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## Section 14

# PRICES

This section presents indexes of consumer prices for Honolulu and for the United States, the implicit price deflator for gross domestic product, and comparisons of Honolulu living costs with those in other U.S. 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.

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. The unofficial estimates by the Bank of Hawaii were available for 1982-1998 but have seemingly also been discontinued. 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 is also included. These studies are subject to technical limitations and must be interpreted with considerable caution. Comparative indexes have been compiled by the U.S. Department of Defense for military personnel assigned to or in Hawaii on temporary duty.

No composite wholesale or producer price index is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaii 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. Periodic comparisons of individual or groups of products and services are sometimes compiled.

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: 2012*, Section 14. Long-term trends for Hawaii are traced in *Historical Statistics of Hawaii*, Section 5.

**Table 14.01-- IMPLICIT PRICE DEFLATOR FOR GROSS DOMESTIC PRODUCT FOR HAWAII AND UNITED STATES: 1987 TO 2017**

[Implicit price deflator is the ratio of current-dollar value of gross domestic product (GDP), to its corresponding chained-dollar value, multiplied by 100 and is shown at the 3-decimal level. Current dollar GDP is available for 1963 through 2017 (see Table 13.03) but Real (Chained- 2009 dollar) GDP is not available before 1987]

Year	Hawaii	United States	Year	Hawaii	United States
SIC 1997 = 100.000 1/			NAICS 2009 = 100.000 1/		
1987	74.972	76.506	1997	70.903	76.830
1988	77.483	78.970	1998	72.666	77.809
1989	80.307	82.050	1999	74.678	79.032
1990	83.046	85.140	2000	77.215	81.003
1991	86.420	88.154	2001	80.287	82.889
1992	88.478	90.322	2002	82.339	84.170
1993	91.482	92.824	2003	84.571	86.042
1994	93.343	94.848	2004	87.256	88.634
1995	95.477	96.820	2005	90.357	91.635
1996	97.427	98.453	2006	93.577	94.435
1997	100.000	100.000	2007	96.721	97.248
			2008	98.481	99.377
			2009	100.000	100.000
			2010	101.220	101.583
			2011	103.010	103.858
			2012	105.252	106.049
			2013	107.110	108.006
			2014 2/	109.571	110.147
			2015 2/	112.475	111.510
			2016 2/	114.363	112.977
			2017	116.778	115.201

1/ There is a discontinuity in the GDP time series at 1997, occurring at the change from Standard Industrial Classification (SIC) industry definitions to North American Industry Classification System (NAICS) industry definitions. This discontinuity results from many sources, including differences in source data and different estimation methodologies. This data discontinuity may affect both the levels and the growth rates of the GDP estimates. Users of the GDP estimates are strongly cautioned against joining the two data series in an attempt to construct a single time series of GDP estimates for 1963 to 2016.

2/ 2014 to 2016 were revised from previous *Data Book*.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product by Industry (May 4, 2018) <[http://www.bea.gov/iTable/index\\_regional.cfm](http://www.bea.gov/iTable/index_regional.cfm)> accessed July 17, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 14.02-- REGIONAL PRICE PARITIES (RPPs), ALL ITEMS, BY STATE,  
AND FOR HAWAII, BY COMPONENT: 2009 TO 2016**

[RPPs measure differences in price levels of goods and services across states for a given year and are expressed as percentage of the national price level set to 100.0. 2014 and 2015 revised from previous *Data Book*]

State	2009	2010	2011	2012	2013	2014	2015	2016
Hawaii								
All items	117.1	117.2	116.9	117.8	118.3	118.4	118.9	118.4
Goods	106.8	107.1	108.5	109.3	109.3	109.5	109.6	110.5
Services: rents	164.6	159.2	157.3	159.1	159.3	159.0	163.4	157.4
Services: other	106.6	104.2	103.0	103.7	104.7	104.5	104.2	103.5
Alabama	87.5	87.9	87.7	88.1	87.8	87.1	86.7	86.6
Alaska	106.9	105.5	105.1	105.4	104.9	106.3	105.6	105.4
Arizona	100.1	98.6	97.9	97.1	96.5	96.0	96.0	95.9
Arkansas	86.6	87.7	87.6	87.8	87.8	86.9	87.3	86.9
California	112.9	113.6	113.4	112.9	113.1	113.7	113.6	114.4
Colorado	101.1	100.9	101.4	101.1	102.1	102.0	102.6	103.0
Connecticut	110.4	109.4	109.0	109.2	108.5	108.6	108.7	108.7
Delaware	103.2	102.8	101.8	101.2	100.6	101.1	100.1	100.2
Dist. of Columbia	116.4	118.2	117.8	117.7	117.0	118.2	117.3	115.9
Florida	100.0	99.1	99.2	99.1	99.2	99.4	99.5	99.7
Georgia	93.1	92.3	91.9	92.2	92.3	92.0	92.6	92.1
<b>Hawaii</b>	<b>117.1</b>	<b>117.2</b>	<b>116.9</b>	<b>117.8</b>	<b>118.3</b>	<b>118.4</b>	<b>118.9</b>	<b>118.4</b>
Idaho	94.8	93.5	93.3	93.4	93.2	93.6	93.4	93.0
Illinois	100.9	100.9	101.1	100.7	99.7	99.3	99.2	98.9
Indiana	91.4	91.4	91.7	91.4	91.3	90.8	90.6	90.3
Iowa	89.0	89.2	90.0	90.2	90.6	90.3	90.4	90.2
Kansas	89.6	89.9	90.7	90.6	91.3	90.9	90.6	90.5
Kentucky	88.7	88.6	88.6	88.8	89.3	88.3	88.5	87.8
Louisiana	91.4	91.2	91.0	91.4	91.2	90.9	90.5	90.4
Maine	98.1	96.8	97.4	98.4	98.5	98.0	98.6	98.4
Maryland	111.3	111.0	110.9	110.1	109.9	110.2	109.7	109.5
Massachusetts	108.0	108.0	107.8	106.6	106.7	107.3	107.3	107.8
Michigan	95.2	94.7	94.6	94.5	94.3	93.6	93.3	93.3
Minnesota	97.7	97.1	97.2	97.6	97.5	97.5	97.4	97.5
Mississippi	85.8	86.7	86.8	86.5	87.2	86.2	86.1	86.4
Missouri	87.9	88.3	89.1	89.3	89.9	89.8	89.6	89.5
Montana	94.5	93.9	93.8	93.5	94.6	94.7	95.1	94.1

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**Table 14.02-- REGIONAL PRICE PARITIES (RPPs), ALL ITEMS, BY STATE,  
AND FOR HAWAII, BY COMPONENT: 2009 TO 2016 -- Con.**

<b>State</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
Nebraska	89.6	90.3	90.3	90.6	90.7	90.5	90.6	90.5
Nevada	100.7	99.9	99.8	98.7	98.7	97.5	97.5	97.4
New Hampshire	106.4	106.5	105.3	105.6	105.4	105.7	105.5	105.9
New Jersey	113.3	114.1	114.6	114.4	113.4	113.8	113.2	113.2
New Mexico	94.4	94.6	95.3	95.0	95.3	94.7	94.1	93.6
New York	115.3	115.2	115.2	115.3	115.2	115.7	115.3	115.6
North Carolina	92.1	91.3	91.5	91.7	91.8	91.4	91.1	90.9
North Dakota	89.0	89.2	89.7	91.0	91.7	91.6	92.4	91.5
Ohio	89.3	89.8	89.7	89.4	89.5	89.4	89.4	89.3
Oklahoma	89.5	89.6	89.6	89.9	90.0	89.5	89.7	89.0
Oregon	98.9	98.5	98.5	98.7	98.9	98.8	98.9	99.8
Pennsylvania	98.2	98.5	98.4	98.4	98.6	98.1	98.1	98.4
Rhode Island	100.0	99.1	99.4	98.8	98.8	99.8	99.5	99.6
South Carolina	91.5	90.4	90.8	90.8	90.5	90.0	90.2	90.3
South Dakota	85.8	86.9	87.3	88.9	88.0	88.0	88.3	88.3
Tennessee	90.5	90.2	90.3	90.8	90.7	89.8	89.8	90.2
Texas	96.4	96.3	96.2	96.2	96.3	96.5	96.8	96.9
Utah	97.8	96.9	97.2	97.1	97.7	96.8	96.7	97.3
Vermont	100.6	99.5	99.9	100.8	100.9	102.5	102.3	101.6
Virginia	103.5	103.1	103.0	103.0	102.8	102.7	102.6	102.3
Washington	103.7	103.0	102.9	103.5	104.2	104.9	105.0	105.5
West Virginia	87.5	88.4	88.5	88.6	88.6	88.2	88.7	87.6
Wisconsin	92.9	92.8	93.3	93.5	93.2	93.3	93.2	92.8
Wyoming	96.1	95.9	96.7	95.8	96.0	96.8	96.4	96.7

Source: U.S. Bureau of Economic Analysis, State Real Personal Income (May 17, 2018)  
 <<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed June 27, 2018. See also  
 "Real Personal Income for States and Metropolitan Areas, 2016"  
 <<https://www.bea.gov/newsreleases/regional/rpp/2017/pdf/rpp0617.pdf>>.

**Table 14.03-- IMPLICIT REGIONAL PRICE DEFLATOR, BY STATE:  
2009 TO 2016**

[Calculated as personal income divided by real personal income. Base year is 2009.  
2014 and 2015 revised from previous *Data Book*]

State	2009	2010	2011	2012	2013	2014	2015	2016
Alabama	87.2	89.2	91.1	93.3	94.2	94.9	94.7	95.6
Alaska	106.6	107.0	109.2	111.6	112.6	115.9	115.4	116.4
Arizona	99.8	100.0	101.7	102.9	103.5	104.6	104.9	106.0
Arkansas	86.4	88.9	91.1	93.0	94.2	94.7	95.3	96.0
California	112.5	115.2	117.8	119.6	121.4	123.9	124.2	126.4
Colorado	100.8	102.4	105.4	107.1	109.6	111.1	112.2	113.7
Connecticut	110.0	111.0	113.3	115.7	116.5	118.4	118.8	120.1
Delaware	102.9	104.3	105.8	107.2	108.0	110.2	109.4	110.7
Dist. of Col.	116.1	119.9	122.4	124.7	125.6	128.9	128.2	128.0
Florida	99.7	100.5	103.1	105.0	106.5	108.3	108.7	110.2
Georgia	92.8	93.6	95.5	97.6	99.1	100.3	101.2	101.8
<b>Hawaii</b>	<b>116.7</b>	<b>118.9</b>	<b>121.5</b>	<b>124.8</b>	<b>127.0</b>	<b>129.0</b>	<b>129.9</b>	<b>130.8</b>
Idaho	94.5	94.9	97.0	98.9	100.1	102.0	102.1	102.8
Illinois	100.6	102.3	105.1	106.6	107.1	108.2	108.4	109.3
Indiana	91.1	92.7	95.3	96.8	98.0	99.0	99.0	99.8
Iowa	88.8	90.5	93.5	95.5	97.2	98.5	98.8	99.6
Kansas	89.3	91.2	94.2	96.0	98.0	99.0	99.0	100.0
Kentucky	88.4	89.9	92.0	94.1	95.8	96.2	96.7	96.9
Louisiana	91.1	92.5	94.6	96.8	97.9	99.1	98.9	99.8
Maine	97.8	98.2	101.2	104.2	105.7	106.8	107.8	108.7
Maryland	111.0	112.6	115.3	116.7	117.9	120.1	119.9	120.9
Massachusetts	107.6	109.5	112.0	112.9	114.5	116.9	117.2	119.1
Michigan	94.9	96.0	98.3	100.1	101.2	102.0	101.9	103.0
Minnesota	97.4	98.5	101.0	103.4	104.7	106.3	106.4	107.7
Mississippi	85.6	87.9	90.2	91.7	93.6	93.9	94.0	95.4
Missouri	87.6	89.5	92.6	94.6	96.5	97.9	97.9	98.8
Montana	94.2	95.3	97.5	99.1	101.5	103.2	103.9	104.0
Nebraska	89.4	91.6	93.8	96.0	97.4	98.7	99.0	99.9
Nevada	100.4	101.3	103.7	104.6	105.9	106.3	106.6	107.6
New Hampshire	106.1	108.0	109.4	111.9	113.2	115.2	115.3	116.9
New Jersey	113.0	115.7	119.1	121.2	121.7	124.0	123.7	125.0
New Mexico	94.2	96.0	99.0	100.7	102.3	103.2	102.8	103.4
New York	115.0	116.9	119.7	122.2	123.6	126.1	126.0	127.7
North Carolina	91.8	92.6	95.0	97.1	98.5	99.6	99.5	100.4
North Dakota	88.8	90.5	93.2	96.4	98.5	99.8	101.0	101.1
Ohio	89.0	91.0	93.2	94.7	96.1	97.5	97.7	98.6
Oklahoma	89.2	90.9	93.1	95.2	96.6	97.6	98.0	98.3
Oregon	98.6	99.9	102.4	104.5	106.2	107.7	108.1	110.2

