

Section 14

PRICES

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

During the first six months of 1991, the Honolulu all-items consumer price index for all urban consumers (CPI-U) averaged 146.8, with the 1982-1984 level equal to 100. The index had increased 8.3 percent over the first half of 1990, 34.8 percent since 1986, and 60.1 percent since 1981. Prices have risen most rapidly since the 1982-84 base period for shelter (67.6 percent) and medical care (68.0 percent) and have dropped most rapidly for electricity (13.5 percent). The implicit price deflator for expenditures on gross state product (a measure of price changes used in the state product accounts) rose 54.8 percent between 1980 and 1990.

An "intermediate" budget for a four-person family living on Oahu was unofficially estimated at \$52,139 as of 1990. This family budget was 34.1 percent higher than the corresponding urban United States average. Differences were particularly marked for renter shelter costs (53.7 percent higher) and personal income taxes (75.7 percent higher).

The Honolulu consumer price index has been compiled by the U.S. Bureau of Labor Statistics 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 1982-1984, the base period. Current data for Honolulu and other cities are published in CPI Detailed Report, issued monthly by BLS.

Important technical changes have been made in the consumer price index in recent years. In 1983, the basis for measuring homeowners' costs was substantially modified. In 1987, component weights based on a 1982-1984 survey replaced the older weights derived from 1972-1973 data. At the same time, the publication of the Honolulu indexes was moved from a bimonthly to a semi-annual basis. Beginning in 1988, the base period was shifted from 1967 to 1982-1984. Both the CPI-U and CPI-W have been linked by DBED to older indexes going back to 1940.

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 Bureau of Labor Statistics for Honolulu and the Mainland were discontinued after 1981, and are now maintained unofficially by the Bank of Hawaii. A comparison of prices in Hawaii and

Washington, D.C., compiled for the U.S. Office of Personnel Management to provide a basis for cost of living adjustments for Federal employees, was most recently published for 1990. The American Chamber of Commerce Researchers Association (ACCRA) added Hilo to its list of participating cities for comparative living cost surveys the same year. All of 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 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 Statistical Abstract of the United States: 1991, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 398.-- IMPLICIT PRICE DEFLATOR FOR EXPENDITURES ON GROSS STATE PRODUCT: SELECTED YEARS, 1958 TO 1990

[1982 = 100]

Year	Deflator	Year	Deflator	Year	Deflator
1958 ...	34.1	1978 ...	77.1	1985 ...	111.7
1960 ...	34.4	1979 ...	84.0	1986 ...	114.6
1965 ...	37.7	1980 ...	89.3	1987 ...	119.8
1970 ...	47.3	1981 ...	93.3	1988 ...	124.5
1975 ...	63.9	1982 ...	100.0	1989 ...	130.8
1976 ...	67.5	1983 ...	104.2	1990 ...	138.0
1977 ...	71.0	1984 ...	108.1		

Source: Hawaii State Department of Business and Economic Development, Hawaii Gross State Product Accounts: 1958-1988 (June 1989), tables 1-A and 1-5, and Quarterly Statistical & Economic Report, 1st Quarter 1991, p. 6.

Table 399.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: ANNUAL AVERAGES, 1940 TO 1990

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

Year	CPI-U	CPI-W	Year	CPI-U	CPI-W
1940	14.7	14.5	1967	36.3	35.8
1941	15.5	15.3	1968	37.7	37.2
1942	17.6	17.4	1969	39.4	38.8
1943	18.9	18.7			
1944	19.2	19.0	1970	41.5	40.9
1945	19.7	19.5	1971	43.2	42.6
1946	21.0	20.8	1972	44.6	44.0
1947	24.4	24.1	1973	46.6	45.9
1948	25.7	25.4	1974	51.5	50.8
1949	25.2	24.9	1975	56.3	55.5
			1976	59.1	58.3
1950	24.3	24.0	1977	62.1	61.2
1951	25.7	25.4	1978	66.9	65.9
1952	26.5	26.2	1979	74.3	73.2
1953	26.7	26.4			
1954	26.9	26.6	1980	83.0	81.9
1955	27.3	27.0	1981	91.7	90.5
1956	27.7	27.4	1982	97.2	96.0
1957	28.6	28.3	1983	99.3	99.8
1958	30.0	29.6	1984	103.5	104.3
1959	30.5	30.1	1985	106.8	107.9
			1986	109.4	110.3
1960	31.3	30.9	1987	114.9	115.9
1961	32.1	31.7	1988	121.7	122.8
1962	32.8	32.4	1989	128.7	129.7
1963	33.5	33.1			
1964	33.7	33.3	1990	138.1	138.9
1965	34.4	33.9			
1966	35.3	34.8			

Source: 1964-1990 from U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and BLS tapes tabulated by Hawaii State Data Center. 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 by Hawaii State Data Center.

