

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

# QUARTERLY STATISTICAL & ECONOMIC REPORT



September 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 August 18, 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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# TABLE OF CONTENTS

## Part I. Economic Trends and Outlook

State of the Economy .....	1
Figure 1: Annual Growth in Personal Income .....	2
Outlook of the Economy.....	3
Actual and Forecast Key Economic Indicators for Hawaii: 1997-2002 .....	4
County Economic Conditions .....	5
Table 1. 1998 Selected Economic Activities: State .....	6
Table 2. 1998 Selected Economic Activities: City and County of Honolulu.....	7
Table 3. 1998 Selected Economic Activities: Hawaii County.....	8
Table 4. 1998 Selected Economic Activities: Maui County.....	9
Table 5. 1998 Selected Economic Activities: Kauai County .....	10

## Part II. Economic Overview and Data

A. Labor Force and Jobs.....	11
A-1. Civilian Labor Force .....	12
A-2. Civilian Employment .....	13
A-3. Civilian Unemployment .....	14
A-4. Civilian Unemployment Rate .....	15
A-5. Non-Agricultural Wage and Salary Jobs .....	16
A-6. Construction Jobs.....	17
A-7. Manufacturing Jobs.....	18
A-8. Transportation Jobs.....	19
A-9. Communication Jobs .....	20
A-10. Utilities Jobs .....	21
A-11. Retail Trade Jobs .....	22
A-12. Wholesale Trade Jobs.....	23
A-13. Finance, Insurance and Real Estate Jobs .....	24
A-14. Services and Miscellaneous Jobs.....	25
A-15. Hotel Jobs .....	26
A-16. Federal Government Jobs.....	27
A-17. State Government Jobs .....	28
A-18. Local Government Jobs .....	29
A-19. Agriculture Wage and Salary Jobs .....	30
 B. Income and Prices .....	 31
B-1. Personal Income for Hawaii by Major Sources .....	32
B-2. Personal Income.....	33
B-3. Total Wages and Salaries.....	34
B-4. Other Labor Income.....	35
B-5. Proprietors' Income .....	36
B-6. Dividends, Interest, and Rent.....	37
B-7. Transfer Payments .....	38
B-8. Personal Contributions to Social Insurance.....	39
B-9. Honolulu and U.S. Consumer Price Index, All Urban Consumers (CPI-U) ...	40

C. Tax Base and Revenues .....	41
Figure 2: Annual Growth in General Fund Revenue .....	42
C-1. General Fund Tax Revenues and Major Components .....	43
C-2. State General Fund Tax Revenues .....	44
C-3. General Excise & Use Tax Revenues .....	45
C-4. Net Individual Income Tax Revenues .....	46
C-5. Net Corporate Income Tax Revenues .....	47
C-6. Transient Accommodations Tax Revenues .....	48
C-7. Unallocated General Excise & Use Tax Revenues .....	49
C-8. General Excise & Use Tax Base .....	50
C-9. Retailing Tax Base .....	51
C-10. Services Tax Base .....	52
C-11. Contracting Tax Base .....	53
C-12. Hotel Rental Tax Base .....	54
C-13. Producing Tax Base .....	55
C-14. 4% Use Tax Base .....	56
D. Tourism .....	57
Figure 3: Visitor Arrivals .....	57
D-1. Visitor Arrivals and Average Daily Visitor Census .....	58
D-2. Total Visitor Arrivals .....	59
D-3. Westbound Visitor Arrivals .....	60
D-4. Eastbound Visitor Arrivals .....	61
D-5. Average Daily Visitor Census .....	62
D-6. Hotel Occupancy Rate .....	64
E. Construction .....	65
E-1. Estimated Value of Completed Construction, New Private Building Authorizations, and Government Contracts Awarded .....	66
E-2. Single Family Units Authorized .....	68
E-3. Multi-Family Units Authorized .....	69
E-4. Honolulu Construction Cost Index: Single Family Residence .....	70
E-5. Honolulu Construction Cost Index: High-Rise Building .....	71
E-6. Estimated Value of Private Building Construction Authorizations, By County	72
E-7. State Government Capital Improvement Project Expenditures .....	74
<b>Part III. Terms and Definitions .....</b>	<b>75</b>

## STATE OF THE ECONOMY

Hawaii's economy is sending mixed signals. On the one hand, indicators such as unemployment, personal income, and tax revenues point to improvements in economic performance. On the other hand, wage and salary jobs, visitor arrivals, and private construction activity point toward continued weakness. The economy appears to be in a state of transition.

In the labor market, both the number of unemployed and the unemployment rate continue to fall. The number of unemployed fell 12.8 percent from the second quarter of 1997 through the second quarter of 1998 (Table 1). Over the same period, the unemployment rate fell by almost one full percentage point to 5.9 percent. Moreover, civilian employment is still rising, growing by 1.3 percent.

However, the number of nonagricultural wage and salary jobs continues to fall slowly, down 0.8 percent in the second quarter compared to the year-earlier quarter. Jobs in most industries declined except the broad categories of services and state and local government. Agricultural wage and salary jobs increased by 8.1 percent over the period.

Although wage and salary jobs fell in the second quarter, the latest available data indicate that personal income rose in most industries during the first quarter (Table B-1). Overall, personal income grew 2.6 percent from the first quarter of 1997 through the first quarter of 1998. Moreover, the Honolulu consumer price index *declined* from the first half of 1997 through the first half of 1998. As a result, real personal income grew at a higher rate than nominal personal income (Table B-9).

Tax revenue has also exhibited recent growth. General fund tax revenues grew by

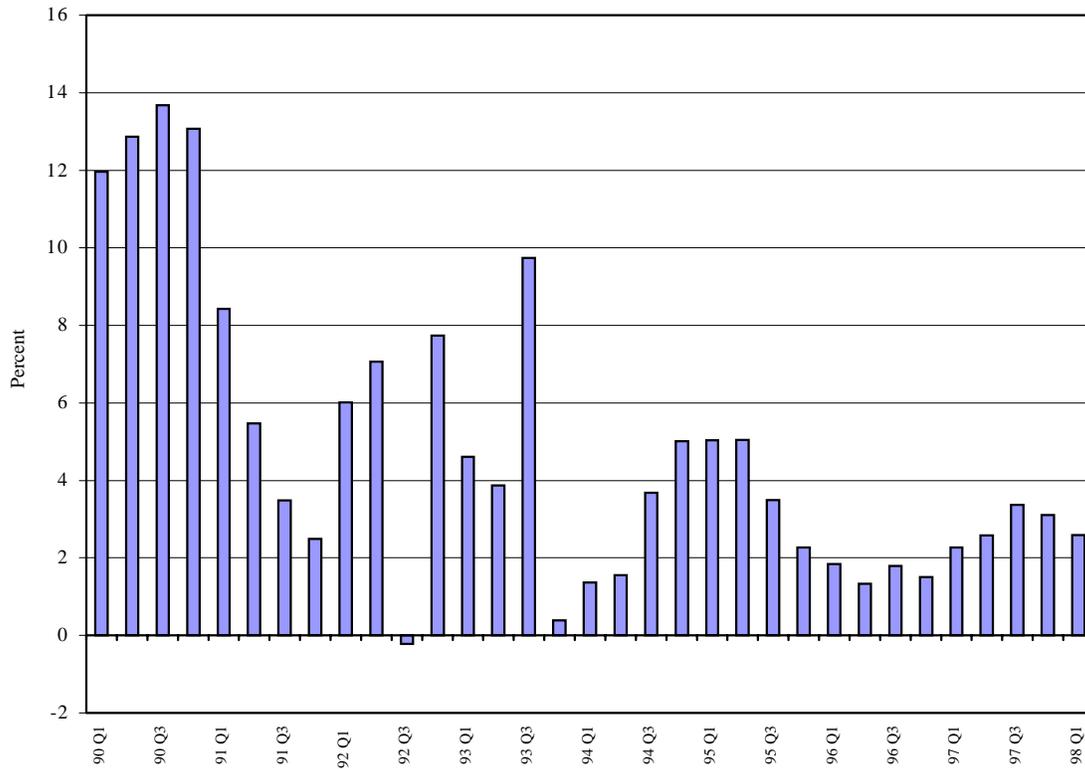
9.9 percent in the second quarter of 1998 relative to the year-earlier quarter (Table C-1). However most of this growth came from individual income taxes which were strongly affected by a technical change in withholding rates. Even so, components of individual income tax revenues unaffected by the technical change also rose. On the other hand, general excise and use tax revenue fell by 4.8 percent in the second quarter.

