

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu and for the United States, the implicit price deflator for gross state product, and comparisons of Honolulu living costs with those in other urban areas and cities in foreign countries. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

The Honolulu Consumer Price Index has been compiled by the U.S. Bureau of Labor Statistics (BLS) since December 1963. This index measures the average change in prices of goods and services purchased by urban households. Prices are expressed as a percent of the average levels reported in the base period, 1982-1984. Current data for Honolulu and other cities are published in *CPI Detailed Report*, issued monthly by BLS.

Official comparisons of Honolulu and Mainland living costs are no longer being made on a regular basis. The annual four-person family budgets estimated by the BLS for Honolulu and the Mainland were discontinued after 1981. Unofficial estimates by the Bank of Hawaii had been discontinued but were recently restored for 1982-1998. A comparison of prices in Hawaii and Washington, D.C., compiled for the U.S. Office of Personnel Management as a basis for cost of living adjustments for Federal employees, was most recently published for 1996. These studies are subject to technical limitations and must be interpreted with considerable caution.

No composite wholesale or producer price index is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaiian Agriculture*, issued by the Hawaii Agricultural Statistics Service, and in various other publications of the Hawaii State Department of Agriculture. Wholesale price statistics of other commodities are seldom available.

Data on prices and living costs for the nation as a whole and other areas are summarized in the *Statistical Abstract of the United States: 1998*, Section 15. Long-term trends for Hawaii are traced in *Historical Statistics of Hawaii*, Section 5.

**Table 14.01-- IMPLICIT PRICE DEFLATOR FOR EXPENDITURES ON
GROSS STATE PRODUCT: 1958 TO 1998**

[1992 = 100. Base year has been shifted from 1987=100]

Year	Deflator 1992 = 100	Percent change from year previous	Year	Deflator 1992 = 100	Percent change from year previous
1958	21.8	(NA)	1979	53.7	9.0
1959	21.7	-0.4	1980	57.0	6.2
1960	22.0	1.3	1981	59.6	4.4
1961	23.0	4.5	1982	63.9	7.2
1962	22.9	0.0	1983	66.6	4.2
1963	23.9	4.3	1984	69.1	3.7
1964	23.8	-0.5	1985	71.3	3.3
1965	24.1	1.0	1986	73.0	2.3
1966	25.0	3.8	1987	76.3	4.5
1967	26.1	4.3	1988	80.3	5.3
1968	26.9	3.4	1989	84.4	5.1
1969	28.3	5.3	1990	89.8	6.4
1970	30.2	6.7	1991	95.4	6.3
1971	31.1	2.8	1992	100.0	4.8
1972	32.4	4.1	1993	102.6	2.6
1973	34.9	7.9	1994	105.2	2.5
1974	40.3	15.2	1995	107.2	1.9
1975	40.8	1.4	1996	108.8	1.5
1976	43.1	5.7	1997	109.5	0.7
1977	45.4	5.2	1998	109.3	-0.2
1978	49.3	8.6			

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

Table 14.02-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES: 1940 TO 1998

[1982-1984 average = 100. Excludes rent before 1963]

Year	Honolulu		United States	
	Annual average	Percent change from year previous	Annual average	Percent change from year previous
1940	14.7	(NA)	14.0	(NA)
1941	15.5	5.4	14.7	5.0
1942	17.6	13.5	16.3	10.9
1943	18.9	7.4	17.3	6.1
1944	19.2	1.6	17.6	1.7
1945	19.7	2.6	18.0	2.3
1946	21.0	6.6	19.5	8.3
1947	24.4	16.2	22.3	14.4
1948	25.7	5.3	24.1	8.1
1949	25.2	-1.9	23.8	-1.2
1950	24.3	-3.6	24.1	1.3
1951	25.7	5.8	26.0	7.9
1952	26.5	3.1	26.5	1.9
1953	26.7	0.8	26.7	0.8
1954	26.9	0.7	26.9	0.7
1955	27.3	1.5	26.8	-0.4
1956	27.7	1.5	27.2	1.5
1957	28.6	3.2	28.1	3.3
1958	30.0	4.9	28.9	2.8
1959	30.5	1.7	29.1	0.7
1960	31.3	2.6	29.6	1.7
1961	32.1	2.6	29.9	1.0
1962	32.8	2.2	30.2	1.0
1963	33.5	2.1	30.6	1.3
1964	33.7	0.6	31.0	1.3
1965	34.4	2.1	31.5	1.6
1966	35.3	2.6	32.4	2.9
1967	36.3	2.8	33.4	3.1
1968	37.7	3.9	34.8	4.2
1969	39.4	4.5	36.7	5.5
1970	41.5	5.3	38.8	5.7
1971	43.2	4.1	40.5	4.4
1972	44.6	3.2	41.8	3.2
1973	46.6	4.5	44.4	6.2
1974	51.5	10.5	49.3	11.0
1975	56.3	9.3	53.8	9.1
1976	59.1	5.0	56.9	5.8
1977	62.1	5.1	60.6	6.5
1978	66.9	7.7	65.2	7.6
1979	74.3	11.1	72.6	11.3