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**Table 14.03-- IMPLICIT REGIONAL PRICE DEFLATOR, BY STATE:  
2009 TO 2016 -- Con.**

State	2009	2010	2011	2012	2013	2014	2015	2016
Pennsylvania	97.9	99.9	102.3	104.3	105.9	107.0	107.2	108.7
Rhode Island	99.7	100.6	103.2	104.6	106.0	108.8	108.7	110.0
South Carolina	91.2	91.7	94.3	96.2	97.2	98.1	98.6	99.8
South Dakota	85.5	88.2	90.7	94.1	94.4	95.9	96.5	97.6
Tennessee	90.2	91.5	93.8	96.1	97.4	97.8	98.1	99.6
Texas	96.2	97.6	100.0	101.9	103.4	105.2	105.8	107.1
Utah	97.5	98.3	101.0	102.9	104.8	105.5	105.6	107.5
Vermont	100.3	100.9	103.8	106.8	108.3	111.7	111.8	112.3
Virginia	103.2	104.6	107.0	109.1	110.3	111.9	112.1	113.0
Washington	103.4	104.5	106.9	109.6	111.8	114.4	114.7	116.6
West Virginia	87.3	89.7	92.0	93.8	95.1	96.1	96.9	96.7
Wisconsin	92.6	94.1	96.9	99.1	100.1	101.7	101.8	102.5
Wyoming	95.8	97.3	100.5	101.4	103.1	105.5	105.4	106.9

Source: U.S. Bureau of Economic Analysis, Real State Personal Income (May 17, 2018)  
 <<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed July 17, 2018. See also  
 "Real Personal Income for States and Metropolitan Areas, 2016"  
 <<https://www.bea.gov/newsreleases/regional/rpp/2018/pdf/rpp0518.pdf>>.

**Table 14.04-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES: 1940 TO 2017**

[1982-1984 average = 100. Excludes rent before 1963. U.S. Bureau of Labor Statistics instituted a 3-decimal presentation beginning January 2007]

Year	Honolulu		United States	
	Annual average	Percent change from previous year	Annual average	Percent change from previous year
1940	14.7	(X)	14.0	0.7
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

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**Table 14.04-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES: 1940 TO 2017 -- Con.**

Year	Honolulu		United States	
	Annual average	Percent change from previous year	Annual average	Percent change from previous year
1978	66.9	7.7	65.2	7.6
1979	74.3	11.1	72.6	11.3
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
1999	173.3	1.0	166.6	2.2
2000	176.3	1.7	172.2	3.4
2001	178.4	1.2	177.1	2.8
2002	180.3	1.1	179.9	1.6
2003	184.5	2.3	184.0	2.3
2004	190.6	3.3	188.9	2.7
2005	197.8	3.8	195.3	3.4
2006	209.4	5.9	201.6	3.2
2007	219.504	4.8	207.342	2.8
2008	228.861	4.3	215.303	3.8
2009	230.048	0.5	214.537	-0.4
2010	234.869	2.1	218.056	1.6
2011	243.622	3.7	224.939	3.2
2012	249.474	2.4	229.594	2.1
2013	253.924	1.8	232.957	1.5
2014	257.589	1.4	236.736	1.6
2015	260.165	1.0	237.017	0.1
2016	265.283	2.0	240.007	1.3
2017	272.014	2.5	245.120	2.1

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**Table 14.04-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS  
(CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES:  
1940 TO 2017 -- Con.**

X Not applicable.

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. 1987-2017: U.S. Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers [CPI-U] Honolulu and the United States <<http://www.bls.gov/cpi/home.htm>> accessed January 12, 2018.

**Table 14.05-- CONSUMER PRICE INDEX- ALL ITEMS, BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUAL AND ANNUAL AVERAGE, 1984 TO 2017**

[U.S. Bureau of Labor Statistics instituted a 3-decimal presentation beginning January 2007]

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
1982-1984 = 100						
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
1999	173.3	172.7	173.8	173.4	173.0	173.9
2000	176.3	175.9	176.7	176.5	176.0	176.9
2001	178.4	178.1	178.7	179.1	178.6	179.5
2002	180.3	180.1	180.4	180.6	180.4	180.7
2003	184.5	183.2	185.7	184.3	183.4	185.3
2004	190.6	189.2	191.9	190.2	188.8	191.5
2005	197.8	195.0	200.6	197.2	194.6	199.8
2006	209.4	206.4	212.3	208.5	205.6	211.4
2007	219.504	216.620	222.388	218.541	215.681	221.401
2008	228.861	227.334	230.387	228.344	226.738	229.950
2009	230.048	228.070	232.026	228.773	226.462	231.084
2010	234.869	233.822	235.916	234.020	233.089	234.951
2011	243.622	241.902	245.342	242.532	240.874	244.190
2012	249.474	248.646	250.303	248.569	248.003	249.135
2013	253.924	253.202	254.646	252.178	251.663	252.694
2014	257.589	255.989	259.190	254.757	253.417	256.098
2015	260.165	257.848	262.482	255.969	254.057	257.881
2016	265.283	264.038	266.528	260.326	258.879	261.772
2017	272.014	270.738	273.290	267.115	265.787	268.444

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**Table 14.05-- CONSUMER PRICE INDEX- ALL ITEMS, BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUAL AND ANNUAL AVERAGE, 1984 TO 2017 -- Con.**

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
Percentage change 1/						
1985	3.2	3.7	2.9	3.5	4.3	2.7
1986	2.4	2.4	2.3	2.2	2.3	2.1
1987	5.0	4.0	6.0	5.1	4.0	6.2
1988	5.9	6.0	5.9	6.0	5.9	5.9
1989	5.8	5.2	6.2	5.6	5.2	6.0
1990	7.3	7.2	7.4	7.1	7.0	7.3
1991	7.2	8.3	5.9	7.2	8.4	6.0
1992	4.8	4.8	4.9	4.7	4.7	4.7
1993	3.2	3.1	3.3	3.1	3.1	3.1
1994	2.7	3.0	2.5	2.5	2.6	2.3
1995	2.2	2.1	2.2	2.2	2.3	2.4
1996	1.5	2.2	0.9	1.5	2.2	0.9
1997	0.7	0.9	0.5	0.7	0.9	0.5
1998	-0.2	-0.1	-0.5	-0.3	-0.1	-0.6
1999	1.0	0.4	1.6	1.0	0.4	1.7
2000	1.7	1.9	1.7	1.8	1.7	1.7
2001	1.2	1.3	1.1	1.5	1.5	1.5
2002	1.1	1.1	1.0	0.8	1.0	0.7
2003	2.3	1.7	2.9	2.0	1.7	2.5
2004	3.3	3.3	3.3	3.2	2.9	3.3
2005	3.8	3.1	4.5	3.7	3.1	4.3
2006	5.9	5.8	5.8	5.7	5.7	5.8
2007	4.8	5.0	4.8	4.8	4.9	4.7
2008	4.3	4.9	3.6	4.5	5.1	3.9
2009	0.5	0.3	0.7	0.2	-0.1	0.5
2010	2.1	2.5	1.7	2.3	2.9	1.7
2011	3.7	3.5	4.0	3.6	3.3	3.9
2012	2.4	2.8	2.0	2.5	3.0	2.0
2013	1.8	1.8	1.7	1.5	1.5	1.4
2014	1.4	1.1	1.8	1.0	0.7	1.3
2015	1.0	0.7	1.3	0.5	0.3	0.7
2016	2.0	2.4	1.5	1.7	1.9	1.5
2017	2.5	2.5	2.5	2.6	2.7	2.5

1/ From same period in previous year.

Source: U.S. Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers (CPI-U) and Consumer Price Index-Urban Wage Earners and Clerical Workers (CPI-W), All Items

<<http://www.bls.gov/cpi/home.htm>> and for 1990 to 2017

<[https://www.bls.gov/regions/west/data/consumerpriceindex\\_honolulu\\_table.pdf](https://www.bls.gov/regions/west/data/consumerpriceindex_honolulu_table.pdf)> accessed January 12, 2018.

**Table 14.06-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U),  
BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP,  
FOR HONOLULU: ANNUAL AVERAGE, 2013 TO 2017**

[Unless otherwise specified, 1982-1984 =100. U.S. Bureau of Labor Statistics instituted a 3-decimal presentation beginning January 2007]

Group	2013	2014	2015	2016	2017
All items	253.924	257.589	260.165	265.283	272.014
Food and beverages	250.922	256.023	267.041	272.051	277.301
Food	250.720	256.204	267.643	272.998	278.202
Food at home	254.618	260.591	267.011	267.579	273.253
Food away from home	241.201	247.703	262.972	273.003	277.624
Alcoholic beverages	251.786	250.982	255.672	254.162	260.376
Housing	269.885	273.499	276.047	283.565	294.510
Shelter	285.979	289.519	298.217	309.116	322.017
Rent of primary residence	281.572	287.813	295.635	303.583	313.704
Owners' equiv. rent of prim. res. 1/	296.499	298.747	308.127	320.863	335.159
Fuel and utilities	363.734	375.685	329.285	318.341	334.333
Household energy 2/	326.966	334.996	267.540	243.208	263.579
Energy services 3/	322.311	330.151	262.786	238.477	259.124
Electricity	318.855	327.118	260.267	236.276	256.980
Utility (piped) gas service	328.520	331.538	267.090	235.752	252.444
Household furnishings & operation	153.196	151.278	149.060	148.734	146.275
Household furn. and supplies 4/	92.365	89.619	87.882	86.918	85.087
Apparel	119.011	111.141	108.893	111.736	115.762
Transportation	233.133	236.373	216.756	211.645	217.646
Private transportation	236.516	237.308	212.590	203.453	213.267
Transp. comm. less motor fuel 4/	101.351	103.454	105.039	103.473	105.172
Motor fuel	324.575	317.398	229.138	198.214	227.755
Gasoline (all types)	333.975	326.302	235.085	203.309	233.622
Gasoline, unleaded regular 5/	355.142	346.012	247.260	212.986	244.414
Gasoline, unleaded midgrade 5/ 6/	259.349	257.427	189.913	164.233	189.983
Gasoline, unleaded premium 5/	294.709	287.258	209.894	183.356	212.037
Medical care	345.184	351.763	378.876	400.408	407.384
Education and communication 7/	139.423	143.488	147.869	149.785	144.410
Educ. and comm. commodities 4/	89.320	87.708	85.036	78.951	73.630
Educ. and comm. services 4/	113.495	117.388	121.705	124.149	119.986
Recreation 7/	116.818	119.586	121.840	124.872	125.781
Other goods and services	447.178	457.958	478.634	484.820	488.990
Other goods 4/	109.832	113.828	118.403	119.086	119.212
Other personal services 4/	111.359	112.767	118.393	120.870	123.163
Commodity and service group					
All items	253.924	257.589	260.165	265.283	272.014
Commodities	200.602	201.057	197.792	197.263	201.985
Commodities less food & bev.	167.714	165.695	154.989	151.538	155.984
Nondurables less food & bev.	213.540	210.020	189.890	185.364	193.660
Durables	117.371	116.992	116.371	114.021	114.055
Services	300.849	307.192	314.368	324.441	332.966

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**Table 14.06-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U),  
BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP,  
FOR HONOLULU: ANNUAL AVERAGE, 2013 TO 2017 -- Con.**

Group	2013	2014	2015	2016	2017
Special aggregate indexes					
All items less shelter	240.466	244.165	243.833	246.306	250.295
All items less medical care	249.131	252.635	253.811	258.001	264.714
All items less energy	251.027	255.021	262.680	269.892	275.658
Energy	323.520	324.528	245.410	217.256	242.100
All items less food and energy	252.469	256.238	263.255	271.023	276.976
Commodities less food	171.027	169.051	158.807	155.419	159.942
Nondurables less food	215.900	212.561	193.935	189.629	197.834
Nondurables	233.677	234.514	230.105	230.373	236.927
Services less rent of shelter 1/	320.021	330.028	335.192	343.671	345.072
Services less medical care services	295.971	302.124	307.041	316.432	325.378

1/ Indexes on a December 1982=100 base.