The Asian economic crises, particularly Japan's weak economy, have clearly affected the tourist industry. Eastbound arrivals fell by over 10 percent from the second quarter of 1997 through the second quarter of 1998, and the eastbound visitor census declined by about the same amount (Table D-1). Fortunately, westbound arrivals have been relatively strong—growing by 6.5 percent. This westbound strength has limited the impact from Asia so that total visitor arrivals have declined by only 0.1 percent.

Private construction indicators appeared to decline precipitously in the second quarter of 1998 relative to the second quarter of 1997. However, much of the apparent decline was due to an unusually high level of activity in the base period—the second quarter of 1997. Both the value and number of multi-family building authorizations declined sharply (Tables E-1 and E-3), but two projects on Oahu inflated the second quarter 1997 numbers. Similarly, a large drop in commercial and industrial authorizations reflects a relatively high level of hotel reconstruction authorization on Kauai in 1997.

In contrast, State capital improvement expenditures grew by 66.4 percent in the second quarter of 1998 over the same period in 1997, largely due to financing for the state housing loan program.

**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 Asian economic troubles have begun to affect Hawaii's economy, especially in the visitor industry. While forecasts for the U.S. economy remain high, recent turmoil in the stock markets raises the level of uncertainty about the immediate future. As a result, DBEDT expects modest economic growth for the remainder of the year and for 1999.

The August 10, 1998 issue of the Blue Chip Economic Indicators revealed a reduction in the consensus forecast for economic growth in Asia relative to July. Japan's economy is expected to decline by 1.1 percent in 1998, South Korea's real GDP is expected to fall by 4.1 percent, and Hong Kong's growth in 1998 is anticipated to be -1.5 percent. All of these expected growth rates are lower than the Blue Chip forecasts in July. However, in each of these economies, positive growth is expected in 1999.

The Blue Chip consensus forecast for the value of the Japanese yen is 141.7 yen per dollar in 1998 and 132.2 in 1999. The yen has recently risen to 136 and the cur-

rency futures markets are pricing yen for December 1998 delivery at 134 per dollar and yen for June 1999 delivery at 131 per dollar. A stronger yen may bolster visitor arrivals and expenditure in Hawaii.

In contrast to lower expectations for Asia, the August Blue Chip consensus forecast for U.S. real growth was raised for 1998. The consensus forecast is for the U.S. economy to grow by 3.4 percent in 1998 and by 2.3 percent in 1999. Inflation is expected to remain low at 1.7 percent in 1998 but accelerate to 2.4 percent in 1999.

In light of these developments, DBEDT has revised its forecast as presented in the following table. DBEDT expects visitor arrivals to decline slightly in 1998 due to lower eastbound traffic, but arrival growth should rebound in 1999 and beyond. Inflation should remain below 1 percent through 1999. Jobs are likely to post a loss for 1998 and to grow modestly thereafter. Inflation-adjusted personal income will grow by about 2 percent in 1998 and 1999, with real gross state product growing at a slightly slower pace.

**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	1,191.3	1,198.5	1,205.7	1,212.9	1,220.2
Visitor arrivals (in thousands)	6,877.5	6,861.4	6,979.2	7,069.8	7,156.2	7,239.8
Honolulu CPI-U (1982-84=100)	171.9	172.8	174.3	176.4	179.1	182.1
Personal income (in million dollars)	30,924.8	31,728.8	32,553.7	33,432.7	34,435.7	35,468.7
Personal income (in \$1987 million)	20,670.5	21,102.4	21,457.9	21,776.0	22,097.8	22,380.3
Total wage & salary jobs (in thousands)	539.1	536.3	539.0	543.1	546.3	549.6
Gross state product (in million dollars)	34,238.6	35,022.9	35,806.4	36,637.2	37,554.0	38,497.2
Real gross state product (in \$1987 million)	23,859.7	24,284.8	24,643.1	24,940.2	25,204.0	25,444.3
Gross state product deflator (1987=100)	143.5	144.2	145.3	146.9	149.0	151.3
<b>Annual Percentage Change</b>						
Total population (in thousands)	0.3	0.4	0.6	0.6	0.6	0.6
Visitor arrivals (in thousands)	0.7	-0.2	1.7	1.3	1.2	1.2
Honolulu CPI-U (1982-84=100)	0.7	0.5	0.9	1.2	1.5	1.7
Personal income (in million dollars)	2.8	2.6	2.6	2.7	3.0	3.0
Personal income (in \$1987 million)	2.0	2.1	1.7	1.5	1.5	1.3
Total wage & salary jobs (in thousands)	0.2	-0.5	0.5	0.8	0.8	1.0
Gross state product (in million dollars)	2.2	2.3	2.2	2.3	2.5	2.5
Real gross state product (in \$1987 million)	1.5	1.8	1.5	1.2	1.1	1.0
Gross state product deflator (1987=100)	0.6	0.5	0.8	1.1	1.4	1.5

Source: Hawaii Department of Business, Economic Development & Tourism, September 1998.

## COUNTY ECONOMIC CONDITIONS

In terms of economic growth, Hawaii County again turned in the strongest performance in the state in the second quarter. While all counties saw declines in unemployment, Hawaii County was the only county to see an increase in wage and salary jobs. Moreover, *only* the Big Island saw an *increase* in eastbound visitor arrivals.

Both the number of unemployed and the unemployment rate declined in all four counties in the second quarter of 1998 relative to the second quarter of 1997 (Tables 2-5). Indeed, the number of unemployed declined at double-digit rates in all counties other than Honolulu—where the number of unemployed fell by 9.4 percent. In Hawaii and Kauai Counties the unemployment rate fell by two full percentage points. The second-quarter unemployment rates in both counties have fallen below 10 percent for the first time since 1992.

The decline in unemployment is usually good news unless the reason for decline is that job seekers gave up their employment search—that is, they dropped out of the labor force. For the state as a whole, the labor force was rising while unemployment fell between the second quarter of 1997 and the second quarter of 1998, so a “discouraged worker” effect does not appear significant. However, in Maui and Kauai Counties, the civilian labor force declined in the first half of the year (Tables 4 and 5). This suggests that at least a part of the lower unemployment in those counties may be due to discouraged workers leaving the labor force in

those counties by abandoning their searches for work there.

Non-agricultural wage and salary jobs fell in all counties other than Hawaii County. Hawaii County enjoyed an increase in the number of non-agricultural wage and salary jobs of 4.6 percent from the second quarter of 1997 to the second quarter of 1998. The largest percentage increases came in construction (10 percent, Table 3), services (9.4 percent), and transportation, communications, and utilities (5.7 percent).

Agricultural wage and salary jobs increased dramatically on all islands except Maui. Honolulu and Kauai counties experienced an increase in agricultural jobs of 10.5 percent and 20 percent, respectively, in the second quarter of 1998 relative to the year-earlier quarter. Hawaii County’s agricultural jobs increased by 6.8 percent. Maui County saw no increase in these jobs.