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**Table 14.02-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS
(CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES:
1940 TO 1997--Con.**

Year	Honolulu		United States	
	Annual average	Percent change from previous period	Annual average	Percent change from previous period
1980	83.0	11.7	82.4	13.5
1981	91.7	10.5	90.9	10.3
1982	97.2	6.0	96.5	6.2
1983	99.3	2.2	99.6	3.2
1984	103.5	4.2	103.9	4.3
1985	106.8	3.2	107.6	3.6
1986	109.4	2.4	109.6	1.9
1987	114.9	5.0	113.6	3.6
1988	121.7	5.9	118.3	4.1
1989	128.7	5.8	124.0	4.8
1990	138.1	7.3	130.7	5.4
1991	148.0	7.2	136.2	4.2
1992	155.1	4.8	140.3	3.0
1993	160.1	3.2	144.5	3.0
1994	164.5	2.7	148.2	2.6
1995	168.1	2.2	152.4	2.8
1996	170.7	1.5	156.9	3.0
1997	171.9	0.7	160.5	2.3
1998	171.5	-0.2	163.0	1.6

NA Not available.

Source: For Honolulu: 1940-1963 from surveys by Eugene Danaher and Hawaii State Department of Labor and Industrial Relations, cited in Hawaii State Department of Planning and Economic Development, *The Honolulu Consumer Price Index, 1940-1986* (Statistical Report 187, May 30, 1986), as shifted to 1982-1984 base. 1987-1998: U. S. Department of Labor, Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, for Honolulu, BLS FAX-on-Demand Code 9130 and 9225; for the U.S., Code 9210; and <<http://www.stats.bls.gov>> February 19, 1999.

**Table 14.03-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY
TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1998**

[1982-1984 average = 100]

Year	All urban consumers (CPI-U)			Urban wage earners and clerical workers (CPI-W)		
	Annual average	First half	Second half	Annual average	First half	Second half
1984	103.5	102.5	104.4	104.3	103.0	105.5
1985	106.8	106.3	107.4	107.9	107.4	108.4
1986	109.4	108.9	109.9	110.3	109.9	110.7
1987	114.9	113.3	116.5	115.9	114.3	117.6
1988	121.7	120.1	123.4	122.8	121.1	124.5
1989	128.7	126.4	131.1	129.7	127.4	132.0
1990	138.1	135.5	140.8	138.9	136.3	141.6
1991	148.0	146.8	149.1	148.9	147.7	150.1
1992	155.1	153.9	156.4	155.9	154.6	157.2
1993	160.1	158.6	161.6	160.7	159.4	162.0
1994	164.5	163.4	165.7	164.7	163.5	165.8
1995	168.1	166.9	169.4	168.4	167.2	169.7
1996	170.7	170.5	171.0	171.0	170.8	171.2
1997	171.9	172.1	171.8	172.2	172.4	172.0
1998	171.5	172.0	171.0	171.6	172.3	171.0

Source: U.S. Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI, FAX-on-Demand Code 9225, February 19, 1999.

Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1994 TO 1998

[Unless otherwise specified, 1982-1984 average=100]

Group	1994	1995	1996	1997	1998
All items	164.5	168.1	170.7	171.9	171.5
Food and beverages	153.4	156.8	156.6	159.2	159.1
Food	153.2	157.0	156.6	159.5	159.1
Food at home	157.8	162.1	159.5	164.2	162.6
Cereals and bakery products	163.5	168.4	170.8	168.8	(NA)
Meats, poultry, fish, and eggs	137.9	136.0	135.6	137.8	(NA)
Meats, poultry, and fish	138.1	135.8	135.1	137.2	(NA)
Dairy products	132.4	133.8	139.4	144.9	(NA)
Fruits and vegetables	192.3	201.2	194.9	204.4	(NA)
Other foods at home	164.0	173.4	165.1	172.5	(NA)
Food away from home	146.4	149.2	150.8	152.6	153.3
Alcoholic beverages	155.8	152.3	156.2	155.2	158.8
Housing	171.6	174.7	176.8	177.1	176.0
Shelter	188.7	191.7	193.5	192.4	192.3
Renters' costs 1/	195.6	197.9	200.3	200.0	(NA)
Rent, residential	185.9	187.0	187.3	185.7	183.5
Other renters' costs	212.0	220.9	235.3	242.8	(NA)
Homeowners' costs 1/	194.6	197.8	199.3	197.9	(NA)
Owners' equivalent rent 1/	195.6	198.9	200.4	199.0	198.3
Fuel and other utilities	121.3	128.4	133.8	137.1	131.0
Fuels	101.9	111.6	115.9	119.8	112.2
Gas (piped) and electricity	101.1	110.8	115.2	119.1	111.8
Electricity	101.0	111.1	114.5	118.6	111.4
Utility (piped) gas	94.2	98.9	114.7	116.1	107.5
Household furnishings and operation	145.6	146.0	146.4	150.0	145.8
Apparel and upkeep	118.7	117.5	118.5	117.3	112.2
Apparel commodities	115.3	114.0	115.0	113.8	(NA)
Men's and boys' apparel	149.8	152.1	149.0	147.3	(NA)
Women's and girls' apparel	95.9	94.6	95.2	94.6	(NA)
Footwear	98.2	94.4	96.8	98.1	(NA)
Transportation	156.4	162.4	167.0	166.0	162.5
Private transportation	156.7	162.8	168.2	167.2	161.7
Motor fuel	123.1	125.5	131.9	132.0	129.3
Gasoline	126.0	128.4	134.9	135.1	132.4
Unleaded, regular	(NA)	(NA)	141.4	141.9	138.6
Unleaded midgrade 2/	(NA)	(NA)	105.9	105.3	103.6
Unleaded, premium	(NA)	(NA)	123.8	123.8	121.9
Public transportation	152.5	158.4	156.0	156.9	(NA)