Table 400.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1991

[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 ...	...	146.8	...	...	147.7	...

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), BLS tapes tabulated by Hawaii State Data Center, and BLS press releases.

Table 401.-- PERCENT CHANGE IN SELECTED PRICE INDEXES: 1980 TO 1990

Index <u>1/</u>	1980 to 1990	1980 to 1985	1985 to 1990	1986 to 1987	1987 to 1988	1988 to 1989	1989 to 1990
Hawaii GSP deflator	54.5	25.1	23.5	4.5	3.9	5.1	5.5
Honolulu CPI-U	66.4	28.7	29.3	5.0	5.9	5.8	7.3
Honolulu CPI-W	69.6	31.7	28.7	5.1	6.0	5.6	7.1
U.S. CPI-U	58.6	30.6	21.5	3.7	4.1	4.8	5.4

1/ GSP deflator, the implicit price deflator for expenditures on Hawaii gross state product; CPI-U, consumer price index for all urban consumers; CPI-W, consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly); present report, tables 398 and 399.

Table 402.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990

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

Group	1986	1987	1988	1989	1990
All items	109.4	114.9	121.7	128.7	138.1
Food and beverages	110.0	114.1	120.3	128.1	137.8
Food	109.9	114.3	120.2	128.2	138.3
Food at home	109.0	113.4	120.0	131.5	145.0
Cereals and bakery products	112.8	117.2	127.0	139.3	151.7
Meats, poultry, fish, and eggs ...	104.3	108.5	119.1	133.1	147.2
Meats, poultry, and fish	104.3	107.9	119.1	133.9	148.0
Dairy products	105.0	105.9	106.5	115.5	121.9
Fruits and vegetables	112.3	116.5	122.3	142.2	167.4
Other foods at home	113.2	119.4	122.2	123.0	128.8
Food away from home	111.4	115.6	121.0	122.2	128.0
Alcoholic beverages	111.1	111.4	121.0	126.5	131.0
Housing	108.4	115.0	123.0	131.1	141.5
Shelter	113.9	122.1	132.1	141.1	154.5
Renters' costs <u>1/</u>	121.1	127.3	133.9	143.4	158.1
Rent, residential	116.9	122.3	129.4	139.3	152.2
Other renters' costs	122.5	129.7	131.7	136.3	158.6
Homeowners' costs <u>1/</u>	115.7	124.9	136.5	147.7	160.7
Owners' equivalent rent <u>1/</u>	115.8	125.0	136.8	148.1	161.4
Fuel and other utilities	87.6	88.8	87.3	90.9	98.0
Fuels	75.2	77.8	72.6	75.7	84.1
Gas (piped) and electricity	74.9	77.4	72.1	75.1	83.6
Electricity	73.3	76.0	70.4	73.7	82.3
Utility (piped) gas	88.2	87.6	86.5	85.9	91.4
Household furnishings and operation ..	104.7	108.8	117.3	125.8	126.8
Apparel and upkeep	99.8	102.5	106.8	104.3	107.0
Apparel commodities	98.5	101.2	105.4	102.4	104.3
Men's and boys' apparel	106.8	114.7	121.2	123.8	118.6
Women's and girls' apparel	102.0	100.3	105.3	97.1	99.4
Footwear	100.8	100.4	101.2	93.0	98.2
Transportation	105.2	109.7	116.1	123.9	131.1
Private transportation	105.4	109.7	116.4	124.3	130.8
Motor fuel	88.5	90.9	95.4	101.1	108.6
Gasoline	88.5	91.0	95.3	100.7	109.1
Public transportation	103.8	109.1	112.9	119.4	132.7
Medical care	122.3	127.9	132.5	139.3	154.2
Entertainment	113.2	118.6	122.9	124.3	128.4
Other goods and services	119.6	129.7	137.1	146.1	160.4
Personal care	107.3	112.6	115.8	122.1	136.6

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Table 402.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990 -- Con.