Visitor arrivals grew by 12.4 percent in Hawaii County in the year ending in June 1998. Westbound arrivals grew by 7.9 percent, and eastbound arrivals expanded by a remarkable 30.8 percent. In all other counties, eastbound arrivals fell by large percentages: Honolulu (-10.9 percent), Maui (-19.4 percent), and Kauai (-50.7 percent). At the same time, westbound visitor arrivals grew relatively strongly in each of the counties over the period. Hotel occupancy rates fell by more than 4 percentage points in Honolulu County, but occupancy rates rose in each of the other counties.

**Table 1. 1998 SELECTED ECONOMIC ACTIVITIES: STATE OF HAWAII**

SERIES	UNIT	2nd QUARTER 1998		1998 YEAR TO DATE	
		NUMBER	% CHANGE YEAR AGO	NUMBER	% CHANGE YEAR AGO
Civilian labor force 1/	Persons	593,350	0.3	592,900	0.2
Civilian employment	Persons	558,200	1.3	558,800	1.2
Civilian unemployment	Persons	35,150	-12.8	34,100	-13.0
Unemployment rate 2/	%	5.9	-0.9	5.8	-0.9
Total non-agric. wage & salary jobs 1/	Jobs	528,950	-0.8	529,550	-0.7
Contract construction	Jobs	21,250	-3.6	21,450	-3.4
Manufacturing	Jobs	16,150	-3.3	16,250	-2.4
Transport., comm., utilities	Jobs	40,500	-2.3	40,750	-1.7
Trade	Jobs	131,800	-1.7	132,600	-1.3
Retail	Jobs	110,950	-1.9	111,700	-1.6
Finance, insur., & real estate	Jobs	35,100	-2.8	35,200	-2.8
Services & miscellaneous	Jobs	169,450	0.5	169,250	0.4
Hotels	Jobs	37,650	-1.4	38,000	-1.7
Government	Jobs	114,700	0.2	113,950	0.3
State	Jobs	67,750	0.6	67,100	0.8
Federal	Jobs	30,300	-1.3	30,300	-1.1
Agriculture wage & salary jobs 1/	Jobs	7,350	8.1	7,300	7.4
State general fund revenues	\$1,000	743,002	9.9	1,457,468	6.8
Transient accommodations tax revenues	\$1,000	31,949	-5.5	65,997	0.3
General excise & use tax base	\$1,000	10,691,817	-8.8	22,555,999	-4.9
Retailing tax base	\$1,000	3,552,300	-9.3	7,492,964	-5.7
Services tax base	\$1,000	1,360,631	-2.3	2,717,928	-0.7
Contracting tax base	\$1,000	656,705	-12.4	1,378,672	-3.2
Hotel rental tax base	\$1,000	429,408	-19.8	973,271	-9.0
Producing tax base	\$1,000	100,819	-9.3	244,136	-0.7
Visitor arrivals 3/	Persons	1,648,060	-0.1	3,347,940	-0.9
Westbound visitors	Persons	1,060,820	6.5	2,113,850	3.9
Eastbound visitors	Persons	587,240	-10.1	1,234,090	-8.2
Hotel occupancy rates 2/	%	69.5	-0.8	73.7	-1.7

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

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

SERIES	UNIT	2nd QUARTER 1998		1998 YEAR TO DATE	
		NUMBER	% CHANGE YEAR AGO	NUMBER	% CHANGE YEAR AGO
Civilian labor force 1/	Persons	425,850	0.0	425,900	0.0
Civilian employment	Persons	404,600	0.5	405,250	0.6
Civilian unemployment	Persons	21,250	-9.4	20,650	-10.6
Unemployment rate 2/	%	5.0	-0.5	4.8	-0.6
Total non-agric. wage & salary jobs 1/	Jobs	400,300	-1.2	400,800	-1.0
Contract construction	Jobs	16,500	-3.8	16,600	-3.5
Manufacturing	Jobs	12,350	-3.5	12,450	-2.7
Transport., comm., utilities	Jobs	32,600	-2.5	32,850	-1.9
Trade	Jobs	97,350	-2.1	98,050	-1.7
Retail	Jobs	80,150	-2.4	80,750	-2.1
Finance, insur., & real estate	Jobs	28,050	-3.1	28,150	-3.3
Services & miscellaneous	Jobs	121,050	0.0	120,950	0.1
Hotels	Jobs	16,550	-4.9	16,800	-5.4
Government	Jobs	92,350	-0.1	91,750	0.1
State	Jobs	52,400	0.4	51,850	0.5
Federal	Jobs	28,650	-0.9	28,650	-0.5
Agriculture wage & salary jobs 1/	Jobs	2,100	10.5	2,050	10.8
Transient accommodations tax revenues	\$1,000	25,495	0.4	53,342	8.1
General excise & use tax base	\$1,000	9,590,955	-8.2	20,315,849	-3.9
Retailing tax base	\$1,000	3,248,202	-7.9	6,878,918	-3.9
Services tax base	\$1,000	1,142,272	-3.8	2,298,666	-1.5
Contracting tax base	\$1,000	558,829	-13.1	1,183,198	-2.1
Hotel rental tax base	\$1,000	370,672	-13.1	856,236	-0.1
Producing tax base	\$1,000	75,587	-12.1	177,938	-5.5
Visitor arrivals 3/	Persons	1,156,160	-4.2	2,361,570	-3.7
Westbound visitors	Persons	578,530	3.5	1,141,250	-0.2
Eastbound visitors	Persons	577,630	-10.9	1,220,320	-6.8
Hotel occupancy rates 2/	%	70.3	-4.6	75.1	-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 Department of Labor & Industrial Relations; Hawaii Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii Department of Business, Economic Development & Tourism.

**Table 3. 1998 SELECTED ECONOMIC ACTIVITIES: HAWAII COUNTY**

SERIES	UNIT	2nd QUARTER 1998		1998 YEAR TO DATE	
		NUMBER	% CHANGE YEAR AGO	NUMBER	% CHANGE YEAR AGO
Civilian labor force 1/	Persons	70,550	3.6	70,150	2.9
Civilian employment	Persons	63,850	5.9	63,950	4.9
Civilian unemployment	Persons	6,700	-14.1	6,250	-13.2
Unemployment rate 2/	%	9.5	-2.0	8.9	-1.7
Total non-agric. wage & salary jobs 1/	Jobs	51,050	4.6	50,750	3.2
Contract construction	Jobs	2,200	10.0	2,200	4.8
Manufacturing	Jobs	1,600	0.0	1,600	-3.0
Transport., comm., utilities	Jobs	2,800	5.7	2,800	7.7
Trade	Jobs	12,850	1.2	12,850	0.4
Retail	Jobs	11,150	1.4	11,150	0.0
Finance, insur., & real estate	Jobs	2,550	-1.9	2,550	-1.9
Services & miscellaneous	Jobs	18,550	9.4	18,200	5.8
Hotels	Jobs	6,850	3.8	6,950	5.3
Government	Jobs	10,500	1.9	10,400	1.0
State	Jobs	7,400	2.1	7,350	1.4
Federal	Jobs	900	0.0	900	0.0
Agriculture wage & salary jobs 1/	Jobs	2,350	6.8	2,500	11.1
Transient accommodations tax revenues	\$1,000	1,917	-6.2	4,147	5.7
General excise & use tax base	\$1,000	428,453	-16.5	905,742	-12.4
Retailing tax base	\$1,000	112,211	-23.5	228,771	-23.7
Services tax base	\$1,000	98,051	9.8	186,515	5.2
Contracting tax base	\$1,000	36,585	-16.7	74,443	-17.3
Hotel rental tax base	\$1,000	7,070	-66.7	17,401	-51.4
Producing tax base	\$1,000	17,122	0.5	49,932	18.3
Visitor arrivals 3/	Persons	305,860	12.4	646,220	7.9
Westbound visitors	Persons	235,900	7.9	494,350	5.4
Eastbound visitors	Persons	69,960	30.8	151,870	17.0
Hotel occupancy rates 2/	%	64.8	2.5	71.6	3.7