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Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1994 TO 1998 -- Con.

Group	1994	1995	1996	1997	1998
Medical care	206.0	209.8	215.0	217.3	226.1
Entertainment	142.3	144.2	147.8	147.9	(NA)
Education & Communication 3/	(NA)	(NA)	(NA)	(NA)	99.1
Recreation 3/	(NA)	(NA)	(NA)	(NA)	100.8
Other goods and services	209.6	216.8	226.5	239.0	256.1
Personal care	162.9	165.8	169.4	169.2	(NA)
All items	164.5	168.1	170.7	171.9	171.5
Commodities	142.9	145.1	146.3	148.3	147.5
Food and beverages	153.4	156.8	156.6	159.2	159.1
Commodities less food and beverages	134.5	135.8	138.1	139.6	138.2
Nondurables less food and beverages	138.6	139.6	142.2	143.2	142.9
Durables	128.2	130.0	131.8	134.2	131.0
Services	183.5	188.3	192.1	192.8	192.6
Medical care services	208.0	211.7	216.7	217.4	226.1
Special indexes:					
All items less shelter	155.0	158.9	161.8	164.0	163.4
All items less medical care	162.2	165.8	168.3	169.4	168.6
All items less energy	169.7	173.1	175.5	176.7	176.6
Energy	113.2	119.0	124.4	126.3	121.0
All items less food and energy	(NA)	(NA)	180.5	181.4	181.3
Commodities less food	135.5	136.6	138.9	140.3	139.1
Nondurables less food	139.8	140.3	143.0	143.9	143.9
Nondurables	146.8	149.1	150.1	152.0	151.9
Services less rent of shelter 1/	179.9	186.8	192.9	195.4	195.3
Services less medical care	181.1	186.0	189.7	190.3	189.7

NA Not available.

1/ Indexes on a December 1982=100 base.

2/ Indexes on a December 1993=100 base.

3/ Indexes on a December 1997=100 base.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI; BLS FAXSTAT 9225, August 13, 1996; and for 1995-98, BLS FAX-on Demand Codes 2265 and 9225; and <<http://stats.bls.gov/special.requests/sanfrancisco/cpihono.txt>>, February 19, 1999.

**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), FOR
THE UNITED STATES AND HONOLULU, DECEMBER 1996 AND 1997**

[Percent of all items. 1996 based on Consumer Expenditure Survey 1982-84. 1997 based on
Consumer Expenditure Survey 1993-95]