2/ Historically and as returned via the online database called 'Fuels'.

3/ Historically and as returned via the online database called 'Gas (piped) and electricity'.

4/ Indexes on a December 2009=100 base.

5/ Special index based on a substantially smaller sample.

6/ Indexes on a December 1993=100 base.

7/ Indexes on a December 1997=100 base.

Source: U.S. Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers (CPI-U) All Items  
<<http://www.bls.gov/cpi/home.htm>> accessed January 12, 2018.

**Table 14.07-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX, ALL URBAN CONSUMERS (CPI-U), FOR HONOLULU AND THE UNITED STATES: DECEMBER 2016 AND 2017**

[Percent of all items. 2016 based on the 2013-2014, 2017 based on the 2015-2016 weights in the Consumer Expenditure Survey. See also "Table 1, U.S. City Average using 2013-2014 weights"]

Group	2016 CPI-U		2017 CPI-U	
	Honolulu	U.S.	Honolulu	U.S.
Relative importance of area	0.354	100.000	0.475	100.000
EXPENDITURE CATEGORY				
All items	100.000	100.000	100.000	100.000
Food and beverages	20.371	14.649	15.696	14.359
Food	19.452	13.698	14.963	13.384
Food at home	9.620	7.899	7.672	7.382
Cereals and bakery products	(NA)	1.068	(NA)	0.964
Meats, poultry, fish, and eggs	(NA)	1.740	(NA)	1.635
Meats, poultry, and fish	(NA)	1.640	(NA)	1.538
Dairy and related products	(NA)	0.818	(NA)	0.744
Fruits and vegetables	(NA)	1.338	(NA)	1.302
Other food at home	(NA)	1.986	(NA)	1.864
Food away from home	9.832	5.799	7.290	6.002
Alcoholic beverages	0.919	0.952	0.733	0.974
Housing	43.006	42.634	47.699	41.772
Shelter	36.291	33.652	40.225	32.843
Rent of primary residence	8.261	7.875	12.758	7.823
Tenants' and household insurance	(NA)	0.343	(NA)	0.375
Owners' equivalent rent of residences	27.130	24.583	26.242	23.747
Owners' equivalent rent of primary res.	26.619	23.457	25.426	22.422
Lodging away from home	(NA)	0.851	(NA)	0.898
Fuels and utilities	3.924	4.954	4.163	4.679
Household energy	2.307	3.782	2.695	3.605
Fuel oil and other fuels	(NA)	0.190	(NA)	0.186
Fuel oil	(NA)	0.102	(NA)	0.109
Propane, kerosene, and firewood	(NA)	0.088	(NA)	0.076
Energy services 1/	2.227	3.592	2.666	3.419
Electricity	2.098	2.794	2.559	2.628
Utility (piped) gas service	0.129	0.798	0.107	0.791
Water & sewer & trash collection serv.	(NA)	1.172	(NA)	1.074
Household furnishings and operations	2.791	4.029	3.311	4.250

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**Table 14.07-- RELATIVE IMPORTANCE OF COMPONENTS IN THE  
CONSUMER PRICE INDEX, ALL URBAN CONSUMERS (CPI-U),  
FOR HONOLULU AND THE UNITED STATES:  
DECEMBER 2016 AND 2017 -- Con.**

Group	2016 CPI-U		2017 CPI-U	
	Honolulu	U.S.	Honolulu	U.S.
EXPENDITURE CATEGORY -- Con.				
Apparel	4.051	3.034	2.622	3.018
Men's and boys' apparel	(NA)	0.750	(NA)	0.737
Women's and girls' apparel	(NA)	1.228	(NA)	1.229
Footwear	(NA)	0.691	(NA)	0.671
Infants' and toddlers' apparel	(NA)	0.150	(NA)	0.134
Jewelry and watches	(NA)	0.215	(NA)	0.247
Transportation	12.379	15.318	14.001	16.537
Private transportation	10.627	14.232	12.119	15.384
Motor fuel	2.199	3.257	3.284	3.908
Gasoline (all types)	2.198	3.208	3.266	3.823
Public transportation 2/	1.752	1.086	0.000	1.153
Medical care	7.474	8.539	6.207	8.673
Medical care commodities 3/	1.774	1.852	1.367	1.748
Medical care services 3/	5.700	6.687	4.840	6.924
Recreation	4.486	5.663	4.623	5.737
Education and communication	5.214	6.984	6.908	6.707
Other goods and services	3.019	3.178	2.245	3.198
Personal care	(NA)	2.513	(NA)	2.547
COMMODITY AND SERVICE GROUP 4/				
All items	100.000	100.000	100.000	100.000
Commodities	38.403	36.246	33.820	37.327
Commodities less food and beverages	18.032	21.596	18.124	22.968
Nondurables less food and beverages	11.999	12.336	10.397	12.833
Durables	6.033	9.260	7.727	10.135
Services	61.597	63.754	66.180	62.673

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**Table 14.07-- RELATIVE IMPORTANCE OF COMPONENTS IN THE  
CONSUMER PRICE INDEX, ALL URBAN CONSUMERS (CPI-U),  
FOR HONOLULU AND THE UNITED STATES:  
DECEMBER 2016 AND 2017 -- Con.**

Group	2016 CPI-U		2017 CPI-U	
	Honolulu	U.S.	Honolulu	U.S.
SPECIAL AGGREGATE INDEXES 4/				
All items less shelter	63.709	66.348	59.775	67.157
All items less medical care	92.526	91.461	93.793	91.327
All items less energy	95.494	92.961	94.021	92.487
All items less food and energy	76.042	79.263	79.058	79.103
Energy	4.506	7.039	5.979	7.513
Commodities less food	18.951	22.548	18.857	23.942
Nondurables less food	12.918	13.288	11.130	13.808
Nondurables	32.369	26.986	26.093	27.192
Services less rent of shelter	25.514	30.445	26.128	30.205
Rent of shelter 5/	36.083	33.309	40.052	32.468
Services less medical care services	55.897	57.067	61.340	55.749

NA Not available.

1/ Until December 2010, called "Gas (piped) and electricity".

2/ For Honolulu, calculated as "Transportation" less "Private transportation".

3/ For Honolulu, "Medical care services " is calculated as "Services" less "Services less medical care services". Then "Medical care commodities" is calculated as "Medical care" less "Medical care services".

4/ The two U.S.-level categories are published in a single "Special aggregate indexes" category.

5/ For Honolulu, calculated as "Services" less "Services less rent of shelter".

Source: U.S. Bureau of Labor Statistics, "Relative Importance of Components in the Consumer Price Indexes" (annual) tables 1, 2, and 7 <<https://www.bls.gov/cpi/tables/relative-importance/home.htm>> accessed March 14, 2018.

**Table 14.08-- MEDIAN GROSS RENT AMOUNT AND AS PERCENTAGE OF HOUSEHOLD INCOME FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2016**

[Data based on sample. Rank of 1 indicates highest percentage. Areas sorted in order of highest rank in 2016]

Area	Amount (dollars)	Percentage of household income in past 12 months	
		Number	Rank
United States	981	29.9	(X)
<b>Hawaii</b>	<b>1,483</b>	<b>33.4</b>	<b>1</b>
Florida	1,086	33.3	2
California	1,375	32.8	3
Louisiana	808	32.6	4
New York	1,194	31.6	5
Puerto Rico	463	31.4	(X)
Colorado	1,171	31.2	6
New Jersey	1,244	31.0	7
Connecticut	1,115	30.7	8
Oregon	1,015	30.7	8
Vermont	925	30.4	10
Delaware	1,048	30.0	11
Nevada	1,003	29.9	12
Massachusetts	1,179	29.8	13
Michigan	818	29.7	14
Alabama	743	29.6	15
Maryland	1,314	29.6	15
Virginia	1,159	29.6	15
South Carolina	841	29.5	18
Georgia	933	29.4	19
Rhode Island	948	29.4	19
District of Columbia	1,376	29.3	21
Illinois	950	29.3	21
West Virginia	682	29.2	23
Mississippi	728	29.1	24
Arizona	976	29.0	25
Washington	1,135	29.0	25
New Mexico	804	28.9	27
Tennessee	806	28.9	27
Texas	956	28.9	27

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**Table 14.08-- MEDIAN GROSS RENT AMOUNT AND AS PERCENTAGE OF HOUSEHOLD INCOME FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2016 -- Con.**

Area	Amount (dollars)	Percentage of household income in past 12 months	
		Number	Rank
Maine	797	28.8	30
North Carolina	839	28.7	31
Pennsylvania	881	28.7	31
Indiana	768	28.4	33
Idaho	790	28.3	34
Minnesota	912	28.2	35
Kentucky	707	27.9	36
Ohio	759	27.9	36
Utah	954	27.9	36
New Hampshire	1,026	27.8	39
Arkansas	701	27.6	40
Oklahoma	744	27.5	41
Wisconsin	802	27.5	41
Iowa	741	27.4	43
Kansas	789	27.4	43
Missouri	771	27.3	45
Montana	741	27.3	45
Nebraska	769	27.2	47
Wyoming	840	26.8	48
Alaska	1,208	26.7	49
South Dakota	706	26.0	50
North Dakota	776	24.9	51

X Not applicable.

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates for the United States and all states B25064: Median Gross Rent (Dollars) Universe: Renter-occupied housing units paying cash rent <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> and B25071: Median Gross Rent as a Percentage of Household Income in the Past 12 Months (Dollars) Universe: Renter-occupied housing units paying cash rent <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 17, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 14.09-- MORTGAGE STATUS, MEDIAN SELECTED MONTHLY OWNER COSTS BY MORTGAGE STATUS AND AS A PERCENTAGE OF HOUSEHOLD INCOME, HAWAII AND THE UNITED STATES: 2015 AND 2016**

[Data based on a sample]

Category	Hawaii	United States
Specified owner-occupied		
2015	252,435	74,506,512
2016	260,626	75,022,569
Specified owner-occupied with a mortgage		
2015: Number	166,018	47,140,736
Percent	65.8	63.3
2016: Number	171,834	47,295,137
Percent	65.9	63.0
Specified owner-occupied without a mortgage		
2015: Number	86,417	27,365,776
Percent	34.2	36.7
2016: Number	88,792	27,727,432
Percent	34.1	37.0
Median selected monthly owner costs (in dollars)		
With a mortgage: 2015	2,248	1,477
2016	2,239	1,486
Without a mortgage: 2015	490	468
2016	492	466
Median selected monthly owner costs as a percentage of		
With a mortgage: 2015	25.7	22.0
2016	25.4	21.5
Without a mortgage: 2015	(1)	11.7
2016	(1)	11.4

1/ The median falls in the lowest interval of an open-ended distribution. □

Source: U.S. Census Bureau, American Community Survey 1-Year Estimates for the United States and Hawaii, Universe: Owner-occupied housing units "B25081 Mortgage Status" (annual), "B25088 Median Selected Monthly Owner Costs (Dollars) by Mortgage Status" (annual), and "B25092 Median Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months" (annual) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 17, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 14.10-- MEDIAN SELECTED MONTHLY OWNER COSTS BY MORTGAGE STATUS AND AS A PERCENTAGE OF HOUSEHOLD INCOME, FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2015 AND 2016**

[In dollars and percent. Data based on a sample]