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

**Table 4. 1998 SELECTED ECONOMIC ACTIVITIES: MAUI COUNTY**

SERIES	UNIT	2nd QUARTER 1998		1998 YEAR TO DATE	
		NUMBER	% CHANGE YEAR AGO	NUMBER	% CHANGE YEAR AGO
Civilian labor force 1/	Persons	68,800	-0.4	68,700	-0.6
Civilian employment	Persons	64,250	1.4	64,200	1.0
Civilian unemployment	Persons	4,500	-21.1	4,500	-18.9
Unemployment rate 2/	%	6.5	-1.7	6.6	-1.5
Total non-agric. wage & salary jobs 1/	Jobs	54,950	-0.5	55,050	-0.5
Contract construction	Jobs	1,700	-10.5	1,800	-5.3
Manufacturing	Jobs	1,800	-2.7	1,800	0.0
Transport., comm., utilities	Jobs	3,500	-6.7	3,500	-6.7
Trade	Jobs	15,000	-1.3	15,050	-0.7
Retail	Jobs	13,650	-1.1	13,700	-0.7
Finance, insur., & real estate	Jobs	3,000	-1.6	3,050	-1.6
Services & miscellaneous	Jobs	22,300	1.8	22,300	0.9
Hotels	Jobs	11,050	0.9	11,050	0.0
Government	Jobs	7,650	1.3	7,550	0.7
State	Jobs	5,250	1.9	5,200	2.0
Federal	Jobs	500	0.0	500	0.0
Agriculture wage & salary jobs 1/	Jobs	2,000	0.0	1,900	-2.6
Transient accommodations tax revenues	\$1,000	3,767	-26.8	6,960	-32.7
General excise & use tax base	\$1,000	487,601	-13.6	964,563	-14.8
Retailing tax base	\$1,000	138,947	-22.4	275,421	-23.2
Services tax base	\$1,000	84,767	-3.2	164,811	-3.8
Contracting tax base	\$1,000	44,987	-1.1	87,917	2.1
Hotel rental tax base	\$1,000	39,968	-43.4	78,491	-45.8
Producing tax base	\$1,000	6,565	0.8	13,401	5.3
Visitor arrivals 3/	Persons	583,410	1.1	1,172,020	-0.7
Westbound visitors	Persons	493,890	6.0	969,160	2.3
Eastbound visitors	Persons	89,520	-19.4	202,860	-13.1
Hotel occupancy rates 2/	%	71.4	4.6	74.4	1.0

1/ Labor force and jobs are averages based on monthly rounded data. Labor force data were rebenchmarked 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 Department of Labor & Industrial Relations; Hawaii Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii Department of Business, Economic Development & Tourism.

**Table 5. 1998 SELECTED ECONOMIC ACTIVITIES: KAUAI COUNTY**

SERIES	UNIT	2nd QUARTER 1998		1998 YEAR TO DATE	
		NUMBER	% CHANGE YEAR AGO	NUMBER	% CHANGE YEAR AGO
Civilian labor force 1/	Persons	28,150	-0.9	28,100	-1.6
Civilian employment	Persons	25,450	1.6	25,400	1.2
Civilian unemployment	Persons	2,700	-18.2	2,700	-21.7
Unemployment rate 2/	%	9.6	-2.0	9.6	-2.5
Total non-agric. wage & salary jobs 1/	Jobs	23,150	-0.9	23,200	0.0
Contract construction	Jobs	900	0.0	950	0.0
Manufacturing	Jobs	400	-11.1	400	-11.1
Transport., comm., utilities	Jobs	1,550	0.0	1,550	0.0
Trade	Jobs	6,550	0.0	6,550	0.8
Retail	Jobs	6,100	0.8	6,100	0.8
Finance, insur., & real estate	Jobs	1,400	-6.7	1,400	-6.7
Services & miscellaneous	Jobs	8,250	-1.8	8,250	-0.6
Hotels	Jobs	3,350	-1.5	3,350	-1.5
Government	Jobs	4,000	0.0	4,000	0.0
State	Jobs	2,600	0.0	2,600	0.0
Federal	Jobs	400	0.0	400	0.0
Agriculture wage & salary jobs 1/	Jobs	900	20.0	900	20.0
Transient accommodations tax revenues	\$1,000	770	-37.3	1,547	-30.3
General excise & use tax base	\$1,000	184,807	-7.9	369,845	-8.5
Retailing tax base	\$1,000	52,939	-19.3	109,852	-14.8
Services tax base	\$1,000	35,541	26.8	67,935	20.5
Contracting tax base	\$1,000	16,305	-6.7	33,116	-14.0
Hotel rental tax base	\$1,000	11,695	-31.2	21,139	-33.8
Producing tax base	\$1,000	1,546	-2.4	2,865	9.1
Visitor arrivals 3/	Persons	262,560	-5.2	503,480	-2.0
Westbound visitors	Persons	233,110	7.3	438,240	2.7
Eastbound visitors	Persons	29,450	-50.7	65,240	-24.9
Hotel occupancy rates 2/	%	68.4	1.0	67.6	-1.4

1/ Labor force and jobs are averages based on monthly rounded data. Labor force data were rebenchmarked 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 Department of Labor & Industrial Relations; Department of Taxation; Hawaii Visitors & Convention Bureau; and PKF-Hawaii. Compiled by Hawaii Department of Business, Economic Development & Tourism.

## A. LABOR FORCE AND JOBS

Hawaii's labor market continued its split personality in the second quarter. Civilian employment and the unemployment rate improved while nonagricultural wage and salary jobs declined. Overall, the labor market appears to be in a holding pattern.

Both the number of unemployed and the unemployment rate declined in the second quarter of 1998 relative to the second quarter of 1997. The number of unemployed fell by approximately 5,000, or by 12.8 percent over the year (Table A-3). The civilian unemployment rate declined by almost a full percentage point to 5.9 percent over the same period (Table A-4).

These unemployment declines could have occurred because people were leaving the labor force. But this appears not to be the case: the civilian labor force, the number of working-age persons either employed or unemployed, expanded by 0.3 percent in the second quarter of 1998 over the second quarter of 1997 (Table A-2). This growth matched the average rate of labor force expansion for 1997 as a whole.

By implication, the number of civilians employed must have expanded over the year ending in the second quarter. Indeed, civilian employment grew by 1.3 percent, the largest rate of increase since the fourth quarter of 1996 (Table A-2).

Still, the alternative measure of labor market positions, non-agricultural wage and salary jobs, fell by 0.8 percent over the same period (Table A-5). This pattern of rising ci-

vilian employment and declining non-agricultural wage and salary jobs has persisted since 1995. One explanation of this phenomenon is that the number of self-employed is rising in Hawaii. This seems to be confirmed by U.S. Bureau of Economic Analysis data for Hawaii, indicating that proprietors' employment increased at an annual average rate of 2.4 percent between 1994 and 1996. Moreover, the proprietors' income portion of personal income has grown at a healthy 2.4 to 2.8 percent rate for the last two quarters (Table B-5).

Most industries reported declines in non-agricultural wage and salary jobs in the second quarter of 1998 relative to the year-earlier period. Industries with declining jobs included construction (-3.6 percent, Table A-6), manufacturing (-3.3 percent, Table A-7), transportation (-2.4 percent, Table A-8), retail trade (-1.9 percent, Table A-11), finance, insurance and real estate (-2.8 percent, Table A-13), and hotels (-1.4 percent, Table A-15).

Jobs in services grew by 0.5 percent in the second quarter of 1998 over the second quarter of 1997 (Table A-14). In addition, agricultural wage and salary jobs expanded by 8.1 percent to 7,350 (Table A-19).