Group	1996 CPI-U		1997 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
Relative importance of local area	100.000	0.395	100.000	0.434
EXPENDITURE CATEGORY				
All items	100.000	100.000	100.000	100.000
Food and beverages	17.484	19.416	16.310	17.944
Food	15.913	18.054	15.326	16.766
Food at home	10.040	11.825	9.646	9.476
Cereals and bakery products	1.479	1.577	1.536	(NA)
Meats, poultry, fish, and eggs	3.002	3.242	2.629	(NA)
Meats, poultry, and fish	2.797	2.997	2.499	(NA)
Dairy products	1.245	0.979	1.037	(NA)
Fruits and vegetables	1.974	3.204	1.394	(NA)
Other foods at home	2.340	2.824	1.972	(NA)
Food away from home	5.873	6.229	5.680	7.290
Alcoholic beverages	1.571	1.363	0.983	1.178
Housing	41.203	42.811	39.560	41.238
Shelter	28.194	32.096	29.788	34.086
Renters' costs	7.994	9.438	(NA)	(NA)
Rent, residential	7.961	7.846	6.885	8.929
Other renters' costs	2.263	1.592	(NA)	(NA)
Tenants' and household insurance	(NA)	(NA)	0.377	(NA)
Homeowners' costs	20.000	22.414	(NA)	(NA)
Owners' equivalent rent	19.616	22.241	20.199	22.171
Lodging away from home	(NA)	(NA)	2.327	(NA)
Fuel and other utilities	7.102	4.844	4.942	3.154
Fuels	3.878	2.385	4.018	2.303
Fuel oil, and other household fuel	0.425	0.023	0.261	(NA)
Fuel oil	0.293	0.002	0.185	(NA)
Other household fuel commodities	0.131	0.021	0.075	(NA)
Gas (piped) and electricity	3.453	2.362	3.757	2.258
Electricity	2.334	2.179	2.649	2.080
Utility (piped) gas	1.119	0.183	1.108	0.178
Water and sewer and trash collection	(NA)	(NA)	0.924	(NA)
Household furnishings and operation	5.908	5.871	4.831	3.998

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**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U),
FOR THE U.S. AND HONOLULU, DECEMBER 1996 AND 1997-- Con.**

Group	1996 CPI-U		1997 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
EXPENDITURE CATEGORY -- Con.				
Apparel and upkeep	5.330	4.149	(NA)	(NA)
Apparel commodities	4.786	3.824	4.944	3.834
Men's and boys' apparel	1.280	1.220	1.390	(NA)
Women's and girls' apparel	2.102	1.339	1.990	(NA)
Footwear	0.718	0.482	0.895	(NA)
Infants' and toddlers' apparel	(NA)	(NA)	0.268	(NA)
Jewelry and watches	(NA)	(NA)	0.401	(NA)
Transportation	17.141	16.529	17.578	14.414
Private transportation	15.499	14.817	16.240	12.138
Motor fuel	3.171	3.019	2.995	2.097
Gasoline (all types)	(NA)	(NA)	2.976	2.081
Public transportation	1.642	1.712	1.338	(NA)
Medical care	7.346	5.802	5.614	5.050
Entertainment	4.352	4.063	(NA)	(NA)
Recreation	(NA)	(NA)	6.145	6.204
Education and communication	(NA)	(NA)	5.528	7.282
Other goods and services	7.145	7.230	4.321	4.034
Personal care	1.445	1.285	3.427	(NA)
COMMODITY AND SERVICE GROUP				
All items	100.000	100.000	100.000	100.000
Commodities	42.873	39.832	42.635	38.637
Food and beverages	17.484	19.416	16.310	17.944
Commodities less food and beverages	25.389	20.416	26.326	20.692
Nondurables less food and beverages	15.147	13.013	14.729	12.043
Durables	10.242	7.403	11.596	8.649
Services	57.127	60.168	57.365	61.363
Medical care services	6.073	4.772	4.392	(NA)

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**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U),
FOR THE U.S. AND HONOLULU, DECEMBER 1996 AND 1997-- Con.**

Group	1996 CPI-U		1997 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
EXPENDITURE CATEGORY -- Con.				
Special indexes:				
All items less shelter	71.806	67.904	70.212	65.914
All items less medical care	92.654	94.198	94.386	94.950
All items less energy	92.951	94.596	92.987	95.600
All items less food and energy	77.038	76.542	77.661	78.834
Energy	7.049	5.404	7.013	4.400
Commodities less food	26.960	21.779	27.309	21.871
Nondurables less food	16.718	14.376	15.712	13.222
Nondurables	32.631	32.430	31.039	29.988
Services less rent of shelter	29.540	28.500	27.955	27.584
Rent of shelter	(NA)	(NA)	29.410	(NA)
Services less medical care services	51.054	55.396	52.973	57.413

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Relative Importance of Components in the Consumer Price Index, 1995*, Bulletin 2476, February 1996 (p. 17), for 1996, Ibid., Bulletin 2488, April 1997, (p. 18-19); for 1997, Ibid., Bulletin 2499, April 1998 (pp. 9-19); and <ftp://146.142.4.23/pub/special.requests/cpi/usri96.txt>.