Area	Median selected monthly owner costs				Median selected monthly owner costs as a percentage of household income			
	With a mortgage		Without a mortgage		With a mortgage		Without a mortgage	
	2015	2016	2015	2016	2015	2016	2015	2016
United States	1,477	1,486	468	466	22.0	21.5	11.7	11.4
Alabama	1,124	1,126	345	337	19.8	19.4	10.6	(1/)
Alaska	1,817	1,851	541	547	22.3	21.9	(1/)	(1/)
Arizona	1,319	1,328	385	393	21.7	21.4	(1/)	10.1
Arkansas	1,029	1,017	340	325	19.6	18.8	10.2	(1/)
California	2,123	2,188	524	546	25.9	25.4	11.0	11.0
Colorado	1,558	1,597	427	437	21.4	21.4	(1/)	(1/)
Connecticut	2,020	1,997	845	819	23.6	22.6	15.5	14.5
Delaware	1,506	1,463	453	438	22.0	21.2	10.8	(1/)
Dist. Of Col.	2,312	2,422	613	638	21.2	21.0	(1/)	(1/)
Florida	1,394	1,410	470	474	23.8	23.4	12.5	12.3
Georgia	1,299	1,336	400	398	21.1	20.3	10.8	10.5
<b>Hawaii</b>	<b>2,248</b>	<b>2,239</b>	<b>490</b>	<b>492</b>	<b>25.7</b>	<b>25.4</b>	<b>(1/)</b>	<b>(1/)</b>
Idaho	1,170	1,168	347	348	21.6	20.6	(1/)	(1/)
Illinois	1,588	1,588	589	591	22.1	21.5	13.0	12.8
Indiana	1,089	1,070	386	377	18.9	18.3	10.2	(1/)
Iowa	1,170	1,186	443	447	19.0	18.7	11.4	10.8
Kansas	1,279	1,264	467	465	19.8	19.4	11.3	11.2
Kentucky	1,089	1,111	352	346	19.7	19.2	10.6	10.3
Louisiana	1,219	1,214	323	318	19.9	19.8	(1/)	(1/)
Maine	1,340	1,328	479	454	22.4	21.7	13.2	12.8
Maryland	1,909	1,918	591	592	22.5	22.0	10.9	10.9
Massachusetts	2,048	2,069	760	736	23.4	22.5	14.3	14.0
Michigan	1,220	1,215	464	462	20.0	19.4	12.6	12.1
Minnesota	1,459	1,472	489	482	20.3	19.8	10.9	10.6
Mississippi	1,083	1,087	357	335	21.4	20.0	11.3	10.9
Missouri	1,200	1,210	418	408	19.9	19.5	11.3	11.0
Montana	1,316	1,327	391	399	22.5	22.4	10.7	10.6
Nebraska	1,269	1,290	477	487	19.7	19.2	11.4	11.3
Nevada	1,396	1,401	400	401	22.6	22.4	(1/)	(1/)

Continued on next page.

**Table 14.10-- MEDIAN SELECTED MONTHLY OWNER COSTS BY MORTGAGE STATUS AND AS A PERCENTAGE OF HOUSEHOLD INCOME, FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2015 AND 2016 -- Con.**

Area	Median selected monthly owner costs				Median selected monthly owner costs as a percentage of household income			
	With a mortgage		Without a mortgage		With a mortgage		Without a mortgage	
	2015	2016	2015	2016	2015	2016	2015	2016
New Hampshire	1,828	1,821	767	743	23.0	22.4	15.5	15.0
New Jersey	2,349	2,343	988	988	25.7	24.7	17.6	17.1
New Mexico	1,214	1,210	340	339	21.9	21.7	(1/)	(1/)
New York	2,009	2,020	719	703	24.1	23.1	14.0	13.5
North Carolina	1,234	1,225	384	376	21.0	20.2	11.4	10.5
North Dakota	1,297	1,318	431	421	18.2	18.2	(1/)	(1/)
Ohio	1,228	1,211	456	447	19.9	19.4	12.0	11.4
Oklahoma	1,159	1,168	380	370	19.9	19.6	10.2	10.0
Oregon	1,534	1,572	485	488	23.3	22.7	11.9	11.8
Pennsylvania	1,414	1,416	513	498	21.3	20.6	12.9	12.7
Rhode Island	1,730	1,740	708	687	23.5	23.3	14.6	14.4
South Carolina	1,168	1,182	361	351	20.9	20.5	10.7	10.3
South Dakota	1,225	1,239	449	453	20.0	19.4	10.3	10.5
Tennessee	1,167	1,172	365	362	20.9	20.3	10.2	10.1
Texas	1,453	1,469	480	474	21.1	20.9	11.4	11.3
Utah	1,408	1,437	391	403	21.2	21.0	(1/)	(1/)
Vermont	1,530	1,507	653	632	23.9	23.2	15.2	15.3
Virginia	1,692	1,692	457	449	22.1	21.3	10.3	(1/)
Washington	1,704	1,727	517	531	22.7	22.5	11.2	11.1
West Virginia	972	997	300	307	18.3	18.4	(1/)	(1/)
Wisconsin	1,359	1,348	530	517	21.1	20.4	12.9	12.6
Wyoming	1,364	1,367	396	393	20.1	20.5	(1/)	(1/)
Puerto Rico	864	846	149	138	27.7	26.9	(1/)	(1/)

1/ The median falls in the lowest interval of an open-ended distribution.

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates for the United States and Hawaii, Universe: Owner-occupied housing units "B25088 Median Selected Monthly Owner Costs (Dollars) by Mortgage Status" (annual), and "B25092 Median Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months" (annual)

**Table 14.11-- SINGLE-FAMILY HOME PRICE APPRECIATION FOR THE UNITED STATES, THE 50 STATES, AND THE DISTRICT OF COLUMBIA: 1991 TO 2017**

[In percent change from previous period and number. Period ending December 31 unless otherwise indicated. The House Price Index is based on transactions involving conforming, conventional mortgages purchased or securitized by Fannie Mae or Freddie Mac. The HPI is a broad measure of the movement of single-family house prices. It serves as a timely, accurate indicator of house price trends at various geographic levels. The HPI is a weighted, repeat-sales index, meaning that it measures average price changes in repeat sales or refinancings on the same properties]

State	One-year (percent)	Rank 1/	Five-year (percent)	Since 1991, 1st quarter (percent)
United States 2/	6.68	(X)	34.71	152.69
District of Columbia	14.29	1	53.32	461.62
Washington	12.04	2	56.52	244.28
Idaho	11.49	3	48.85	202.64
Nevada	11.45	4	81.84	139.02
Utah	10.74	5	46.03	286.26
Colorado	9.76	6	59.70	341.31
Tennessee	9.37	7	37.45	155.11
<b>Hawaii</b>	<b>8.70</b>	<b>8</b>	<b>38.55</b>	<b>153.81</b>
Florida	8.66	9	59.19	193.48
Michigan	8.57	10	43.97	119.25
California	8.47	11	59.04	171.93
Nebraska	8.34	12	27.34	154.15
Arizona	8.27	13	50.87	201.79
Rhode Island	8.08	14	28.97	124.24
New Hampshire	7.58	15	27.91	142.50
Texas	7.33	16	41.45	180.78
Kentucky	7.18	17	24.94	133.66
Vermont	7.05	18	16.18	134.94
Indiana	6.93	19	26.16	101.26
Georgia	6.74	20	43.67	129.01
North Carolina	6.73	21	32.78	134.36
Oregon	6.55	23	56.24	306.85
South Carolina	6.49	24	34.98	136.73
Ohio	6.32	25	27.74	94.91
Arkansas	6.28	26	19.51	117.05
Minnesota	6.15	27	32.04	175.37
Massachusetts	6.07	28	29.90	177.27
New York	5.94	29	19.61	137.41
Missouri	5.90	30	26.21	130.09
Alabama	5.63	31	20.43	115.33
Oklahoma	5.62	32	21.53	139.57

Continued on next page.

**Table 14.11-- SINGLE-FAMILY HOME PRICE APPRECIATION FOR THE UNITED STATES, THE 50 STATES, AND THE DISTRICT OF COLUMBIA: 1991 TO 2017 -- Con.**

<b>State</b>	<b>One-year (percent)</b>	<b>Rank 1/</b>	<b>Five-year (percent)</b>	<b>Since 1991, 1st quarter (percent)</b>
Wisconsin	5.59	33	25.89	148.31
Maine	5.47	34	21.74	143.18
South Dakota	5.45	35	25.71	185.77
New Mexico	5.13	36	17.83	137.47
Pennsylvania	4.94	37	18.69	119.65
Virginia	4.91	38	19.56	154.22
New Jersey	4.57	39	16.06	135.65
Iowa	4.41	40	20.77	139.08
Wyoming	4.15	41	13.62	236.13
Connecticut	3.70	42	7.91	73.77
Alaska	3.63	43	13.19	156.93
Maryland	3.54	44	18.71	147.00
Kansas	3.47	45	22.99	135.32
Illinois	3.16	46	21.81	100.70
Montana	2.95	47	25.32	278.46
Louisiana	2.69	48	20.58	177.58
Delaware	2.03	49	10.55	97.92
North Dakota	1.79	50	22.55	212.07
West Virginia	1.13	51	8.20	112.05
Mississippi	-0.57	52	11.75	97.29

X Not applicable.

1/ Rank based on one-year appreciation. The lower the rank, the higher the appreciation.

2/ United States figures based on weighted average of nine Census Divisions.

Source: Federal Housing Finance Agency (FHFA) "U.S. House Prices Rise 1.5 Percent in Fourth Quarter" pp. 16-17 (February 27, 2018) <[https://www.fhfa.gov/AboutUs/Reports/ReportDocuments/2016Q4\\_HPI.pdf](https://www.fhfa.gov/AboutUs/Reports/ReportDocuments/2016Q4_HPI.pdf)> accessed March 15, 2018.

**Table 14.12-- COST OF LIVING ANALYSES FOR HONOLULU  
AND THE UNITED STATES AVERAGE: JULY 1, 2012**

[This formulation assumed consumption patterns vary according to earnings level. It compares the 'base city' to a the 'destination' using the same pattern but at the destination's prices. This profiles a cost-of-living model rental (approximates the rental equivalent of owner-occupied housing) situations for a family of 4, annual earnings of \$76,000, a 2,000 sq. ft. home, with 3 vehicles having a total value \$30,000 and driven a total of 30,000 miles annually. The Institute model may be considered as an evolution of the U.S. Department of Labor's "Urban Family of Four" model which the Bureau of Labor Statistics discontinued in 1981]

<b>Category</b>	<b>Honolulu</b>	<b>Percent of total</b>	<b>U.S. average</b>	<b>Percent of total</b>	<b>Honolulu indexed to U.S. average</b>
Total, earnings level #1	76,000	100.0	41,014	100	185.3
Goods and services	29,388	38.7	21,283	52	138.1
Consumables	20,850	27.4	14,212	35	146.7
Transportation	6,150	8.1	5,040	12	122.0
Health services	2,388	3.1	2,031	5	117.6
Rent, utilities, insurance	46,686	61.4	21,929	53	212.9
Income and payroll taxes	17,917	23.6	15,793	39	113.4
Miscellaneous 1/	-17,991	-23.7	-17,991	-44	100.0
Exhibit: monthly rent 2/	3,442	54.3	1,551	45	221.9
Total, earnings level #2	114,519	100.0	76,000	100	150.7
Goods and services	42,682	37.3	31,044	41	137.5
Consumables	29,031	25.4	19,722	26	147.2
Transportation	10,851	9.5	8,931	12	121.5
Health services	2,800	2.4	2,391	3	117.1
Rent, utilities, insurance	46,686	40.8	21,929	29	212.9
Income and payroll taxes	17,917	15.6	15,793	21	113.4
Miscellaneous	7,234	6.3	7,234	10	100.0
Exhibit: monthly rent 2/	3,442	36.1	1,551	24	221.9

1/ 'Miscellaneous' includes charitable contributions, tuition for dependents or child care, insurance premiums, personal savings, investments, credit card debt payments, vacations, etc. A negative value suggests that the spending pattern is 'too rich' for the earnings level.

2/ Percent of total is calculated based on annual rent.