In the public sector, federal civilian job reductions were offset by small state and local job increases. Federal government jobs fell by 1.3 percent, while state and local jobs each grew by 0.6 percent from the second quarter of 1997 through the second quarter of 1998 (Tables A-16 through A-18).

**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	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	528,950	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

1/ Quarterly data contains unrevised numbers.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	21,250	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	-3.6	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	35,100	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	-2.8	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	30,300	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	-1.3	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

**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>
<b>Number of Jobs</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by the Hawaii Department of Business, Economic Development & Tourism from the Hawaii Department of Labor & Industrial Relations monthly rounded data.

Source: Hawaii Department of Labor & Industrial Relations.

## B. INCOME AND PRICES

According to the U.S. Bureau of Economic Analysis (BEA), Hawaii personal income continued its relatively healthy growth in the first quarter of 1998. Nearly all industries experienced some growth in earnings. In addition, the price level, as measured by the Honolulu Consumer Price Index, actually fell in the first half of the year, thereby boosting real economic growth.

Personal income expanded by 2.6 percent in the first quarter of 1998 relative to the first quarter of 1997 (Table B-2). This was the fifth consecutive quarter of better than 2 percent growth. BEA slightly revised upward its estimate of 1997 personal income growth to 2.8 percent over 1996.

The largest component of personal income, wages and salaries, grew by 2.1 percent over the year ending with the first quarter of 1998 (Table B-3). This is consistent with other data from Hawaii DLIR showing increases in average hourly earnings from 1996 through 1997 for several industries, including wholesale trade (4.0 percent), construction and mining (3.9 percent), and banking and credit agencies (3.3 percent). Interestingly, in wholesale trade and construction and mining the average number of hours worked declined while hourly earnings rose.

Other components of personal income also showed upward growth: proprietors' income by 2.8 percent (Table B-5); dividends, interest, and rent by 3.5 percent (Table B-6); and transfer payments by 4.3 percent (Table B-7). The only component that declined was other labor income (-2.1 percent, Table B-4), which consists of employers' contributions to private benefit plans and various fees.

Most industries saw an increase in earnings from the first quarter of 1997

through the first quarter of 1998 (Table B-1). The largest percentage increases were in finance, insurance and real estate (6.4 percent), agricultural services, forestry, and fishing (5.0 percent), wholesale trade (4.5 percent), and transportation and public utilities (2.4 percent). Only construction and manufacturing had declines in earnings of 4.3 percent and 5.7 percent, respectively.

The growth in personal income is even larger in real terms because the average price level, as measured by the Honolulu Consumer Price Index (CPI) fell for the first time since data has been collected. From the first half of 1997 to the first half of 1998, the CPI fell 0.1 percent (Table B-9). Assuming the decline was uniform over the first six months, this implies a 2.7 percent increase in purchasing power. If this pattern holds for the rest of the year, this would be the highest rate of real personal income growth since 1990.

The Honolulu CPI reflects a major revision with the release of data for the first half of 1998. The U.S. Bureau of Labor Statistics (BLS) has revised expenditure weights on different components of the "market basket" for CPI calculations nationwide. These revisions reflect purchasing patterns based on the 1993-95 Consumer Expenditure Survey and replace the old 1982-84 weights. However, the total index is still expressed relative to 1982-84 (i.e. 1982-84 = 100). In addition, the revised index re-categorized some goods and services. "Recreation" has replaced the Entertainment group and now includes other items such as audio and video equipment. A new group called "Education and Communication" has been constructed from items that previously appeared in Housing and Other Goods and Services. These two new groups are indexed on a base of December 1997 = 100.

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

[In Millions of Dollars at Seasonally Adjusted Annual Rates]

Series	First Quarter 1997	Fourth Quarter 1997	First Quarter 1998	Percent Change to First Quarter 1998 from	
				First Quarter 1997	Fourth Quarter 1997
PERSONAL INCOME	30,586	31,096	31,379	2.6	0.9
Earnings By Industry	21,496	21,730	21,895	1.9	0.8
Wage and salary disbursements	17,251	17,479	17,619	2.1	0.8
Other labor income	1,772	1,741	1,734	-2.1	-0.4
Proprietors' income	2,473	2,510	2,543	2.8	1.3
Farm proprietors' income	11	11	7	-36.4	-36.4
Nonfarm proprietors' income	2,461	2,500	2,535	3.0	1.4
Dividends, interest, and rent	5,464	5,610	5,655	3.5	0.8
Transfer payments	5,007	5,133	5,220	4.3	1.7
Less: Pers. cont. for social insur.	1,380	1,377	1,392	0.9	1.1
Earnings By Industry	21,496	21,730	21,895	1.9	0.8
Farm Earnings	197	202	201	2.0	-0.5
Nonfarm Earnings	21,299	21,528	21,694	1.9	0.8
Private Earnings	15,862	15,983	16,118	1.6	0.8
Ag. serv., forestry, fishing & oth	140	146	147	5.0	0.7
Mining	16	16	16	0.0	0.0
Construction	1,397	1,311	1,337	-4.3	2.0
Manufacturing	795	813	750	-5.7	-7.7
Transport. and public utilities	1,800	1,824	1,843	2.4	1.0
Wholesale trade	779	809	814	4.5	0.6
Retail trade	2,642	2,648	2,669	1.0	0.8
Finance, insur., and real estate	1,716	1,778	1,826	6.4	2.7
Services	6,577	6,639	6,716	2.1	1.2
Government and gov't enterprises	5,438	5,545	5,577	2.6	0.6
Federal, civilian	1,253	1,258	1,268	1.2	0.8
Military	1,639	1,624	1,640	0.1	1.0
State and local	2,546	2,664	2,669	4.8	0.2

Data have been revised.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: July 23, 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 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	11,712	12,013	12,212	12,292	12,057
1983	12,894	13,113	13,243	13,622	13,218
1984	13,723	14,090	14,317	14,424	14,139
1985	14,794	14,961	15,182	15,477	15,104
1986	15,810	16,015	16,344	16,593	16,191
1987	16,844	17,179	17,538	18,077	17,410
1988	18,572	19,080	19,373	20,014	19,260
1989	20,486	20,996	21,443	22,072	21,249
1990	22,936	23,697	24,376	24,957	23,992
1991	24,870	24,995	25,226	25,580	25,168
1992	26,365	26,761	25,170	27,557	26,463
1993	27,578	27,799	27,621	27,667	27,666
1994	27,956	28,232	28,637	29,052	28,469
1995	29,363	29,655	29,638	29,713	29,592
1996	29,905	30,052	30,171	30,159	30,072
1997	30,586	30,827	31,190	31,096	30,925
1998	31,379	(NA)	(NA)	(NA)	(NA)
Percentage Change from the Same Period in Previous Year					
1982	5.8	7.1	5.9	5.3	6.0
1983	10.1	9.2	8.4	10.8	9.6
1984	6.4	7.5	8.1	5.9	7.0
1985	7.8	6.2	6.0	7.3	6.8
1986	6.9	7.0	7.7	7.2	7.2
1987	6.5	7.3	7.3	8.9	7.5
1988	10.3	11.1	10.5	10.7	10.6
1989	10.3	10.0	10.7	10.3	10.3
1990	12.0	12.9	13.7	13.1	12.9
1991	8.4	5.5	3.5	2.5	4.9
1992	6.0	7.1	-0.2	7.7	5.1
1993	4.6	3.9	9.7	0.4	4.5
1994	1.4	1.6	3.7	5.0	2.9
1995	5.0	5.0	3.5	2.3	3.9
1996	1.8	1.3	1.8	1.5	1.6
1997	2.3	2.6	3.4	3.1	2.8
1998	2.6	(NA)	(NA)	(NA)	(NA)

Data have been revised.