Table 14.06-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON FAMILY ON OAHU: 1971 TO 1998

[Hypothetical budgets for a family of specified characteristics, based on 1972-1973 expenditure patterns as updated by the consumer price index and current tax rates. The 1981 values are official estimates published by the U.S. Bureau of Labor Statistics; the 1982-97 are revised and 1998 are preliminary unofficial estimates prepared by the Bank of Hawaii, using comparable assumptions and methodology. Users of these estimates should bear in mind the limitations imposed by the underlying assumptions and methods]

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1985 1/	36,546	122.1
1972	13,617	119.0	1986 1/	38,367	123.6
1973	14,937	118.3	1987 1/	40,423	123.3
1974	17,019	118.8	1988 1/	43,710	127.9
1975	18,107	117.0	1989 1/	46,113	126.9
1976	19,036	117.2	1990 1/	51,094	132.8
1977	20,883	122.1	1991 1/	52,984	132.3
1978	23,099	124.0	1992 1/	55,526	136.2
1979	25,799	125.7	1993 1/	56,349	133.9
1980	28,488	123.2	1994 1/	56,994	131.1
1981	31,893	125.5	1995 1/	60,521	133.9
1982 1/	33,774	126.4	1996 1/	60,561	128.4
1983 1/	33,725	124.0	1997 1/	63,058	128.9
1984 1/	34,944	122.6	1998 2/	64,402	127.1

1/ Revised.

2/ Preliminary.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (USDL: 82-139, April 16, 1981); 1982-98 estimates by Paul H. Brewbaker, Bank of Hawaii, Economics Research Center, <<http://www.boh.com/econ/>>.

Table 14.07-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY ON OAHU AND AS PERCENT OF UNITED STATES: 1981 TO 1998

[Hypothetical budgets for a family of specified characteristics, based on 1972-1973 expenditure patterns as updated by the consumer price index and current tax rates. The 1981 values are official estimates published by the U.S. Bureau of Labor Statistics; the 1982-97 are revised and 1998 are preliminary unofficial estimates prepared by the Bank of Hawaii, using comparable assumptions and methodology. Users of these estimates should bear in mind the limitations imposed by the underlying assumptions and methods]

Item	Oahu (dollars)								
	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total budget	31,893	33,774	33,725	34,944	36,546	38,367	40,423	43,710	46,113
Consumption	21,530	22,798	23,472	24,448	25,278	26,124	27,481	29,131	31,140
Food	7,626	7,900	8,063	8,413	8,690	8,883	9,238	9,761	10,582
Food at home	6,649	6,846	6,958	7,260	7,492	7,653	7,962	8,425	9,233
Food away from home	977	1,054	1,105	1,154	1,199	1,230	1,276	1,336	1,349
Housing	6,493	6,905	7,026	7,346	7,622	7,945	8,476	9,140	9,842
Owner shelter costs	5,467	5,813	5,895	6,205	6,469	6,780	7,319	7,998	8,655
Renter shelter costs	3,991	4,243	4,305	4,586	4,821	5,077	5,337	5,613	6,012
Household operation	1,395	1,485	1,529	1,545	1,565	1,591	1,653	1,738	1,848
Transportation	2,421	2,504	2,484	2,603	2,654	2,661	2,775	2,937	3,134
Clothing	1,432	1,491	1,537	1,518	1,509	1,512	1,553	1,618	1,581
Personal care	590	662	682	679	700	724	759	781	823
Medical care	1,590	1,780	1,965	2,086	2,200	2,377	2,486	2,575	2,708
Other 1/	1,378	1,556	1,714	1,802	1,902	2,022	2,193	2,318	2,470
Other items 2/	1,137	1,205	1,231	1,283	1,324	1,356	1,425	1,509	1,596
Social Security payments	2,049	2,217	2,216	2,540	2,808	3,037	3,239	3,507	3,831
Personal income taxes	7,177	6,818	6,675	6,968	7,562	7,894	8,848	9,174	10,262

Item	Oahu (dollars)								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total budget	51,094	52,984	55,526	56,349	56,994	60,521	60,561	63,058	64,402
Consumption	33,767	36,165	37,801	38,974	39,129	40,832	41,016	41,369	41,807
Food	11,594	12,203	12,404	12,660	12,676	13,028	12,660	12,883	13,109
Food at home	10,181	10,728	10,883	11,093	11,051	11,381	10,995	11,199	11,416
Food away from home	1,413	1,475	1,521	1,567	1,625	1,647	1,665	1,685	1,692
Housing	10,605	11,485	12,159	12,452	12,022	13,054	13,185	13,098	12,940
Owner shelter costs	9,416	10,266	10,887	11,069	10,682	11,590	11,678	11,596	11,620
Renter shelter costs	6,628	7,320	7,764	7,982	7,257	8,296	8,397	8,066	7,693
Household operation	1,885	1,956	2,052	2,155	2,196	2,287	2,327	2,384	2,302
Transportation	3,317	3,524	3,729	3,807	3,903	4,108	4,225	4,204	4,111
Clothing	1,621	1,674	1,731	1,765	1,818	1,781	1,796	1,777	1,700
Personal care	921	976	1,034	1,069	1,096	1,118	1,142	1,141	1,223
Medical care	2,997	3,330	3,549	3,837	4,022	4,078	4,179	4,224	4,395
Other 1/	2,712	2,972	3,196	3,383	3,591	3,666	3,830	4,041	4,330
Other items 2/	1,712	1,835	1,923	1,985	2,042	2,084	2,117	2,131	2,126
Social Security payments	4,094	4,228	4,367	4,478	4,837	5,280	5,516	5,800	6,100
Personal income taxes	10,355	10,850	10,798	11,166	11,742	12,136	13,268	14,241	15,285

Continued on next page.