Source: ERI Economic Research Institute, Relocation Assessor, "Relocation Analysis Report" (July 11, 2012) and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 14.13-- COST OF LIVING AMONG TOP STATES FOR BUSINESS  
CATEGORY RANKINGS: 2015 TO 2018**

[The CNBC survey scored all 50 states on as many as 66 measures of competitiveness developed with input from business groups including the U.S. Chamber of Commerce and the Center for Regional Economic Competitiveness. States received points based on their rankings in each metric. The metrics are in ten broad categories, weighted according to how frequently they are cited in state economic development marketing materials. A rank of 1 indicates most favorable. Sorted by 2018 category weights]

Component	2015			2016			2017			2018		
	Category wt. 1/	Score	Rank	Category wt. 1/	Score	Rank	Category wt. 1/	Score	Rank	Category wt. 1/	Score	Rank
Overall	2,500	945	50	2,500	1,009	49	2,525	998	49	2,500	1,006	47
Workforce	400	162	46	400	165	48	450	188	48	425	148	48
Infrastructure 2/	350	94	49	350	116	46	400	152	40	400	173	40
Cost of doing business	350	45	50	350	45	50	350	49	50	350	70	49
Economy	340	123	3/ 42	340	181	25	300	135	35	300	134	33
Quality of life	325	310	1	325	295	1	300	268	1	300	264	2
Technology & innovation	250	93	3/ 36	250	90	38	225	64	45	225	63	42
Education	200	67	45	200	74	43	200	90	30	200	94	31
Business friendliness	160	35	44	160	27	46	150	29	47	150	37	43
Access to capital	50	14	37	50	14	37	100	22	41	100	22	42
Cost of living	75	2	50	75	2	50	50	1	50	50	1	50

1/ Weighting reevaluated for each study. See "America's Top States for Business: Our methodology and sources" for 2015 <<http://www.cnbc.com/id/102701598>> accessed June 26, 2015; for 2016 <<http://www.cnbc.com/2016/06/23/americas-top-states-for-business-2016-our-methodology.html>> accessed July 12, 2016; for 2017 <<http://www.cnbc.com/2017/06/12/heres-how-your-state-can-become-a-cnbc-top-state-for-business.html>> accessed June 30, 2017; and for 2018 <<https://www.cnbc.com/2018/06/13/cnbc-top-states-for-business-2018-methodology-and-sources.html>> accessed July 10, 2018.

2/ Is variously 'Infrastructure' or 'Infrastructure & transportation'.

3/ Tied with Maine.

Source: CNBC "America's Top Ten States for Business: for 2015 <<http://www.cnbc.com/id/101747925>> and "Hawaii" <<http://www.cnbc.com/id/102570702>> and "Maine" <<http://www.cnbc.com/id/102573450>> accessed June 26, 2015; for 2016 <<http://www.cnbc.com/2016/07/12/americas-top-states-for-business-2016-the-list-and-ranking.html>> and "Hawaii" <<http://www.cnbc.com/2016/07/12/top-states-for-business-49-hawaii.html>> accessed July 14, 2016; and for 2017 <<http://www.cnbc.com/2017/07/11/americas-top-states-for-business-2017-overall-ranking.html>> and "Hawaii" <<http://www.cnbc.com/2017/06/12/heres-how-your-state-can-become-a-cnbc-top-state-for-business.html>> accessed July 12, 2017; for 2018 <<<https://www.cnbc.com/2018/07/10/americas-top-states-for-business-2018.html>> and "Hawaii" <<https://www.cnbc.com/2018/07/10/top-states-for-business-hawaii.html>> accessed July 10, 2018.

**Table 14.14-- AVERAGE ANNUAL COST OF FULL-TIME CHILD CARE, BY PROVIDER, BY STATE AND THE DISTRICT OF COLUMBIA: 2016**

[Data collected during Child Care Aware of America's February 2017 survey of Child Care Resource and Referral State Networks. Some states used the latest state market rate survey]

Area	Child care center			Family child care		
	Infant	4-year-old	School-age 1/	Infant	4-year-old	School-age 1/
Alabama 2/	5,715	4,938	5,381	4,867	5,003	4,858
Alaska	11,700	10,764	6,984	10,101	9,645	5,648
Arizona	10,412	8,275	5,295	7,057	6,603	4,773
Arkansas	6,188	5,150	4,689	5,211	4,748	2,873
California	13,671	9,406	3,466	8,878	8,444	3,722
Colorado 2/	15,138	11,229	4,766	9,741	8,735	3,690
Connecticut	14,924	12,220	3,315	10,452	9,984	3,627
Delaware	10,667	8,553	3,495	7,640	6,798	2,731
District of Columbia	23,089	18,202	13,898	16,329	13,944	8,628
Florida	8,894	7,028	3,309	7,700	6,523	3,325
Georgia	7,769	6,626	2,751	6,202	5,638	2,306
<b>Hawaii</b>	<b>13,704</b>	<b>8,712</b>	<b>5,915</b>	<b>8,112</b>	<b>8,172</b>	<b>5,943</b>
Idaho	7,032	6,429	4,582	6,388	5,834	4,159
Illinois	13,413	10,013	4,714	8,366	7,781	3,874
Indiana	11,949	9,380	5,603	6,637	6,182	4,432
Iowa	9,967	8,219	3,064	7,091	6,722	2,350
Kansas	11,911	8,398	3,974	7,051	6,240	2,043
Kentucky	6,105	6,007	5,389	6,624	5,829	3,378
Louisiana	5,683	5,582	2,340	3,900	4,290	2,294
Maine	8,999	7,898	3,761	7,849	7,215	3,309
Maryland	14,726	9,744	4,153	9,967	8,084	3,703
Massachusetts	20,125	14,256	7,115	12,636	11,834	3,260
Michigan	10,281	7,280	6,084	7,179	6,760	4,992
Minnesota	15,340	11,804	(NA)	8,320	7,540	(NA)
Mississippi 2/	5,178	4,556	1,939	3,483	2,744	874
Missouri	9,412	6,604	4,095	5,564	4,836	3,030
Montana	9,096	7,994	5,952	7,440	6,888	5,520
Nebraska 2/	9,157	8,035	(NA)	7,194	6,634	(NA)
Nevada	10,317	8,786	4,703	8,572	8,013	4,569
New Hampshire	12,220	9,932	3,471	9,152	8,632	4,056
New Jersey	12,370	10,339	5,538	9,311	8,477	4,835
New Mexico	7,906	7,663	4,004	7,851	7,532	4,135
New York	15,028	12,064	12,064	10,972	10,140	7,352

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**Table 14.14-- AVERAGE ANNUAL COST OF FULL-TIME CHILD CARE,  
BY PROVIDER, BY STATE AND THE DISTRICT OF COLUMBIA:  
2016 -- Con.**

Area	Child care center			Family child care		
	Infant	4-year-old	School-age 1/	Infant	4-year-old	School-age 1/
North Carolina	9,254	7,920	3,275	7,412	6,548	2,994
North Dakota	8,539	7,715	12,064	7,132	6,842	(NA)
Ohio	9,825	7,850	3,905	7,358	6,731	3,550
Oklahoma	8,237	6,296	5,046	6,848	5,964	5,231
Oregon	12,249	9,396	5,626	8,824	7,317	6,043
Pennsylvania	12,129	9,234	5,771	8,066	7,238	5,422
Rhode Island	13,044	10,179	5,448	10,179	9,375	4,554
South Carolina	6,673	5,720	2,340	4,680	4,420	1,950
South Dakota	(NA)	6,198	4,586	(NA)	5,221	3,931
Tennessee	8,524	7,290	2,487	6,183	5,715	2,542
Texas	8,880	6,823	3,260	6,726	5,272	2,683
Utah	12,249	6,396	5,626	8,824	7,317	6,043
Vermont	11,513	10,009	4,061	8,205	7,749	3,446
Virginia	12,792	9,568	4,485	9,516	8,060	3,471
Washington	13,742	10,434	4,816	10,457	8,333	4,422
West Virginia	8,320	7,280	4,875	6,500	5,720	3,900
Wisconsin	12,083	9,835	3,986	9,525	8,501	4,790
Wyoming	10,140	8,580	6,846	7,800	7,800	7,800

NA Not available or not reported.

1/ Based on a before-/after-school for 9-month school year.

2/ State did not report costs on 2017 survey. Data from previous year adjusted for inflation.

Source: Child Care Aware of America, *Parents and the High Cost of Child Care 2017 Appendices*, Appendix I: "2015 Average Annual Cost of Full-Time Center-Based Child Care by State" (p. 4 ) and Appendix II: "2015 Average Annual Cost of Full-Time Family Child Care by State" (p. 5) <<http://usa.childcareaware.org/advocacy-public-policy/resources/research/costofcare/>> accessed January 18, 2018.

**Table 14.15-- HOUSING'S MOST EXPENSIVE 25 MARKETS AND MOST AFFORDABLE 25 MARKETS IN THE UNITED STATES: 2016**

[The Coldwell Banker "U.S. Home Listing Report" analyzes the average listing price of four-bedroom, two-bathroom properties on coldwellbanker.com listed between January 2016 and June 2016 from 51,163 listings in 2,168 markets. Markets without 10 such properties were excluded]

Rank	Most expensive		Average listing price	Rank	Most affordable		Average listing price
1	Saratoga	CA	2,453,718	1	Detroit	MI	64,110
2	Newport Beach	CA	2,130,338	2	Cleveland	OH	73,073
3	Cupertino	CA	1,812,833	3	Park Forest	IL	78,392
4	Redwood City	CA	1,807,068	4	Jamestown	NY	88,891
5	Arcadia	CA	1,748,680	5	Utica	NY	92,891
6	Carmel	CA	1,722,500	6	Wilkes-Barre	PA	94,436
7	San Francisco	CA	1,672,100	7	Scranton	PA	104,842
8	La Canada Flintridge	CA	1,571,846	8	Huntington	IN	105,614
9	Sunnyvale	CA	1,566,616	9	Augusta	GA	106,567
10	Los Gatos	CA	1,470,524	10	Palatka	FL	110,655
11	San Mateo	CA	1,425,200	11	Geneva	NY	112,600
12	Greenwich	CT	1,349,048	12	Kankakee	IL	112,958
13	Wellesley	MA	1,294,684	13	Cheektowaga	NY	113,244
<b>14</b>	<b>Honolulu</b>	<b>HI</b>	<b>1,202,219</b>	14	Albertville	AL	114,258
15	Santa Barbara	CA	1,165,727	15	Jackson	MI	114,860
16	Danville	CA	1,152,886	16	Country Club Hills	IL	116,400
17	Westport	CT	1,119,279	17	Beloit	WI	117,655
18	San Rafael	CA	1,114,714	18	Hephzibah	GA	118,460
19	Pasadena	CA	1,082,091	19	Johnstown	PA	118,589
20	Bellevue	WA	1,078,976	20	Parsons	KS	118,628
21	Calabasas	CA	1,066,783	21	Danville	IL	118,970
22	Cambridge	MA	1,057,120	22	Binghamton	NY	119,251
23	Concord	MA	1,040,290	23	Jackson	MS	119,580
24	San Jose	CA	1,011,871	24	Bluefield	WV	119,945
25	Walnut Creek	CA	1,004,900	25	Grenada	MS	120,925

Source: Coldwell Banker, "Homebuyers: Report Reveals Most Expensive and Affordable Real Estate Markets in United States" (September 8, 2016) <<https://www.coldwellbanker.com/article/report-reveals-most-expensive-and-affordable-real-estate-markets-in-us>> accessed November 1, 2016.

