks and tuition, to the new “Education and Communication” and recreational reading to “Recreation”. The BLS’ *Monthly Labor Review* (December 1996) and BLS’ Internet site have more information about the CPI at <http://stats.bls.gov/cpihome.htm>.

Other Labor Income – Personal income component that consists of employers’ contributions to privately-administered benefit plans, fees paid to corporate directors, and miscellaneous fees.

Other Rentals – Rental income from real or personal property except the furnishing of transient accommodations in a hotel or other place in which lodgings are regularly furnished to transients for compensation.

Personal Contributions for Social Insurance – Personal income earned, if not immediately received, by employees, self-employed, and other individuals who participate in social security, hospital and other insurance, Medicare, various government retirement, and veterans life insurance programs. Contributions are excluded from Personal Income but are included when received as “Transfer Payments”.

Personal Income – Income received by or on behalf of residents in an economy from all sources—participation in production, from government and business transfer payments and from government interest (treated like a transfer payment by the Bureau of Economic Analysis). The major component is wages and salaries.

Producing – Includes fishing, raising, or producing of agricultural, animal, or poultry products in their natural state (or butchered, dressed, or natural resource products). Also includes the sale of geothermal resources or electrical energy produced by geothermal resources.

Proprietors’ Income – Earnings of unincorporated businesses, (proprietorships, partnerships, and producers’ cooperatives), from their current business operations. It includes both farm and non-farm businesses, but excludes capital gains and losses.

Retailing – Activities engaged in for sales of tangible personal property to the customer for use or consumption and not for resale.

Retailing Tax Base – Is the general excise tax base on retail sales, which include sales for consumption or use by the purchaser, and not for resale, but excludes sales by blind vendors and the use (as not-for-final sales) tax base.

Services – Activities engaged in for other persons for a consideration, which involve the rendering of a service as distinguished from the sale of tangible property or the production and sale of tangible property. Includes all professional services.

Services Tax Base – Value of gross sales or receipts on which the general excise tax is assessed. Includes gross sales or receipts of establishments primarily engaged in providing a wide variety of services for individuals, business and government establishments, and other organizations; establishments providing personal, business, repair, and amusement services; health, legal, engineering, and other professional services; educational institutions; membership organizations and other miscellaneous services. Hotels and other lodging places are excluded.

Tax Base – The monetary value of goods or services on which a tax is assessed.

Total Visitor Arrivals – All persons who stayed in Hawaii for at least one night but less than one year (if students, less than six months). Includes both west-bound arrivals (traveling from North America) and eastbound arrivals (traveling from Asia, Australia, and Oceania).

Transfer Payments – As a component of Personal Income, these are payments for which no current services are performed. They are payments by government and business to individual or nonprofit institutions serving individuals. Examples are social security, government employees’ retirement, and the value of Food Stamps.

Transient Accommodations Tax – Tax levied on the furnishing of a room, apartment, suite or the like which is customarily occupied by a person or group for less than 180 consecutive days for each letting by a hotel, apartment, motel, horizontal property regime or cooperative apartment, rooming house, or other place in which lodgings are generally furnished to transients for consideration. The tax is imposed at the rate of 6 percent. The registration fee for transient accommo-

dations operators is a one-time fee of \$5 for each registration consisting of 1 to 5 units and \$15 for 6 or more units.

Unallocated General Excise & Use Tax Revenues –

General excise and use tax revenues that could not be allocated to any of the activities of the general excise and use tax. It also includes collections from penalty and interest, assessments and corrections, delinquent collections, refunds, protested payments, settlements, etc.

Unemployment Rate – Ratio of unemployed persons to the civilian labor force expressed as a percentage.

Use Tax – Excise tax levied on tangible personal property that is imported or purchased from an unlicensed seller for use in the state. The tax is based upon the purchase price or value of the tangible personal property purchased or imported, whichever is applicable. Rates: 0.5 percent, if for resale at retail; 4.0 percent, if for use or consumption.

Wages and Salaries – The major component of Personal Income includes monetary and in-kind compensation for employment services rendered. Examples are commissions, tips, and meals furnished employees.

Westbound Visitors – Visitors who stayed in Hawaii for at least one night but less than one year (if students, less than six months), who traveled from North America (Mainland U.S.).

Wholesaling – Sales of tangible personal property to licensed persons for resale or incorporation into a product or project, and sales to certain leasing companies.