Table 14.07-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON

FAMILY ON OAHU AND AS PERCENT OF UNITED STATES: 1981 TO 1998 --Con.

Item	Oahu as percent of urban U.S.								
	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total budget	125.5	126.4	124.0	122.6	122.1	123.6	123.3	127.9	126.9
Consumption	118.0	118.2	117.7	117.6	117.3	117.4	118.4	120.0	121.9
Food	130.5	130.3	130.9	131.6	133.4	132.3	132.0	133.9	136.7
Food at home	136.6	136.0	136.8	137.6	140.0	139.0	138.7	140.9	144.9
Food away from home	100.0	102.5	102.9	103.1	103.0	101.7	101.5	102.0	98.5
Housing	117.1	116.8	115.9	116.4	115.2	114.7	117.6	121.6	126.2
Owner shelter costs	111.9	111.4	110.2	110.8	109.6	108.8	112.3	116.9	120.8
Renter shelter costs	146.1	144.3	142.2	143.7	142.1	141.7	141.7	142.9	153.1
Household operation	116.3	117.5	118.3	117.6	116.9	117.3	119.7	123.7	128.3
Transportation	102.1	101.4	98.3	98.6	97.9	102.2	103.4	106.1	107.9
Clothing	107.4	109.0	109.6	106.3	102.7	102.0	100.3	100.2	95.2
Personal care	116.1	121.8	119.4	114.3	113.4	113.8	116.1	115.1	115.9
Medical care	110.2	110.5	112.2	112.2	111.4	111.9	109.8	106.7	104.2
Other 1/	115.2	118.0	117.2	115.4	114.8	115.0	117.9	116.9	115.5
Other items 2/	111.4	111.2	110.1	110.0	109.6	110.2	111.7	113.6	114.6
Social Security payments	120.3	120.2	120.2	122.3	123.7	124.7	125.5	126.4	127.4
Personal income taxes	161.5	151.7	155.5	156.3	154.1	154.0	154.8	157.8	160.6

Item	Oahu as percent of urban U.S.								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total budget	132.8	132.3	136.2	133.9	131.1	133.9	128.4	128.9	127.1
Consumption	124.8	128.3	130.1	130.0	126.9	128.5	125.3	123.2	121.9
Food	141.0	144.4	145.4	145.1	141.5	141.1	132.5	131.5	131.1
Food at home	150.0	154.0	155.1	154.4	149.5	149.1	138.9	138.1	138.1
Food away from home	98.5	99.5	100.6	101.8	103.8	102.8	101.4	99.8	97.7
Housing	129.9	135.8	139.6	139.0	130.5	137.8	135.1	130.5	125.7
Owner shelter costs	124.8	130.9	134.3	132.4	123.7	129.8	126.8	122.1	118.5
Renter shelter costs	162.1	174.0	180.3	181.3	160.8	179.4	176.7	164.6	152.1
Household operation	127.4	128.5	132.2	136.0	136.8	140.8	140.0	141.1	137.2
Transportation	108.1	111.8	115.8	114.7	114.1	116.0	116.0	114.4	114.0
Clothing	93.4	93.0	93.7	94.3	97.4	96.4	97.4	95.6	91.3
Personal care	124.3	127.4	131.6	133.0	133.5	133.8	134.0	131.5	137.3
Medical care	105.7	108.0	107.2	109.4	109.5	106.2	105.2	103.4	104.3
Other 1/	117.8	119.6	120.4	121.1	125.0	122.4	122.8	124.2	125.8
Other items 2/	116.6	120.0	122.0	122.3	122.7	121.8	120.1	118.2	116.1
Social Security payments	128.1	128.4	128.7	128.9	129.6	130.3	130.7	131.1	131.4
Personal income taxes	154.1	162.7	159.7	156.0	155.8	150.0	150.1	148.2	146.4

1/ Family consumption including reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous.

2/ Includes gifts and contributions, life insurance, and occupational expenses.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (USDL: 82-139, April 16, 1981); 1982-98 estimates by Paul H. Brewbaker, Bank of Hawaii, Economics Research Center, <<http://www.boh.com/econ/>>.