**Table 14.16-- AVERAGE GASOLINE PRICE FOR THE UNITED STATES AND FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JULY 18, 2018**

[Over 120,000 retail gasoline self-serve stations are surveyed and updated daily. Prices are in dollars per gallon. Rank of 1 indicates highest price per gallon. Rank is among 50 states and District of Columbia]

Item	Regular	Mid	Premium	Diesel
Hawaii	3.780	3.900	4.020	4.163
Hawaii rank	1	1	1	1
U. S. average	2.865	3.161	3.411	3.166
Hawaii as percent of U.S. average	131.9	123.4	117.9	131.5
Alabama	2.553	2.852	3.158	2.978
Alaska	3.401	3.468	3.581	3.420
Arizona	2.961	3.183	3.393	3.125
Arkansas	2.602	2.865	3.126	2.950
California	3.645	3.796	3.905	3.949
Colorado	2.832	3.096	3.369	3.157
Connecticut	3.079	3.346	3.548	3.324
Delaware	2.849	3.167	3.389	2.986
District of Columbia	3.014	3.471	3.625	3.193
Florida	2.785	3.086	3.362	3.094
Georgia	2.719	3.020	3.303	3.086
<b>Hawaii</b>	<b>3.780</b>	<b>3.900</b>	<b>4.020</b>	<b>4.163</b>
Idaho	3.130	3.279	3.454	3.487
Illinois	2.921	3.286	3.680	3.067
Indiana	2.881	3.201	3.512	3.219
Iowa	2.732	2.845	3.217	3.099
Kansas	2.665	2.878	3.104	3.014
Kentucky	2.771	3.080	3.383	3.025
Louisiana	2.600	2.856	3.117	2.929
Maine	2.853	3.126	3.346	3.198
Maryland	2.849	3.202	3.433	3.102
Massachusetts	2.901	3.142	3.311	3.179
Michigan	2.956	3.291	3.617	3.266
Minnesota	2.768	2.962	3.228	3.150
Mississippi	2.559	2.827	3.115	2.904
Missouri	2.642	2.896	3.142	2.935
Montana	2.938	3.139	3.427	3.256
Nebraska	2.748	2.831	3.152	3.086
Nevada	3.220	3.388	3.551	3.365
New Hampshire	2.808	3.085	3.300	3.109
New Jersey	2.911	3.214	3.389	3.207
New Mexico	2.810	3.054	3.277	3.133
New York	3.011	3.271	3.482	3.338

Continued on next page.

**Table 14.16-- AVERAGE GASOLINE PRICE FOR THE UNITED STATES AND FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JULY 18, 2018 -- Con.**

Item	Regular	Mid	Premium	Diesel
North Carolina	2.688	2.987	3.288	3.050
North Dakota	2.859	3.053	3.265	3.117
Ohio	2.792	3.107	3.419	3.059
Oklahoma	2.633	2.842	3.032	2.911
Oregon	3.308	3.471	3.639	3.422
Pennsylvania	3.045	3.322	3.575	3.543
Rhode Island	2.912	3.183	3.382	3.194
South Carolina	2.564	2.858	3.141	2.929
South Dakota	2.893	2.954	3.282	3.147
Tennessee	2.623	2.916	3.201	2.977
Texas	2.636	2.921	3.171	2.921
Utah	3.122	3.265	3.425	3.409
Vermont	2.913	3.143	3.377	3.216
Virginia	2.618	2.958	3.233	2.985
Washington	3.426	3.590	3.728	3.579
West Virginia	2.848	3.071	3.339	3.203
Wisconsin	2.813	3.136	3.502	3.172
Wyoming	2.964	3.151	3.377	3.417

Source: AAA's Daily Gas Prices, National Average, State Prices and Compare Prices <<http://gasprices.aaa.com/>> accessed July 19, 2018; and calculations by the Hawaii Department of Business, Economic Development & Tourism.

**Table 14.17-- CENTRAL BUSINESS DISTRICT PARKING RATES FOR HONOLULU AND THE UNITED STATES AVERAGE: 2012**

[Survey only includes covered and underground garages in prime central business districts (CBD) in 56 markets in North America, with 44 of them in the U.S. Parking rate data were collected during the month of June 2012 and includes all relevant taxes. Sources include third parties, owners/operators and Colliers International. For reserved parking, the customer is guaranteed the same space for every entry. For unreserved parking, the customer is guaranteed a space upon entry. For daily parking, the customer is permitted to park for a full day and is not impacted by "early bird" restrictions]

Category 1/	Segment	Honolulu	United States average	Honolulu as percent of United States average
Monthly unreserved	Parking rate – high	255.00	226.84	112.4
Monthly unreserved	Parking rate – low	195.00	108.06	180.5
Monthly unreserved	Parking rate – median	230.00	166.26	138.3
Monthly reserved	Parking rate – high	395.00	273.41	144.5
Monthly reserved	Parking rate – low	287.96	137.67	209.2
Monthly reserved	Parking rate – median	350.00	196.21	178.4
Daily parking	Rate – high	75.00	27.13	276.4
Daily parking	Rate – low	21.00	9.64	217.8
Daily parking	Rate – median	42.00	17.19	244.3
Hourly parking	Rate – high	10.00	9.73	102.8
Hourly parking	Rate – low	1.50	2.71	55.4
Hourly parking	Rate – median	6.50	5.77	112.7
Garages offering additional services (percent)		5	23.2	21.6
Garages with waiting lists (percent)		5	6.2	80.6
Typical wait period (number of months)		2.0	9.3	(X)
Availability of parking		2/ Fair	(X)	(X)
Additional garages within next 24 months		-	11	(X)
Parking spots to be added		-	4,042	(X)

X Not applicable.

1/ 'Early Bird' refers to discounted parking offered to those that park before the work day begins. Both 'Early Bird' and 'Hourly metered parking' were tabulated separately in previous reports but not in 2009 to 2011.

2/ Refers to parking garages usually full Monday to Friday and on weekends during special events.

Source: Colliers International North America, "2012 CBD Parking rates, North America, Central Business District, Parking Rate Survey" <<http://www.colliers.com/Country/UnitedStates/Research>> accessed July 7, 2012 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 14.18-- TOP 50 DESTINATION CAR RENTAL RATES IN THE UNITED STATES: 2015**

[The table below compares car rental rates of 50 destinations in the United States. The prices shown reflect the average daily rate for the cheapest available rental car in each destination during the period spanning October 1, 2014 through September 30, 2015. Each city's main airport was chosen as the Pick-Up and Drop-Off location. Rank of 1 assigned to the highest car rental rate]

Rank	City and state	Rate (dollars)	Rank	City and state	Rate (dollars)
1	Philadelphia	65	26	Dallas	40
2	New York City	61	27	Buffalo	39
3	Detroit	58	27	Denver	39
3	Indianapolis	58	<b>29</b>	<b>Honolulu</b>	<b>38</b>
5	Austin	56	30	Minneapolis	37
6	Charlotte	55	30	San Antonio	37
7	Cincinnati	53	30	Salt Lake City	37
7	St. Louis	53	30	Atlanta	37
9	Baltimore	52	30	Pittsburgh	37
9	Cleveland	52	35	Sacramento	36
11	New Orleans	51	36	Oakland	35
11	Boston	51	37	Seattle	34
13	Kansas City	50	38	San Jose	33
14	Memphis	49	39	Savannah	32
14	Chicago	49	40	Las Vegas	31
14	Reno	49	41	Los Angeles	29
17	Nashville	48	41	Fort Lauderdale	29
17	Portland	48	41	Jacksonville	29
19	Tucson	47	41	San Diego	29
20	Milwaukee	46	45	Myrtle Beach	28
21	Anchorage	45	45	Tampa	28
21	Houston	45	47	Orlando	27
23	Albuquerque	44	48	San Francisco	26
24	Phoenix	41	48	Charleston	26
24	Washington	41	50	Miami	20

Source: CheapCarRental "The Most Expensive Car Rental Destinations in the USA" (October 1, 2015) <<http://www.cheapcarrental.net/press/usa2015.html>> accessed October 28, 2015.

**Table 14.19-- CAR RENTAL RATES FOR 30 MAJOR  
UNITED STATES CITIES: THANKSGIVING PREMIUM 2017**

[The car rental rates of 30 major U.S. destinations were established on November 12, 2017 via a leading car rental comparison engine for the long Thanksgiving weekend, November 21 to 25, 2017. Regular rates reflect the average car rental prices for November. Each city's main airport was chosen as the pick-up and drop-off location. Rank of 1 assigned to the highest car rental rate]

Rank	City	Rate (dollars)	'Holiday' premium (percent)
1	New York City	116	125
2	Boston	74	24
3	Denver	64	18
4	Atlanta	62	84
5	Dallas	61	43
6	New Orleans	60	21
7	Chicago	60	47
8	Kansas City	60	12
9	Pittsburgh	56	21
10	Detroit	55	2
11	Washington D.C.	53	14
12	Charlotte	52	64
13	Portland	51	27
14	Baltimore	50	55
15	St Louis	49	43
16	Tampa	49	89
17	Minneapolis	49	5
18	Cleveland	46	7
19	Seattle	45	117
20	Houston	44	-6
21	Phoenix	44	47
22	San Francisco	44	38
23	Philadelphia	40	2
24	San Antonio	39	-25
<b>25</b>	<b>Honolulu</b>	<b>39</b>	<b>37</b>
26	Las Vegas	37	89
27	Orlando	30	12
28	San Diego	26	2
29	Miami	22	47
30	Los Angeles	21	-30

Source: CheapCarRental "The most expensive car rental destinations for Thanksgiving " (November 21, 2017) <<https://www.cheapcarrental.net/press/thanksgiving2017.html>> accessed April 17, 2018.

**Table 14.20-- AVERAGE ANNUAL AUTO INSURANCE RATES AND AS PERCENT OF MEDIAN ANNUAL HOUSEHOLD INCOME FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JUNE 2012**

[Median car insurance rates are determined by a Quadrant Information Services and were based on actual customer profiles of online car insurance shoppers that can include multiple drivers, multiple vehicles and other variables. Income data are from the 2010 Census and car insurance data collected June 2012. Ranking based on car insurance as highest percent of household income]

Rank	State	Median price of annual car insurance	Median annual household income	Car insurance as percent of household income
1	Michigan	4,490	56,101	8.00
2	Louisiana	2,912	52,456	5.55
3	Kentucky	2,292	50,392	4.55
4	West Virginia	2,074	48,927	4.24
5	Mississippi	1,840	45,484	4.05
6	Arkansas	1,722	47,049	3.66
7	Delaware	2,456	68,746	3.57
8	New York	2,334	65,897	3.54
9	Nevada	2,070	60,192	3.44
10	Florida	1,784	53,093	3.36
11	District of Columbia	2,570	77,514	3.32
12	South Carolina	1,682	51,704	3.25
13	Rhode Island	2,132	67,814	3.14
14	Arizona	1,724	55,353	3.12
15	New Jersey	2,556	82,427	3.10
16	Oklahoma	1,610	51,958	3.10
17	Georgia	1,632	55,209	2.96
18	South Dakota	1,772	59,987	2.95
19	Pennsylvania	1,828	61,890	2.95
20	Alabama	1,476	50,429	2.93
21	Tennessee	1,452	51,083	2.84
22	Minnesota	1,924	69,625	2.76
23	Missouri	1,550	56,214	2.76
24	Illinois	1,716	65,417	2.62
25	New Mexico	1,306	51,020	2.56
26	Texas	1,420	56,575	2.51
27	Montana	1,354	54,507	2.48
28	Idaho	1,290	52,342	2.47
29	Connecticut	1,984	81,246	2.44
30	Maryland	2,030	83,137	2.44
31	Kansas	1,480	61,013	2.43
32	Colorado	1,562	67,800	2.30

Continued on next page.

**Table 14.20-- AVERAGE ANNUAL AUTO INSURANCE RATES AND AS PERCENT OF MEDIAN ANNUAL HOUSEHOLD INCOME FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JUNE 2012 -- Con.**

Rank	State	Median price of annual car insurance	Median annual household income	Car insurance as percent of household income
33	Indiana	1,268	55,368	2.29
34	Wisconsin	1,400	62,088	2.26
35	Nebraska	1,348	60,812	2.22
36	Vermont	1,380	62,575	2.21
37	Washington	1,458	67,328	2.17
38	North Dakota	1,384	65,207	2.12
39	Wyoming	1,394	65,841	2.12
40	Utah	1,270	61,618	2.06
41	Ohio	1,128	56,518	2.00
42	Maine	1,160	58,197	1.99
43	Virginia	1,444	72,476	1.99
44	California	1,304	65,481	1.99
45	New Hampshire	1,484	74,634	1.99
46	Iowa	1,202	60,917	1.97
47	Oregon	1,108	56,661	1.96
48	Alaska	1,348	76,962	1.75
<b>49</b>	<b>Hawaii</b>	<b>1,244</b>	<b>76,134</b>	<b>1.63</b>
50	North Carolina	860	52,920	1.63
51	Massachusetts	1,128	78,653	1.43

Source: CarInsurance.com "10 states where car insurance really bites your budget" <[http://www.carinsurancequotes.com/car\\_insurance-costs](http://www.carinsurancequotes.com/car_insurance-costs)> accessed July 30, 2012.