NA Not available.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: July 23, 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 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	16,796	16,877	16,815	16,784	16,818
1996	16,820	16,965	17,070	17,041	16,974
1997	17,251	17,374	17,639	17,479	17,436
1998	17,619	(NA)	(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	6.0
1992	6.8	7.1	6.0	6.6	6.6
1993	2.7	3.1	1.2	-1.2	1.4
1994	0.6	-0.9	1.0	2.1	0.7
1995	0.6	1.1	0.2	-0.5	0.3
1996	0.1	0.5	1.5	1.5	0.9
1997	2.6	2.4	3.3	2.6	2.7
1997	2.1	(NA)	(NA)	(NA)	(NA)

Data have been revised.

NA Not available.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: July 23, 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 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	1,900	1,890	1,863	1,840	1,873
1996	1,816	1,812	1,804	1,781	1,803
1997	1,772	1,771	1,783	1,741	1,767
1997	1,734	(NA)	(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	-2.9	-2.3	-4.6	-5.7	-3.9
1996	-4.4	-4.1	-3.2	-3.2	-3.7
1997	-2.4	-2.3	-1.2	-2.2	-2.0
1998	-2.1	(NA)	(NA)	(NA)	(NA)

Data have been revised.

NA Not available.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: July 23, 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 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	2,173	2,200	1,955	2,276	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	2,446	2,465	2,449	2,450	2,453
1996	2,470	2,483	2,457	2,452	2,466
1997	2,473	2,481	2,489	2,510	2,488
1998	2,543	(NA)	(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	5.7	5.6	-5.2	11.8	4.4
1993	5.0	3.6	18.5	4.2	7.5
1994	1.0	2.9	2.8	2.1	2.2
1995	6.2	5.1	2.8	1.2	3.8
1996	1.0	0.7	0.3	0.1	0.5
1997	0.1	-0.1	1.3	2.4	0.9
1998	2.8	(NA)	(NA)	(NA)	(NA)

Data have been revised.

NA Not available.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: June 27, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by Hawaii 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	1,930	1,939	1,905	1,738	1,878
1983	1,982	2,068	2,171	2,259	2,120
1984	2,291	2,351	2,466	2,527	2,409
1985	2,533	2,551	2,572	2,634	2,573
1986	2,754	2,774	2,770	2,730	2,757
1987	2,748	2,770	2,824	2,992	2,834
1988	3,011	3,030	3,122	3,276	3,110
1989	3,431	3,545	3,522	3,569	3,517
1990	3,715	3,851	4,016	4,083	3,916
1991	4,055	4,053	4,074	4,146	4,082
1992	4,128	4,209	2,640	4,188	3,791
1993	4,270	4,184	4,135	4,142	4,183
1994	4,224	4,402	4,592	4,785	4,501
1995	5,017	5,103	5,109	5,197	5,107
1996	5,298	5,287	5,339	5,361	5,321
1997	5,464	5,525	5,575	5,610	5,544
1998	5,655	(NA)	(NA)	(NA)	(NA)
Percentage Change from the Same Period in Previous Year					
1982	11.4	8.1	-0.5	-10.1	1.9
1983	2.7	6.7	14.0	30.0	12.9
1984	15.6	13.7	13.6	11.9	13.6
1985	10.6	8.5	4.3	4.2	6.8
1986	8.7	8.7	7.7	3.6	7.2
1987	-0.2	-0.1	1.9	9.6	2.8
1988	9.6	9.4	10.6	9.5	9.7
1989	13.9	17.0	12.8	8.9	13.1
1990	8.3	8.6	14.0	14.4	11.4
1991	9.2	5.2	1.4	1.5	4.2
1992	1.8	3.8	-35.2	1.0	-7.1
1993	3.4	-0.6	56.6	-1.1	10.3
1994	-1.1	5.2	11.1	15.5	7.6
1995	18.8	15.9	11.3	8.6	13.5
1996	5.6	3.6	4.5	3.2	4.2
1997	3.1	4.5	4.4	4.6	4.2
1998	3.5	(NA)	(NA)	(NA)	(NA)

Data have been revised.

NA Not available.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: July 23, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by Hawaii 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	4,567	4,689	4,765	4,801	4,706
1996	4,862	4,872	4,872	4,889	4,874
1997	5,007	5,058	5,101	5,133	5,075
1998	5,220	(NA)	(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	10.5	11.5	11.2	9.6	10.7
1996	6.5	3.9	2.2	1.8	3.6
1997	3.0	3.8	4.7	5.0	4.1
1998	4.3	(NA)	(NA)	(NA)	(NA)

Data have been revised.

NA Not available.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: July 23, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by Hawaii 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	1,363	1,369	1,363	1,359	1,364
1996	1,360	1,367	1,372	1,365	1,366
1997	1,380	1,382	1,397	1,377	1,384
1998	1,392	(NA)	(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	0.0	1.8	0.9	0.1	0.7
1996	-0.2	-0.1	0.7	0.4	0.2
1997	1.5	1.1	1.8	0.9	1.3
1998	0.9	(NA)	(NA)	(NA)	(NA)

Data have been revised.

NA Not available.

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: July 23, 1998, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>, and tabulations by Hawaii 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.

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

## C. TAX BASE AND REVENUES

State general fund tax revenues grew at a rapid pace in the second quarter of 1998 relative to the second quarter of 1997. Some of this growth was due to the continuing effects of the technical change in withholding rates for individual income taxes. However some also appears to reflect improvements in economic activity. The improvements are not widespread however, as a decline in general excise tax revenue suggests.

State revenues to the general fund expanded by 9.9 percent in the second quarter of 1998 over the second quarter of 1997 (Table C-2). This was the largest annual percentage increase on a quarterly basis since the second quarter of 1996.

All of this increase in revenue came from the individual income tax. Individual income tax revenue grew by 36.7 percent between the second quarter of 1997 and the second quarter of 1998 (Table C-4). Much of this increase was due to a reduction in refunds and increase in payments with returns associated with the reduction in maximum withholding rates begun in late 1996. Still, over one-third of the growth was due to higher declarations of estimated taxes and withholdings. This suggests some improvement in economic activity consistent with the increases in personal income.

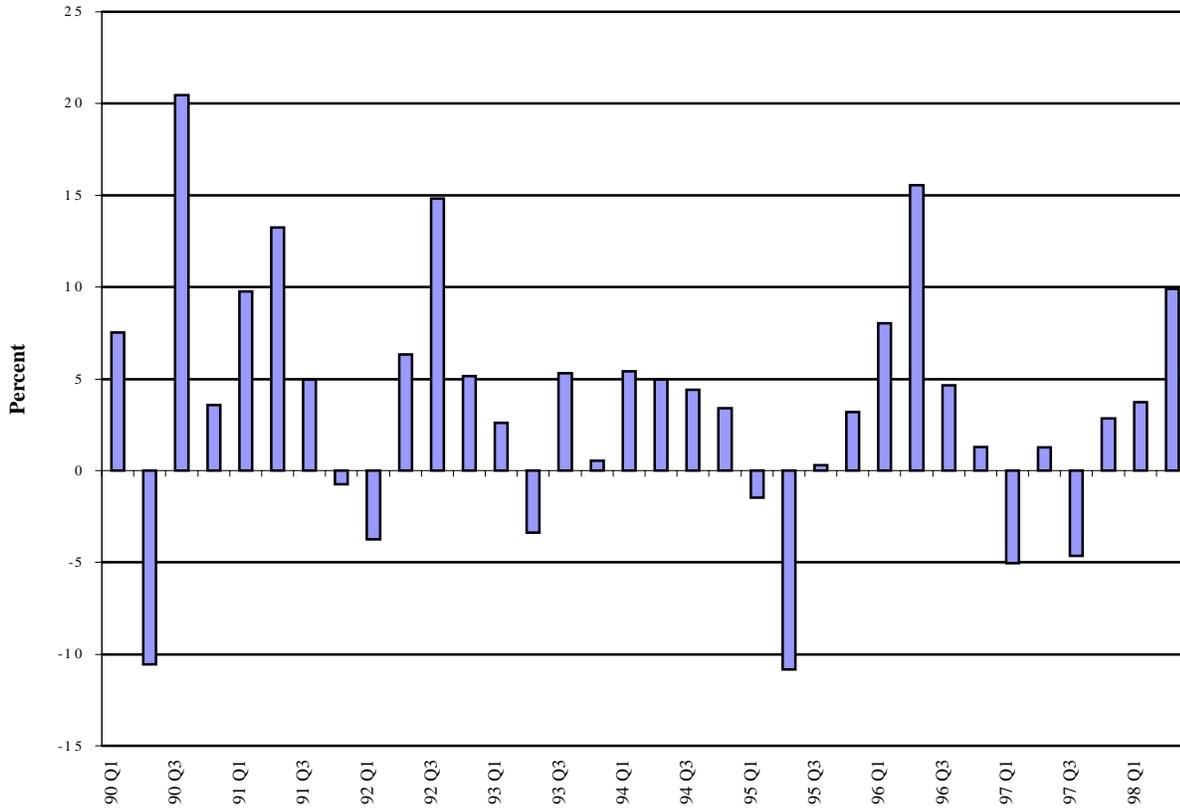
On the other hand, general excise and use tax (GEUT) revenue fell by 4.8 percent between the second quarter of 1997 and the second quarter of 1998 (Table C-3). Through