Group	1986	1987	1988	1989	1990
All items	109.4	114.9	121.7	128.7	138.1
Commodities	106.2	109.6	115.5	121.6	128.1
Food and beverages	110.0	114.1	120.3	128.1	137.8
Commodities less food and beverages ..	103.1	106.0	111.8	116.4	120.2
Nondurables less food and beverages	102.5	105.5	110.1	113.8	120.8
Durables	104.5	107.2	114.9	121.0	119.7
Services	112.3	119.8	127.4	135.2	147.2
Medical care services	122.1	128.1	132.4	139.2	155.3
Special indexes:					
All items less shelter	107.7	112.2	117.7	124.0	131.7
All items less medical care	108.6	114.1	121.0	128.0	137.1
All items less energy	112.0	118.1	125.5	132.7	142.3
Energy	82.3	84.8	84.7	89.2	97.1
Commodities less food	103.5	106.2	112.1	116.8	120.7
Nondurables less food	103.0	105.8	110.7	114.6	121.3
Nondurables	106.6	110.2	115.7	121.7	130.3
Services less rent of shelter ^{1/}	112.6	119.0	123.8	130.2	140.5
Services less medical care	111.2	118.8	126.6	134.5	146.1

^{1/} December 1982=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), printouts, and tapes tabulated by Hawaii State Data Center.

Table 403.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990

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

Group	1986	1987	1988	1989	1990
All items	110.3	115.9	122.8	129.7	138.9
Food and beverages	110.8	115.3	121.7	129.2	138.6
Food	110.8	115.6	121.7	129.3	139.1
Food at home	110.1	114.9	121.9	133.1	146.2
Cereals and bakery products	111.7	115.7	125.4	137.7	149.9
Meats, poultry, fish, and eggs ...	107.6	112.9	124.3	138.4	153.2
Meats, poultry, and fish	107.8	112.4	124.6	139.5	154.5
Dairy products	104.9	105.5	106.5	114.6	120.5
Fruits and vegetables	112.3	117.9	123.0	140.8	162.9
Other foods at home	113.3	119.0	122.0	123.2	129.0
Food away from home	111.8	116.1	121.4	122.6	128.5
Alcoholic beverages	111.3	111.1	121.4	126.6	131.5
Housing	111.0	117.4	125.5	133.7	144.3
Shelter	117.7	126.0	136.3	145.6	159.4
Renters' costs <u>1/</u>	108.2	113.2	119.3	127.9	140.6
Rent, residential	116.9	122.3	129.4	139.3	152.2
Other renters' costs	122.8	128.8	130.7	135.2	157.2
Homeowners' costs <u>1/</u>	108.4	116.9	127.9	138.3	150.6
Owners' equivalent rent <u>1/</u>	108.4	117.0	128.1	138.7	151.1
Fuel and other utilities	87.6	88.7	87.4	91.1	98.1
Fuels	75.3	77.7	72.7	75.6	84.0
Gas (piped) and electricity	75.1	77.5	72.4	75.2	83.6
Electricity	73.3	76.0	70.4	73.7	82.3
Utility (piped) gas	88.3	87.6	86.5	85.9	91.4
Household furnishings and operation ..	105.6	109.7	118.7	126.5	127.5
Apparel and upkeep	100.1	103.7	108.2	105.2	108.1
Apparel commodities	98.7	102.3	106.9	103.5	105.5
Men's and boys' apparel	107.6	116.6	123.5	126.1	121.1
Women's and girls' apparel	103.1	101.8	107.1	98.0	100.9
Footwear	100.8	100.4	101.4	93.5	98.5
Transportation	104.7	109.2	115.7	123.7	130.2
Private transportation	104.8	108.8	115.5	123.8	129.8
Motor fuel	88.5	90.9	95.4	101.1	108.6
Gasoline	88.5	91.0	95.3	100.7	109.1
Public transportation	103.6	110.2	113.6	119.3	131.0
Medical care	121.1	126.7	131.4	138.3	153.3
Entertainment	113.1	119.3	123.6	123.5	127.9
Other goods and services	119.1	128.7	136.4	146.3	161.9
Personal care	107.5	112.7	115.7	121.9	136.3

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Table 403.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990 -- Con.

Group	1986	1987	1988	1989	1990
All items	110.3	115.9	122.8	129.7	138.9
Commodities	107.0	110.7	116.8	122.8	129.2
Food and beverages	110.8	115.3	121.7	129.2	138.6
Commodities less food and beverages ..	104.5	107.4	113.3	118.1	122.2
Nondurables less food and beverages	102.2	105.4	110.1	113.8	121.2
Durables	107.4	110.0	117.8	124.3	123.2
Services	114.3	121.9	129.5	137.5	149.6
Medical care services	120.7	126.9	131.3	138.2	154.6
Special indexes:					
All items less shelter	107.8	112.4	118.2	124.2	131.9
All items less medical care	109.6	115.2	122.2	129.1	138.1
All items less energy	113.3	119.3	126.9	134.0	143.5
Energy	83.0	85.4	85.7	90.3	98.1
Commodities less food	104.7	107.5	113.6	118.4	122.6
Nondurables less food	102.8	105.7	110.8	114.7	121.8
Nondurables	107.1	111.0	116.7	122.5	131.0
Services less rent of shelter ^{1/}	104.1	110.5	115.0	121.0	130.5
Services less medical care	113.5	121.2	129.1	137.1	148.9

^{1/} December 1984=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), printouts, and tapes tabulated by Hawaii State Data Center.