**Table 14.21-- AVERAGE ANNUAL AUTO INSURANCE RATES FOR THE 50 STATES: 2018**

[Average cost of car insurance from 6 of the largest auto insurance companies in the United States: Allstate, Farmers, GEICO, Nationwide, Progressive and State Farm. The premiums assume the policyholder is a 40-year-old male buying full coverage and commuting 12 miles to work each day. The policy purchased is a 100/300/50 (\$100,000 for individual injury liability, \$300,000 total bodily injury per accident, and \$50,000 for property damage), with a \$500 deductible on collision and comprehensive coverage]

Rank	State	Average price of annual car insurance	Rank	State	Average price of annual car insurance
1	Michigan	2,551	26	Arkansas	1,399
2	West Virginia	2,518	27	Tennessee	1,397
3	Georgia	2,201	28	Nevada	1,388
4	Rhode Island	2,020	29	Mississippi	1,385
5	Montana	2,013	30	New Mexico	1,371
6	Louisiana	1,971	31	Illinois	1,370
7	California	1,962	32	Minnesota	1,360
8	New Jersey	1,905	33	Kansas	1,358
9	Florida	1,830	34	Oregon	1,333
10	Maryland	1,810	35	Nebraska	1,317
11	North Dakota	1,710	36	South Carolina	1,316
12	Connecticut	1,638	37	Arizona	1,222
13	Texas	1,620	38	Missouri	1,207
14	Alaska	1,605	39	Indiana	1,202
15	Massachusetts	1,604	40	Utah	1,192
16	Delaware	1,580	41	New York	1,173
17	Oklahoma	1,568	42	Vermont	1,149
18	Colorado	1,558	43	Virginia	1,114
19	South Dakota	1,557	44	Wisconsin	1,087
20	Wyoming	1,541	45	North Carolina	1,060
21	Alabama	1,529	46	Iowa	1,058
22	Kentucky	1,503	47	Idaho	1,053
23	Washington	1,499	48	New Hampshire	983
24	Pennsylvania	1,440	49	Maine	964
<b>25</b>	<b>Hawaii</b>	<b>1,400</b>	50	Ohio	926

Source: MyCarInsurance123 "Average Car Insurance Rates By State 2018"  
 <<https://www.mycarinsurance123.com/average-car-insurance-rates/>> accessed July 14, 2018.

**Table 14.22-- AVERAGE MONTHLY AND ANNUAL AUTO INSURANCE RATES FOR EACH OF THE 50 STATES AND THE DISTRICT OF COLUMBIA: 2018**

[According to a study done by ValuePenguin, the price of car insurance can vary greatly depending on a number of factors including age, gender, marital status, driving record, years of driving experience, credit history, the type of car you drive, your claims history, and more. This study does not standardize on one combination of factors but rather on the average policyholder's premium in each state]

Rank 1/	State	Average price of car insurance		Rank 1/	State	Average price of car insurance	
		Monthly	Annual			Monthly	Annual
1	Michigan	213	2,551	<b>26</b>	<b>Hawaii</b>	<b>117</b>	<b>1,400</b>
2	West Virginia	210	2,518	28	Nevada	116	1,388
3	Georgia	183	2,201	28	Tennessee	116	1,397
4	Dist. of Colum.	177	2,127	30	Mississippi	115	1,385
5	Montana	168	2,013	31	Illinois	114	1,370
5	Rhode Island	168	2,020	31	New Mexico	114	1,371
7	California	164	1,962	33	Kansas	113	1,358
7	Louisiana	164	1,971	33	Minnesota	113	1,360
9	New Jersey	159	1,905	35	Oregon	111	1,333
10	Florida	153	1,830	36	Nebraska	110	1,317
11	Maryland	151	1,810	36	South Carolina	110	1,316
12	North Dakota	143	1,710	38	Arizona	102	1,222
13	Connecticut	137	1,638	39	Missouri	101	1,207
14	Texas	135	1,620	40	Indiana	100	1,202
15	Alaska	134	1,605	41	Utah	99	1,192
15	Massachusetts	134	1,604	42	New York	98	1,173
17	Delaware	132	1,580	43	Vermont	96	1,149
18	Oklahoma	131	1,568	44	Virginia	93	1,114
19	Colorado	130	1,558	45	Wisconsin	91	1,087
19	South Dakota	130	1,557	<b>46</b>	Idaho	88	1,053
21	Wyoming	128	1,541	46	Iowa	88	1,058
22	Alabama	127	1,529	46	North Carolina	88	1,060
23	Kentucky	125	1,503	49	New Hampshire	82	983
23	Washington	125	1,499	50	Maine	80	964
25	Pennsylvania	120	1,440	51	Ohio	77	926
26	Arkansas	117	1,399				

1/ Rank of average monthly premium.

Source: Business Insider "Americans spend an average of \$125 a month on car insurance — here's what people pay in every state"

<<http://www.businessinsider.com/average-cost-car-insurance-in-every-state-ranked-2018-3>>  
accessed July 14, 2018.

**Table 14.23-- COST OF LIVING GLOBAL RANK FOR SELECTED MAJOR CITIES IN THE UNITED STATES: 2008 TO 2018**

[The survey, conducted in March, covers 209 to 375 cities worldwide and measures the comparative cost of over 200 items in each location, including housing, food, clothing, utilities, transportation, and entertainment costs. The higher the index, the lower the rank where a rank of 1 indicates the most expensive city. New York City = 100.0]

City and state	Global rank										
	2008	2009	2010	2011	2012	2013 1/	2014 1/	2015	2016	2017	2018
Atlanta, GA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	147	103	78	83	95
Boston, MA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	123	109	64	47	51
Chicago, IL	84	50	(NA)	(NA)	(NA)	(NA)	85	42	34	31	51
Cleveland, OH	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	167	133	110	100	125
Dallas, TX	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	125	77	62	62	85
Detroit, MI	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	160	122	103	95	116
<b>Honolulu, HI</b>	<b>77</b>	<b>41</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>117</b>	<b>97</b>	<b>52</b>	<b>37</b>	<b>35</b>	<b>54</b>
Houston, TX	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	143	92	75	74	86
Los Angeles, CA	55	23	55	(NA)	(NA)	(NA)	62	36	27	23	35
Miami, FL	75	45	(NA)	(NA)	(NA)	114	98	56	45	41	60
Minneapolis, MN	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	156	115	91	86	102
Morristown, NJ	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	132	88	71	81	97
New York City, NY	22	8	27	32	33	24	16	16	11	9	13
Pittsburgh, PA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	162	130	112	107	125
Portland, OR	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	166	135	117	115	130
San Francisco, CA	78	34	(NA)	(NA)	(NA)	92	74	37	26	21	28
Seattle, WA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	153	106	83	76	90
St. Louis, MO	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	161	130	108	100	122
Washington, DC	(NA)	(NA)	111	(NA)	(NA)	(NA)	92	50	38	39	56
White Plains, NY	89	31	(NA)	(NA)	(NA)	(NA)	81	71	61	64	79
Winston Salem, NC	(NA)	(NA)	197	(NA)	(NA)	(NA)	182	157	147	140	161

Continued on next page.

**Table 14.23-- COST OF LIVING GLOBAL RANK FOR SELECTED MAJOR CITIES IN THE UNITED STATES: 2008 TO 2018 -- Con.**

NA Not available.

1/ Originally not available in the News Release, the rankings were derived from data in the following year's release.

Source: Mercer LLC, "Worldwide Cost of Living Survey 2009 – City ranking" (July 7, 2009) <<http://www.mercer.com/summary.htm?idContent=1311145>> accessed July 17, 2009; Ibid. "Worldwide Cost of Living Survey 2010 - City rankings" (June 29, 2010) <[http://www.mercer.com/costoflivingpr#City\\_rankings](http://www.mercer.com/costoflivingpr#City_rankings)> accessed July 8, 2010; Ibid. 2011 (July 12, 2011) <[http://www.mercer.com/costoflivingpr#City\\_rankings](http://www.mercer.com/costoflivingpr#City_rankings)> accessed July 12, 2011; Ibid. "Worldwide Cost of Living Survey 2012 – city ranking" (June 12, 2012) <[http://www.mercer.com/costoflivingpr#City\\_rankings](http://www.mercer.com/costoflivingpr#City_rankings)> accessed July 9, 2012; Ibid. 2013 "African, European, and Asian Cities Dominate the Top 10 Most Expensive Locations for Expatriates" (July 23, 2013) <[http://www.mercer.com/costoflivingpr#City\\_rankings](http://www.mercer.com/costoflivingpr#City_rankings)> accessed July 30, 2013; Ibid. 2014, (July 10, 2014) <[http://www.mercer.com/newsroom/cost-of-living-survey.html#City\\_rankings](http://www.mercer.com/newsroom/cost-of-living-survey.html#City_rankings)> accessed July 10, 2014; "2015 Cost of Living Rankings" (June 17, 2015) <<http://www.mercer.com/newsroom/cost-of-living-survey.html>> accessed July 2, 2015; Ibid. 2016 "Continued Demand for Mobility in the Global Workforce Challenged by Cost of Expatriate Packages" (June 22, 2016) <<http://www.mercer.com/newsroom/continued-demand-for-mobility-in-the-global-workforce-challenged-by-cost-of-expatriate-packages.html>> accessed July 12, 2016; Ibid 2017 "Despite Worldwide Changes, Multinationals Focus on Mobile Workforces to Support Career Growth and Ensure Competitiveness" (June 21, 2017) <<https://www.mercer.com/newsroom/cost-of-living-2017.html>> accessed July 1, 2017; and "Mercer's Annual Cost of Living Survey Finds Asian, European, and African Cities Most Expensive Locations for Employees" (June 26, 2018) <<https://www.mercer.com/newsroom/cost-of-living-2018.html>> accessed June 27, 2018.

**Table 14.24-- TOP 10 MOST EXPENSIVE AND 10 CHEAPEST STATES TO LIVE: 2018**

[CNBC considered basic items in the most expensive and cheapest areas of the state. Average price data based on Council for Community and Economic Research C2ER Cost of Living Index, 2017 Annual Average. See also <<http://coli.org/About/>>]

Rank	State	Metro area 1/	Average home price	Half gallon of milk	Ribeye steak	Monthly energy bill	Doctor visit
Most expensive							
1	Hawaii	Honolulu	1,044,462	3.64	13.06	432.62	127.14
2	California	San Francisco- Redwood City- South San Francisco	1,182,092	2.72	12.94	235.44	142.61
3	Massachusetts	Boston	604,205	2.49	12.14	217.29	151.91
4	New York	Manhattan	1,739,037	3.24	12.88	210.06	105.00
5	Alaska	Juneau	509,408	2.81	13.59	262.85	193.50
6	Oregon	Portland	507,368	2.06	12.94	145.24	107.61
7	Maryland	Bethesda-Gaithers- burg-Frederick	746,332	2.32	13.62	176.24	94.00
8	Connecticut	Bridgeport-Stamford- Norwalk Metro	681,279	1.96	12.74	200.20	124.71
9	Rhode Island	Providence	435,485	2.39	12.39	212.39	146.33
10	New Jersey	Bergen-Passaic counties	555,231	2.30	11.80	189.76	97.06
Cheapest							
1	Mississippi	Gulfport-Biloxi- Pascagoula Metro	214,317	2.32	11.26	114.10	87.58
2	Arkansas	Little Rock	320,278	2.15	11.69	140.50	121.67
3	Oklahoma	Tulsa	219,227	2.17	10.80	147.64	109.67
4	Michigan	Detroit-Dearborn- Livonia Metro	295,582	1.73	12.84	150.83	97.81
5	Tennessee	Chattanooga	348,413	2.09	12.04	132.07	128.20
6	Missouri	Columbia	292,049	2.14	12.08	162.17	127.06
7	Kansas	Topeka	273,940	1.95	10.49	161.88	97.33
8	Alabama	Huntsville	243,562	1.71	10.82	155.88	93.11
9	Georgia	Atlanta	290,041	1.98	12.05	(NA)	105.10
10	Indiana	Bloomington	279,097	1.83	12.64	150.52	75.18

NA Not available.