**Table 14.08-- GOODS AND SERVICES INDEXES FOR SELECTED
METROPOLITAN AREAS: 1998**

[Standard City, an average cost hypothetical location=100. Based on a survey of 150 items.
Data include 10 categories: food-at-home, food-away-from-home, tobacco, alcohol, household furnishings and operations, clothing, domestic service, medical care, personal care, and recreation. Data exclude housing, transportation, and personal income taxes]

Expensive Locations	Index	Inexpensive Locations	Index
New York, NY (Manhattan only)	131.9	Billings, MT	91.0
Honolulu, HI	116.2	Janesville, WI	91.6
Washington, D.C.	112.5	Fayetteville, NC	92.1
San Francisco, CA	110.0	Manchester, NH	92.9
San Jose, CA	109.8	Greenwood, SC	93.1
Chicago, IL	109.3	Amarillo, TX	93.8
Boston, MA	109.1	Eugene, OR	93.8
Philadelphia, PA	108.0	Erie, PA	94.0
Los Angeles, CA	107.5	Martinsville, VA	94.1
Buffalo, NY	107.5	Hobbs, NM	94.1

Source: Runzheimer International, <<http://www.runzheimer.com/corpc/news/scripts/101298.asp>>
posted on October 12, 1998.

**Table 14.09-- AVERAGE APARTMENT RENTAL COSTS PER YEAR
IN SELECTED CITIES IN THE UNITED STATES: 1999**

[Standard City, an average cost hypothetical location of \$6,480 and 100.0. The annual values shown are based on a three-room, one-bedroom, one-bath apartment rental unit. Rental units are typically located in suburban communities surrounding the city and are based on an analysis of approximately 300 cities.

Location	Annual rent	Index	Location	Annual rent	Index
San Francisco, CA	13,100	202.2	Baltimore, MD	7,350	113.4
Honolulu, HI	12,100	187.0	Denver, CO	6,900	107.9
Boston, MA	10,900	168.2	Tampa, FL	6,420	99.1
New York City, NY	10,580	163.3	Greenville, NC	6,300	97.2
Washington, D.C.	10,320	159.3	Baton Rouge, LA	5,940	91.7
Chicago, IL	8,520	131.5	Tucson, AZ	5,580	86.1
Los Angeles, CA	8,460	130.6	Dubuque, IA	4,860	75.0

Source: Runzheimer International, <<http://www.runzheimer.com/corpc/news/scripts/062199.asp>> dated June 21, 1999.

Table 14.10-- FAST FOOD PRICES AND INDEXES FOR SELECTED METROPOLITAN AREAS: 1998-99

[Prices are in U.S. dollars. New York, NY is 100.0. Based on a national and international surveys of prices of a 1/4 pound cheesburger, large fries, and medium soft drink. Sales taxes are not included for U.S. locations but are included for international locations. International prices are based on March 1999 foreign exchange rates]

U.S. Locations	Price	Index	International Locations	Price	Index
New York, NY	5.68	100.0	Copenhagen, Denmark	8.81	155.1
Honolulu, HI	5.16	90.8	Geneva, Switzerland	8.53	150.2
Washington, D.C.	4.97	87.5	Jerusalem, Israel	8.40	147.9
San Francisco, CA	4.83	85.0	Brussels, Belgium	6.49	114.3
Boston, MA	4.82	84.9	London, England	6.29	110.7
Seattle, WA	4.82	84.9	Tokyo, Japan	6.00	105.6
Phoenix, AZ	4.71	82.9	Amsterdam, Netherlands	5.88	103.5
St. Louis, MO	4.49	79.0	Frankfurt, Germany	5.87	103.3
Atlanta, GA	4.48	78.9	Lagos, Nigeria	5.70	100.4
Boise, ID	4.44	78.2	New York, NY, USA	5.68	100.0
Los Angeles, CA	4.37	76.9	Rome, Italy	5.50	96.8
Chicago, IL	4.36	76.8	Madrid, Spain	5.18	91.2
Miami, FL	4.30	75.7	Paris, France	5.00	88.0
Denver, CO	4.28	75.4	Athens, Greece	4.80	84.5
Dallas, TX	4.27	75.2	Toronto, Canada	4.42	77.8
Memphis, TN	4.20	73.9	Mexico City, Mexico	4.29	75.5
			Sydney, Australia	4.13	72.7
			Rio de Janeiro, Brazil	3.50	61.6
			Lisbon, Portugal	3.38	59.5
			Hong Kong	2.79	49.1
			Warsaw, Poland	2.69	47.4

Source: Runzheimer International, <<http://www.runzheimer.com/corpc/news/scripts/01259.asp>> dated January 25, 1999 and <<http://www.runzheimer.com/corpc/news/scripts/061499.asp>> dated June 14, 1999.