Table 404.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER
PRICE INDEX FOR HONOLULU: DECEMBER 1990

[Percent of all items]

Group	CPI-U <u>1/</u>	CPI-W <u>2/</u>
EXPENDITURE CATEGORY		
All items	100.000	100.000
Food and beverages	20.378	21.555
Food	19.015	19.931
Food at home	12.643	12.833
Cereals and bakery products	1.728	1.981
Meats, poultry, fish, and eggs	4.432	4.773
Meats, poultry, and fish	4.189	4.466
Dairy products .....	.955	.904
Fruits and vegetables	2.882	2.683
Other foods at home	2.646	2.493
Food away from home	6.372	7.098
Alcoholic beverages	1.362	1.624
Housing	42.219	39.390
Shelter	31.612	29.134
Renters' costs	9.246	9.314
Rent, residential	7.852	8.358
Other renters' costs	1.393	.956
Homeowners' costs	22.183	19.654
Owners' equivalent rent	21.985	19.514
Fuel and other utilities	4.542	4.847
Fuels	2.375	2.507
Fuel oil, coal, and bottled gas .....	.022	.028
Fuel oil .....	.001	.005
Other fuels .....	.021	.023
Gas (piped) and electricity	2.353	2.479
Electricity	2.151	2.188
Utility (piped) gas .....	.202	.292
Household furnishings and operations	6.065	5.409
Apparel and upkeep	4.837	5.102
Apparel commodities	4.499	4.749
Men's and boys'	1.188	1.318
Women's and girls'	1.956	2.046
Footwear .....	.607	.670

Table 404.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER
PRICE INDEX FOR HONOLULU: DECEMBER 1990 -- Con.

Group	CPI-U <u>1/</u>	CPI-W <u>2/</u>
EXPENDITURE CATEGORY -- Con.		
Transportation	16.914	18.902
Private	14.860	17.364
Motor fuel	3.201	3.901
Public	2.054	1.537
Medical care	5.143	4.884
Entertainment	4.301	4.146
Other goods and services	6.209	6.021
Personal care	1.273	1.387
COMMODITY AND SERVICE GROUP		
All items	100.000	100.000
Commodities	42.487	46.106
Food and beverages	20.378	21.555
Commodities less food and beverages	22.109	24.552
Nondurables less food and beverages	13.918	15.298
Durables	8.191	9.254
Services	57.513	53.894
Medical care services	4.237	3.953
Special indexes:		
All items less shelter	68.388	70.866
All items less medical care	94.857	95.116
All items less energy	94.424	93.592
Energy	5.576	6.408
Commodities less food	23.472	26.175
Nondurables less food	15.281	16.922
Nondurables	34.296	36.853
Services less rent of shelter	26.295	25.078
Services less medical care	53.276	49.941

1/ Consumer price index for all urban consumers.

2/ Consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, printout.

Table 405.-- COST OF LIVING INDEX FOR HILO: 1990 AND 1991

[Hilo living costs as a percent of average costs in 308 participating urban areas]

Component	Weight (percent)		Index	
	2nd qtr. 1990	2nd qtr. 1991	2nd qtr. 1990	2nd qtr. 1991
Composite index	100	100	132.5	138.3
Grocery items	17	13	140.7	144.5
Housing	22	28	162.3	180.1
Utilities	11	9	102.0	116.5
Transportation	13	10	127.2	131.7
Health care	7	5	110.7	129.6
Miscellaneous goods and services	30	35	124.6	117.1

Source: American Chamber of Commerce Researchers Association (ACCRA), Cost of Living Index (quarterly), provided by Institute for Business and Economic Studies, University of Hawaii at Hilo.