the first half of the year, GEUT revenue is down about 1 percent. It may be that increases in income are not yet translating into increased spending.

Both net corporate income and transient accommodations tax revenues fell in the second quarter. Net corporate income tax revenues were down 5.9 percent from the second quarter of 1997 (Table C-5). Transient accommodations tax revenue fell 5.5 percent over the same period (Table C-6).

As mentioned in the June 1998 issue of the *QSER*, the collection of general excise tax via electronic transfers of funds separated tax payments from tax returns. This had the effect of raising the portion of general fund revenue that is unallocated to specific industries (Table C-7). Indeed, for the first half of 1998, unallocated GEUT revenues were 77 percent higher than in the first half of 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 the present, DBEDT will continue publishing data on the GEUT bases (Tables C-8 through C-14) as reported by the Department of Taxation. However readers are cautioned that after 1995, the data may not be comparable to earlier data and that they are subject to revision.

**Figure 2: Annual Growth in General Fund Revenues**  
 [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>
<b>In Thousands of Dollars</b>				
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
<b>Percentage Change from the Same Period in Previous Year</b>				
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

These series represent data as reported by the Hawaii 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 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	688,682	676,222	704,750	686,966	2,756,619
1998	714,466	743,002	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii 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	1,250,204
1991	345,988	304,240	335,721	301,869	1,287,818
1992	338,288	318,844	325,339	317,342	1,299,813
1993	332,689	327,549	332,661	315,899	1,308,798
1994	353,369	330,321	345,770	318,483	1,347,943
1995	363,101	335,907	348,033	339,644	1,386,685
1996	386,710	357,416	379,032	346,610	1,469,768
1997	365,069	366,563	356,533	344,846	1,433,011
1998	375,018	348,955	(NA)	(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	(NA)	(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 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	900,963
1992	228,846	215,991	244,012	233,356	922,205
1993	233,868	211,674	262,952	242,909	951,403
1994	236,379	220,302	281,470	265,326	1,003,477
1995	224,594	154,310	277,057	262,848	918,809
1996	242,262	217,770	276,896	258,539	995,466
1997	227,409	213,469	269,598	274,526	985,002
1998	247,815	291,713	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

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

Source: Hawaii 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	86,268
1991	23,720	36,369	11,090	-611	70,568
1992	17,438	15,863	11,156	-1,721	42,736
1993	6,535	13,374	13,513	-11,185	22,237
1994	10,452	26,213	9,133	-11,572	34,226
1995	12,869	19,818	12,030	-7,380	37,337
1996	15,451	28,338	9,910	-2,456	51,243
1997	18,055	32,330	10,594	-5,386	55,593
1998	10,593	30,409	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

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

Source: Hawaii 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 <sup>1/</sup>	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	(NA)	(NA)	(NA)
Percentage Change from the Same Period in Previous Year					
1988 <sup>1/</sup>	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	(NA)	(NA)	(NA)

NA Not available.

<sup>1/</sup> Tax collection for this category began in 1987.

Source: Hawaii 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	13,957	20,810	19,005	10,717	64,489
1998	25,784	35,545	(NA)	(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	-39.8	99.2	151.8	10.4	26.7
1998	84.7	70.1	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii Department of Taxation.

**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	11,976,929	11,730,073	11,620,690	11,536,476	46,864,168
1998	11,864,182	10,691,817	(NA)	(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	-2.8	-0.4	-7.3	-1.4	-3.0
1998	-0.9	-8.8	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii Department of Taxation.

**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	4,027,020	3,916,963	3,855,469	3,914,118	15,713,570
1998	3,940,664	3,552,300	(NA)	(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	-4.3	2.4	-9.2	2.7	-2.3
1998	-2.1	-9.3	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii 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	1,344,678	1,392,746	1,332,247	1,274,035	5,343,706
1998	1,357,297	1,360,631	(NA)	(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	-2.0	-2.9	-10.0	-4.3	-4.9
1998	0.9	-2.3	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii 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	674,016	749,582	718,458	729,365	2,871,421
1998	721,967	656,705	(NA)	(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	-18.3	-8.0	-14.3	-9.7	-12.6
1998	7.1	-12.4	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii Department of Taxation.

**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	533,839	535,360	490,538	480,717	2,040,454
1998	543,863	429,408	(NA)	(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	3.0	3.3	-10.5	1.5	-0.8
1998	1.9	-19.8	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii 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	134,720	111,107	135,646	113,768	495,241
1998	143,317	100,819	(NA)	(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	8.5	-10.4	24.5	-6.6	3.4
1998	6.4	-9.3	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii 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	153,921	123,204	99,655	110,256	487,036
1998	118,341	98,853	(NA)	(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	21.0	11.1	-8.6	-16.0	1.8
1998	-23.1	-19.8	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii Department of Taxation.

## D. TOURISM

Economic activity from the visitor industry declined slightly in the second quarter. This was entirely due to lower eastbound traffic. Westbound traffic maintained its recent robust pace and kept visitor arrivals from falling further.

Overall, total visitor arrivals declined 0.1 percent in the second quarter of 1998 from the year-earlier quarter (Table D-2). This followed a decline of 1.7 percent in the first quarter and overall growth of 0.7 percent for 1997 over 1996.