1/ Average home price applies to indicated Metro area.

Source: CNBC, "America's Top States for Business - Most Expensive Places to Live in America" (July 10, 2018; <<https://www.cnbc.com/2018/06/28/these-are-americas-most-expensive-states-to-live-in-for-2018.html>> accessed July 10, 2018; and "America's 10 cheapest states to live in" <<https://www.cnbc.com/2018/06/28/americas-cheapest-states-to-live-in-2018.html>> accessed July 10, 2018.

**Table 14.25-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR  
FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.,  
BY COUNTY: 1996 TO 2018**

[As of April 19, 2018. Maui includes Kalawao]

Effective or survey date	Allowance category	Honolulu	Hawaii	Maui	Kauai
<b>ALLOWANCE RATES</b>					
March 25, 1997	All employees 1/	22.50	15.00	22.50	22.50
December 2, 1997	All employees 1/	22.50	15.00	22.50	22.50
October 21, 1998	All employees 2/	25.00	15.00	22.50	22.50
October 3, 2000	All employees 3/	25.00	16.50	23.75	23.25
November 9, 2001	All employees 4/	25.00	16.50	23.75	23.25
June 30, 2008	All employees 5/	25.00	18.00	25.00	25.00
<b>COLA AND LOCALITY PAY RATES</b>					
January 1, 2009	COLA 5/	25.00	18.00	25.00	25.00
	Locality rate 6/	0.00	0.00	0.00	0.00
January 1, 2010	COLA 6/ 7/	20.94	14.26	20.94	20.94
	Payable locality rate 6/	4.72	4.72	4.72	4.72
	Full locality rate 6/	14.16	14.16	14.16	14.16
January 1, 2011	COLA 6/ 8/	16.07	9.76	16.07	16.07
	Payable locality rate 6/	11.01	11.01	11.01	11.01
	Full locality rate 6/	16.51	16.51	16.51	16.51
January 1, 2012	COLA 6/ 8/	12.25	6.24	12.25	12.25
	Payable locality rate 6/	16.51	16.51	16.51	16.51
	Full locality rate 6/	16.51	16.51	16.51	16.51
January 1, 2016	COLA 6/	12.05	6.05	12.05	12.05
	Locality rate 6/	16.81	16.81	16.81	16.81
January 1, 2017	COLA 6/	11.32	5.39	11.32	11.32
	Locality rate 6/	17.92	17.92	17.92	17.92
January 1, 2018	COLA 6/	10.99	5.08	10.99	10.99
	Locality rate 6/	18.43	18.43	18.43	18.43
<b>INDEXES</b>					
1996 Survey	Cost of Living Index 9/	121.95	111.89	121.36	121.36
1998 Survey	Cost Comparison Index 10/	124.51	110.89	120.32	117.19
2007 Survey	Cost of Living Index 11/	121.37	111.71	123.62	118.14
2007 Survey, 2008 adj.	Cost Comparison Index 11/	121.40	111.74	123.65	118.17

Continued on next page.

**Table 14.25-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTY: 1996 TO 2018 -- Con.**

- 1/ Interim Rule issued on March 25 and Final Rule issued on December 2, 1997.
  - 2/ As Interim Rule on October 21 and as corrected on November 13, 1998. Final Rule published July 17, 2000, effective August 16, 2000. Current law prohibits reduction in COLA rates through December 31, 2000. As part of the COLA Research in the litigation Caraballo et al vs United States and as requested by Congress, an Interim Rates and Survey Schedule was announced but not yet enacted. The rates, as of October 1, 2000, are raised for Hawaii and Maui to 16.50 and 23.75 percent respectively. The Interim Rates as well as those for Kauai may increase further depending upon the results of the 1998 price surveys and the surveys conducted under New Regulations. Also see OMP, Non-Foreign Area Cost-of-Living Allowances, Special COLA Research Announcement, July 17, 2000 and <<http://www.opm.gov/oca/cola/html/cola-n.htm>>.
  - 3/ Interim rule and invitation for comment issued in Federal Register: Vol. 65, No. 192.
  - 4/ Final rule issued in Federal Register: November 9, 2001 (Volume 66, Number 218).
  - 5/ Final rule issued in Federal Register: May 29, 2008 (Volume 73, Number 104).
  - 6/ As provided under the Nonforeign Area Retirement Equity Assurance Act of 2009 (NAREAA) (subtitle B of title XIX of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111-84, October 28, 2009)), the locality rate for each nonforeign area will be set at two-thirds of the applicable locality rate in January 2011 and the full applicable locality rate in January 2012. Employees in nonforeign areas, e.g. Hawaii, have corresponding reductions in their cost-of-living allowances (COLAs) when locality rates increase.
  - 7/ 2010 COLA rates are also shown in the Compensation Policy Memorandum posted at <<http://www.chcoc.gov/Transmittals/TransmittalDetails.aspx?TransmittalID=2732>>.
  - 8/ 2011 COLA rates are also shown in the Compensation Policy Memorandum posted at <<http://www.chcoc.gov/Transmittals/TransmittalDetails.aspx?TransmittalID=3300>>.
  - 9/ 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.
  - 10/ Similar explanation to footnote 8/ except the survey period was 1998 and publication in the Federal Register was July 17, 2000.
  - 11/ Similar explanation to footnote 8/ except the survey period was 2007 and publication in the Federal Register was May 29, 2008.
- 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); Vol. 63, No. 219, November 13, 1998 (p. 63385) and <<http://www.opm.gov/oca/cola/html/c-rates.html>> accessed May 15, 2000. OMP-announced Federal COLA Retro Settlement, 06-23-00 and further developments <<http://www.opm.gov/oca/compmemo/2000/2000-10.htm>>. OMP, Non-Foreign Area Cost-of-Living Allowances, Special COLA Research Announcement, July 17, 2000; OMP, Cost-of-Living Allowances Vol. 65, No. 192, October 3, 2000 (58901-58902) and <<http://www.opm.gov/oca/cola/html/c-rates.html>> accessed June 30, 2007; and *Federal Register*, Vol. 73, No. 104, May 29, 2008 (pp. 30727- 30734) <<http://edocket.access.gpo.gov/2008/pdf/E8-12020.pdf>> accessed May 29, 2008; OPM "Nonforeign Area Cost-of-Living Allowances" <<http://www.opm.gov/oca/cola/rates.asp>> accessed July 8, 2011; OPM, Memorandum for Heads of Executive Departments and Agencies "Executive Order for 2011 Pay Schedules" (December 20, 2010) <<http://www.chcoc.gov/Transmittals/TransmittalDetails.aspx?TransmittalID=3300>> accessed July 11, 2012; OPM, "COLA and Locality Pay Rates in Nonforeign Areas 2009-2015" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed July 22, 2015; "COLA and Locality Pay Rates in Nonforeign Areas 2016" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed June 6, 2016; OPM, "COLA and Locality Pay Rates in Nonforeign Areas 2017" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed April 18, 2017; OPM, "COLA and Locality Pay Rates in Nonforeign Areas 2018" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed April 19, 2018.

**Table 14.26-- COST OF LIVING ALLOWANCE INDEXES FOR MILITARY IN HAWAII RELATIVE TO CONTINENTAL UNITED STATES, BY ISLAND**

[As of July 1, 2018. Index number continental United States=100]

<b>Effective date</b>	<b>Locality</b>	<b>Locality code 1/</b>	<b>Index</b>
September 1, 2017	Hawaii (island)	HI001	122
June 16, 2018	Kauai	HI003	130
June 16, 2018	Maui	HI005	130
June 16, 2018	Molokai	HI007	130
September 1, 2017	Oahu	HI009	120
November 8, 1989	Other islands	HI999	(1/)

1/ Locality Code is assigned by the Department of Defense to identify each area entitled to COLA. Location code "HI 999 - Other islands" is a valid location but COLA is not currently prescribed for this Hawaii location.

Source: U.S. Department of Defense, Defense Travel Management Committee, Overseas Cost-of-Living Program, "Changes Effective 1 July 2018, Table III - Cost-of-Living Allowance (COLA) Indexes", p.5 <[http://www.defensetravel.dod.mil/Docs/perdiem/browse/Allowances/Appendix\\_J\\_Overseas\\_COLA\\_Tables/2018-COLA-Indexes/07-01-18\\_COLA\\_Indices.pdf](http://www.defensetravel.dod.mil/Docs/perdiem/browse/Allowances/Appendix_J_Overseas_COLA_Tables/2018-COLA-Indexes/07-01-18_COLA_Indices.pdf)> accessed July 6, 2018.

**Table 14.27-- PER DIEM RATES FOR MILITARY IN HAWAII, BY ISLAND OR INSTALLATION**

[As of July 1, 2018. In dollars per day. To calculate a per diem rate: maximum lodging plus meals (local, proportional, or government) plus incidental rate (local or onbase) as specified in the travel orders. Once effective, the rates apply January 1 - December 31, unless otherwise specified]

Locality	Maximum per diem rate 1/	Lodging	Local meals rate	Proportional meals rate	Local incidental rate 2/	Effective date
Camp H.M. Smith	315	177	111	63	27	August 1, 2017
EASTPAC Naval COMP TELE Area	315	177	111	63	27	August 1, 2017
Ft. DeRussey	315	177	111	63	27	August 1, 2017
Ft. Shafter	315	177	111	63	27	August 1, 2017
Hickam Air Force Base	315	177	111	63	27	August 1, 2017
Hilo (Island of Hawaii)	316	199	94	54	23	August 1, 2017
Honolulu	315	177	111	63	27	August 1, 2017
Isle of Hawaii: Hilo	316	199	94	54	23	August 1, 2017
Isle of Hawaii: Other 3/	350	189	129	72	32	August 1, 2017
Isle of Hawaii: Other 4/	400	239	129	72	32	August 1, 2017
Isle of Kauai	460	325	108	61	27	April 1, 2016
Isle of Maui	429	269	128	71	32	August 1, 2017
Isle of Oahu	315	177	111	63	27	August 1, 2017
Joint Base Pearl Harbor- Hickam	315	177	111	63	27	August 1, 2017
Kapolei	315	177	111	63	27	August 1, 2017
Kekaha Pacific Missile Range Fac.	460	325	108	61	27	April 1, 2016
Kilauea Military Camp	316	199	94	54	23	August 1, 2017
Lanai	365	254	89	52	22	August 1, 2017
Lihue (Island of Kauai)	460	325	108	61	27	April 1, 2016
Lualualei Naval Magazine	315	177	111	63	27	August 1, 2017
Marine Corps Base Hawaii	315	177	111	63	27	August 1, 2017
Molokai	291	176	92	53	23	August 1, 2017
NOSC Pearl Harbor 5/	315	177	111	63	27	August 1, 2017
Pearl Harbor	315	177	111	63	27	August 1, 2017
PMRF Barking Sands	460	325	108	61	27	October 1, 2016
Schofield Barracks	315	177	111	63	27	August 1, 2017
Tripler Army Medical Center	315	177	111	63	27	August 1, 2017
Wahiawa NCTAMS PAC 6/	315	177	111	63	27	August 1, 2017
Wheeler Army Airfield	315	177	111	63	27	August 1, 2017
Other 7/	316	199	94	54	23	August 1, 2017

1/ For reimbursement of subsistence expenses incurred during official OCONUS (Outside Continental United States) travel.

2/ The standard onbase incidental rate is \$3.50 OCONUS-wide.

3/ This rate is effective for the season beginning March 26 through December 17.

4/ This rate is effective for the season beginning December 18 through December 31.

5/ Naval Operations Support Center Pearl Harbor (NOSC Pearl Harbor).

6/ Wahiawa Naval Computer and Telecommunications Area Master Station, Pacific (NCTAMS PAC).

7/ Use this rate if neither the city nor military installation is listed.

Source: U.S. Department of Defense, Defense Management Travel Office, "Maximum Per Diem Rates Outside The Continental United States Travel Per Diem Allowances, Effective 01 July 2018"

<<http://www.defensetravel.dod.mil/site/perdiem.cfm>> accessed July 6, 2018.