Table 406.-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON FAMILY ON OAHU: 1971 TO 1990

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1981	31,893	125.5
1972	13,617	119.0	1982	33,403	124.5
1973	14,937	118.3	1983	33,890	124.3
1974	17,019	118.8	1984	35,484	124.4
1975	18,107	117.0	1985	36,926	122.7
1976	19,036	117.2	1986	38,437	123.2
1977	20,883	122.1	1987	41,790	126.7
1978	23,099	124.0	1988	44,414	129.2
1979	25,799	125.7	1989	47,950	130.7
1980	28,488	123.1	1990	52,139	134.1

Source: U.S. Bureau of Labor Statistics, annual releases for 1971-1981; 1982-1990 estimates by Paul Brewbaker, Economics Department, Bank of Hawaii.

Table 407.-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY IN THE UNITED STATES AND ON OAHU: 1981 AND 1990

[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 1990 values are 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	Urban United States (dollars)		Oahu (dollars)		Oahu as percent of urban U.S.	
	1981	1990	1981	1990	1981	1990
Total budget	25,409	38,884	31,893	52,139	125.5	134.1
Consumption	18,242	27,122	21,530	33,767	118.0	124.5
Food	5,843	8,221	7,626	11,594	130.5	141.0
Food at home	4,866	6,784	6,649	10,181	136.6	150.1
Food away from home.....	977	1,434	977	1,413	100.0	98.5
Housing	5,547	8,219	6,493	10,605	117.1	129.0
Homeowner shelter costs ..	4,886	7,548	5,467	9,416	111.9	124.7
Renter shelter costs	2,732	4,312	3,991	6,628	146.1	153.7
Housefurnishings and operations	1,199	1,480	1,395	1,885	116.3	127.4
Transportation	2,372	3,068	2,421	3,317	102.1	108.1
Clothing	1,333	1,737	1,432	1,621	107.4	93.3
Personal care	508	741	590	921	116.1	124.3
Medical care	1,443	2,834	1,590	2,997	110.2	105.8
Other family consumption <u>1/</u>	1,196	2,302	1,378	2,712	115.2	117.8
Other items <u>2/</u>	1,021	1,468	1,137	1,714	113.6	116.8
Social Security payments	1,703	3,186	2,049	4,165	120.3	130.7
Personal income taxes	4,443	7,109	7,177	12,493	161.5	175.7

1/ Reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

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 (release USDL: 82-139, April 16, 1981); 1990 estimates by Paul H. Brewbaker, Economics Department, Bank of Hawaii, in "Hawaii's Cost of Living in 1990: Urban Four-Person Family Budgets at an Intermediate Standard of Living" (1991).

Table 408.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTIES: 1990

Allowance category <u>1/</u>	City and Co. of Honolulu	Kauai County	Maui County	Hawaii County
INDEXES <u>2/</u>				
"Part 1" methodology:				
Local pricing	120.39	116.08	119.58	104.86
Exchange and commissary ...	115.00	...	...	...
"Part 2" methodology:				
Local pricing	119.45	114.90	118.31	104.36
Exchange and commissary ...	114.34	...	...	...
ALLOWANCE RATES <u>3/</u>				
Local retail	22.5	17.5	20.0	15.0
Commissary, PX	12.5	17.5	...	...

1/ Based on access to military commissary and exchange facilities. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in June-September 1990. Indexes were calculated by two different methods.

3/ Authorized allowance rate, expressed as a percentage differential, effective February 15, 1990.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances," Federal Personnel Manual System, FPM Letter 591-51 (1990), and "Cost-of-Living Allowances and Post Differentials (Nonforeign Areas); Advance Notice of Proposed Rulemaking; Proposed Rule," Federal Register, Vol. 56, No. 38, Part II, February 26, 1991, pp. 7902-7986, at pp. 7902-7903.

Table 409.-- COST OF FOOD AT HOME IN HONOLULU RELATIVE
TO U.S. CITY AVERAGE: 1973 TO 1989

Index name and year	Honolulu index <u>1/</u>	Honolulu rank <u>2/</u>
Sherwood, 1973	116.1	2
Updated Sherwood, 1988	141.3	1
Interarea price index, 1988-1989	139.0	1

1/ 25-city average = 100.

2/ Among 25 major cities.

Source: U.S. Bureau of Labor Statistics, "New research on interarea consumer price differences," Monthly Labor Review, July 1991, pp. 31-34.

Table 410.-- EXPENDITURES ON A CHILD FROM BIRTH TO AGE 18: 1990

[In dollars. Data pertain to husband-wife families living in urban areas in the Western States]

Family income level	Income range	Expenditures on a child	
		18-year total	Annual average
Lower income level	<29,900	91,590	5,088
Middle income level	29,900-48,300	124,530	6,918
Higher income level	>48,300	171,180	9,510

Source: U.S. Department of Agriculture, Family Economics Review, Vol. 4, No. 1, March 1991; pp. 32-34.