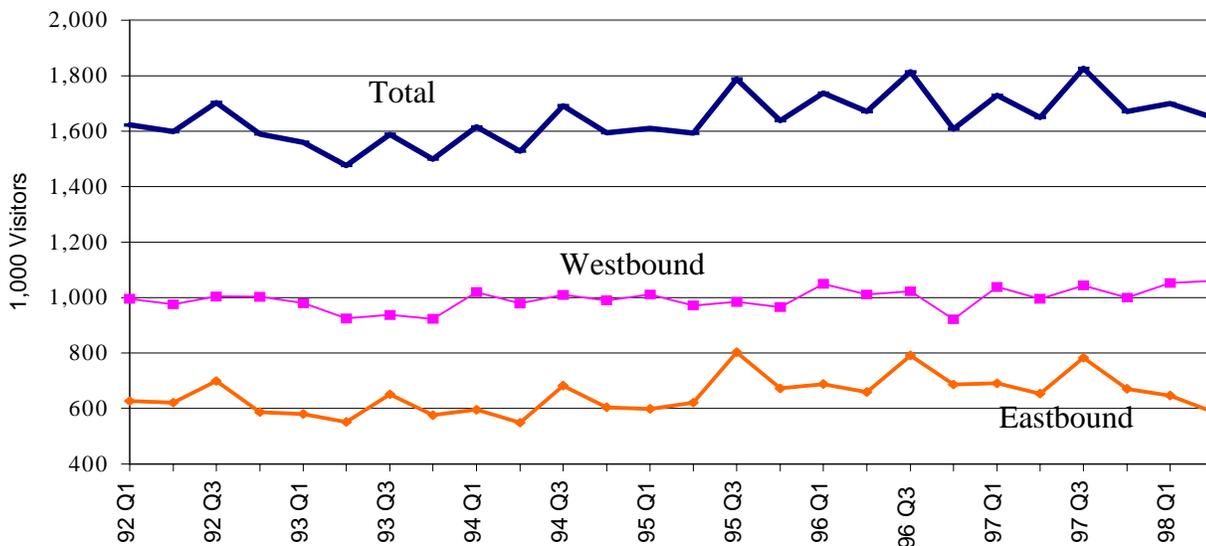
The decline is entirely due to lower eastbound traffic. The number of eastbound arrivals fell 10.1 percent in the second quarter of 1998 relative to the same period in 1997 (Table D-4). This marks the sixth consecutive quarter of year-to-year eastbound arrivals.

On the other hand, westbound arrivals grew a remarkable 6.5 percent in the second quarter (Table D-3). Westbound arrivals have been growing since the third quarter of 1997, and the second quarter's 6.5 percent rate is the highest second quarter annual growth since 1989.

These patterns are mirrored in the average daily visitor census (Table D-5). The average number of eastbound visitors present fell by almost 11 percent in the second quarter of 1998 relative to the year-earlier quarter. On the other hand, the average number of westbound visitors present on a given day increased by 4.2 percent over the same period. Overall, there were slightly more visitors in Hawaii during the second quarter of 1998 (148,790) than during the second quarter of 1997.

**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
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

1/ Staying overnight or longer.

2/ HVCB revised data for 1997 and 1998 in June, 1998.

Sources: Hawaii Department of Business, Economic Development & Tourism, *State of Hawaii Data Book, 1987*; *State of Hawaii Data Book, 1993-94*; 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	(NA)	(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	(NA)	(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	(NA)	(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	(NA)	(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	(NA)	(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	(NA)	(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>
<b>Average Daily Visitors</b>					
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	(NA)	(NA)	(NA)
<b>Average Daily Westbound Visitors</b>					
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	(NA)	(NA)	(NA)
<b>Average Daily Eastbound Visitors</b>					
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	(NA)	(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>
<b>Average Daily Visitors</b>					
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	(NA)	(NA)	(NA)
<b>Average Daily Westbound Visitors</b>					
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	(NA)	(NA)	(NA)
<b>Average Daily Eastbound Visitors</b>					
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	(NA)	(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	(NA)	(NA)	(NA)

NA Not available.

Quarterly averages are computed by Hawaii Department of Business, Economic Development & Tourism from PKF monthly averages.

Sources: Hawaii Department of Business, Economic Development & Tourism and PKF-Hawaii.

## E. CONSTRUCTION

In general, private construction activity slowed during the second quarter. However state capital improvement project (CIP) expenditures increased, helping to support construction activity overall.

In the past, DBEDT lagged the general excise contracting tax base by one month as an estimate of the value of construction completed. However, the actual lag between completed construction and tax payments is not known. With the introduction of electronic tax filing the true lag length became even murkier. For these reasons, Table E-1 will simply report the current contracting excise tax base. This measure of construction activity declined by 12.4 percent from the second quarter of 1997 through the second quarter of 1998 (alternatively, Table C-11).

The value of private building authorizations fell by 42 percent in the second quarter of 1998 compared to the second quarter of 1997. However, the decline was less sharp than this suggests because the value of authorizations in the second quarter of 1997 was unusually large. Residential authorizations in 1997 were inflated by two large projects, the Nauru Towers and a retirement residence in Hawaii Kai. Commercial and industrial authorizations were higher than normal in 1997 because of hotel reconstruction on Kauai. The effect of these relatively large

projects in 1997 make the numbers in 1998 appear relatively small.

The number of single family unit authorizations actually increased slightly over the period. Single family unit authorizations grew by 4.1 percent from the second quarter of 1997 through the second quarter of 1998 (Table E-2). However, multi-family units authorized shows the pattern of large increases in the second quarter of 1997 followed by large decreases in the second quarter of 1998. Again, this was due to the two large residential projects in 1997.

By county, the estimated value of private building authorizations fell in all counties other than Hawaii County (Table E-6). Hawaii County enjoyed a 22.1 percent increase in the value of authorizations. The relatively large reductions in Honolulu and Kauai counties reflect the projects previously mentioned.

State CIP expenditures grew by a dramatic 66.4 percent in the second quarter of 1998 over the year-earlier quarter (Table E-7). The large growth in expenditures via revenue bonds was dominated by funds for the state housing loan program. The growth in general obligation bond expenditures went largely for educational facilities, the Hawaiian Home Lands Trust Fund, and the Rental Housing Trust Fund.

**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	2,871.4	1,179.2	542.5	264.5	372.2	(NA)
1997 1Qtr.	674.0	259.0	88.4	72.8	97.8	181.8
2 Qtr.	749.6	426.2	220.8	93.6	111.8	121.6
3 Qtr.	718.5	266.0	132.9	46.8	86.4	200.9
4 Qtr.	729.4	228.1	100.5	51.4	76.3	(NA)
1998 1Qtr.	722.0	260.5	118.2	50.4	91.9	(NA)
2 Qtr.	656.7	246.7	121.3	48.5	76.9	(NA)

NA Not available.

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

2/ Includes hotels.

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

**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	80.7
1997	-12.6	5.4	11.4	4.7	-2.4	(NA)
1997 1 Qtr.	-18.3	-7.7	-25.3	-7.3	16.8	-43.1
2 Qtr.	-8.0	58.7	122.5	49.8	5.0	56.0
3 Qtr.	-14.3	-24.5	-25.3	-27.7	-21.4	-37.9
4 Qtr.	-9.7	5.2	10.1	8.7	-5.8	(NA)
1998 1 Qtr.	7.1	5.7	33.7	-30.8	-5.9	(NA)
2 Qtr.	-12.4	-42.0	-45.1	-48.2	-30.9	(NA)

NA Not available.

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

2/ Includes hotels.

Sources: Hawaii State Department of Taxation; F. W. Dodge; county building departments; and 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>
<b>Number of Units</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Sources: 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>
<b>Number of Units</b>					
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	(NA)	(NA)	(NA)
<b>Percentage Change from the Same Period in Previous Year</b>					
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	(NA)	(NA)	(NA)

NA Not available.

Sources: 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	(NA)	(NA)
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	(NA)	(NA)

NA Not available.

Source: First Hawaiian Bank (FHB). FHB has discontinued the update of this index. Hawaii Department of Business, Economic Development & Tourism is reviewing the index with the expectation of continuing it in the future.

**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	(NA)	(NA)
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	(NA)	(NA)

NA Not available.

Source: First Hawaiian Bank (FHB). FHB has discontinued the update of this index. Hawaii Department of Business, Economic Development & Tourism is reviewing the index with the expectation of continuing it in the future.

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

<i>Year</i>	<i>State</i>	<i>City &amp; 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

Sources: 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 &amp; 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

Sources: 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
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

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 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** – Compiled by First Hawaiian Bank. These indexes measure changes in contractors' costs for building materials and labor.

**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.

**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 westbound 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 accommodations 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 which 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.