**Table 14.11-- INDEXES OF COST OF LIVING FOR SELECTED
MAJOR CITIES WORLDWIDE: 1995 TO 1999**

[Index number Honolulu=100. March 1999 are Advance figures]

City	General index of mean prices				
	March 1995	Sept. 1995	March 1996	Sept. 1997	March 1999
Honolulu	100	100	100	100	100
Beijing/Peking	120	125	125	124	125
Chicago	106	108	(NA)	(NA)	(NA)
Hong Kong	139	144	147	150	151
Los Angeles	104	106	106	(NA)	108
Manila	78	81	83	70	61
New York	116	118	120	(NA)	119
Paris	(NA)	(NA)	(NA)	134	(NA)
San Francisco	105	106	(NA)	(NA)	(NA)
Seoul	139	144	137	125	109
Shanghai	(NA)	(NA)	125	123	122
Singapore	141	140	(NA)	133	119
Sydney	109	113	121	113	99
Taipei	142	(NA)	138	132	118
Tokyo	259	232	202	183	177
Vancouver	97	102	101	100	90
Washington, D.C.	(NA)	(NA)	104	103	104

NA Not available.

Source: Economic Intelligence Unit, *Worldwide Cost of Living Survey*, report for Hawaii State Department of Business, Economic Development & Tourism, March 1995, 1996, 1999 Advance; and September 1995 and 1997.

**Table 14.12-- COST OF LIVING FOR FOREIGNERS
IN SELECTED MAJOR CITIES WORLDWIDE: AUTUMN 1998**

[Rank of 1 indicates most expensive city. Based on a survey of 150 cities. Data include categories as housing, food, clothing, utilities, transportation, and entertainment. New York City=100.0]

Rank	Foreign City	Index	Rank	U.S. City	Index
1	Tokyo	165.5	16	New York City	100.0
2	Hong Kong	153.3	50	Chicago	85.6
3	Beijing	152.1	51	Miami	85.5
4	Osaka	144.4	52	San Francisco	85.3
5	Shanghai	140.3	54	Los Angeles	84.6
6	Moscow	128.3	55	Honolulu	84.4
7	Guangzhou	121.2	61	Houston	80.3
8	London	112.4	62	Washington D.C.	80.1
9	Shenzhen	109.1	64	Boston	79.9
10	Seoul	107.9	79	St. Louis	75.2
11	Geneva	107.5	82	Denver	74.4
12	Zurich	107.4	92	Seattle	70.7
13	Singapore	106.0	94	Atlanta	70.3
14	St. Petersburg	101.8	103	Winston Salem, NC	67.2
15	Taipei	100.1	107	Portland	66.1

Source: Mercer USA Center: Corporate Resource Group
<http://www.wmmercer.com/usa/english/resource/resource_news_topic48a>, posted March 16, 1999.

**Table 14.13-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR
FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.,
BY COUNTY: 1997 TO 1999**

Effective Date	Allowance category	Honolulu	Hawaii	Maui	Kauai
	ALLOWANCE RATES				
March 25, 1997	All employees 1/	22.5	15.0	22.5	22.5
December 2, 1997	All employees 1/	22.5	15.0	22.5	22.5
October 21, 1998	All employees 2/	25.0	15.0	22.5	22.5
	INDEXES				
March 25, 1997	Cost of Living Index 3/	121.95	4/ 111.89	121.36	4/ 121.36

1/ Interim Rule issued on March 25 and Final Rule issued on December 2, 1997.

2/ As Final Rule on October 21 and as corrected on November 13, 1998.

3/ Washington, D.C. living costs=100. Based on a survey of comparative costs for Federal employees in February 1996. The Survey was conducted and indexes calculated by Runzheimer International. The detailed methodology is described in the *Federal Register*: March 25, 1997.

4/ Correction to Table 14.10 in *Data Book 1997*.

Source: U.S. Office of Personnel Management, Federal Register Online via GPO Access <<http://www.wais.access.gpo.gov>>, Vol. 62, No. 57, March 25, 1997 (pp. 14187-14189); Vol. 62, No. 231, December 2, 1997 (pp. 63630-63631); Vol. 63, No. 203, October 21, 1998 (pp. 56430-56431); and Vol. 63, No. 219, November 13, 1998 (p. 63385).

**Table 14.14-- COST OF LIVING ALLOWANCE INDEXES FOR MILITARY IN
HAWAII RELATIVE TO CONTINENTAL UNITED STATES, BY ISLAND**

[Index number continental United States=100]

Effective Date	Locality	Locality Code 1/	Index
September 1, 1998	Hawaii, Kilauea Military Camp	HI004	128
September 1, 1998	Hawaii, Other	HI001	128
September 1, 1998	Kauai	HI003	128
September 1, 1998	Oahu	HI009	116
March 1, 1999	Maui	HI005	134
March 1, 1999	Molokai	HI007	134

1/ Assigned by the Department of Defense to identify each area entitled to COLA. Search of the website indicated below in "Source" requires the "Locality Code" be entered.

Source: U.S. Department of Defense, Per Diem, Travel and Transportation Committee, Overseas Cost-of-Living Program <<http://www.dtic.mil/perdiem/allowcol.html>> accessed July 22, 1999.