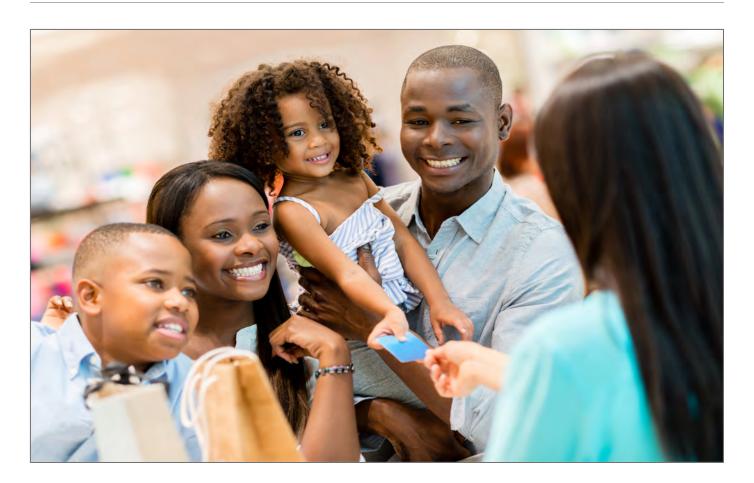




PRICES AND SPENDING



# Income and spending patterns among Black households

By Reginald A. Noël

Household spending data can offer great insight on how households choose and prioritize their wants and needs. In addition, changes in the household spending market basket help to determine Social Security's general benefit increases, based on cost of living, as measured by the Consumer Price Index. Moreover, such information is widely used by policymakers and researchers to study the impact of inflation and government economic policy.

Data from the U.S. Bureau of Labor Statistics (BLS) Consumer Expenditure (CE) Survey provide information on annual household spending. From these aggregated data, analysts, in government, business, labor, and academia, can generalize about consumer behavior in the U.S. population. However, looking at demographic

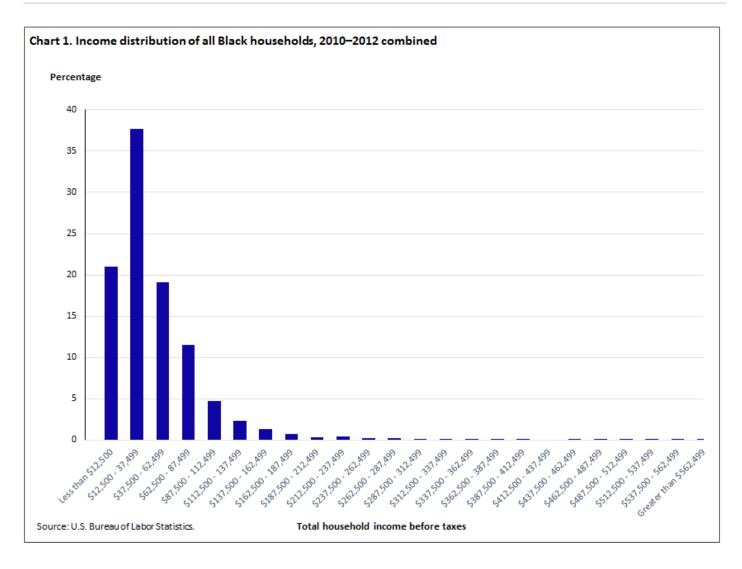
subgroups of the population can give us a deeper understanding of consumption preferences and spending behavior for a particular group. Using data from the CE Survey, this article looks at the household spending and the income distribution of all Black households. It then compares and contrasts the spending patterns of low-income Black households to their high-income counterparts. Findings show that the average amount of pretax income for Black households is about 70 percent of the national average. In addition, the analysis based on income shows that tobacco and smoking supplies were the only expenditure category in which high-income Black households did not outspend low-income Black households.

#### Data and design

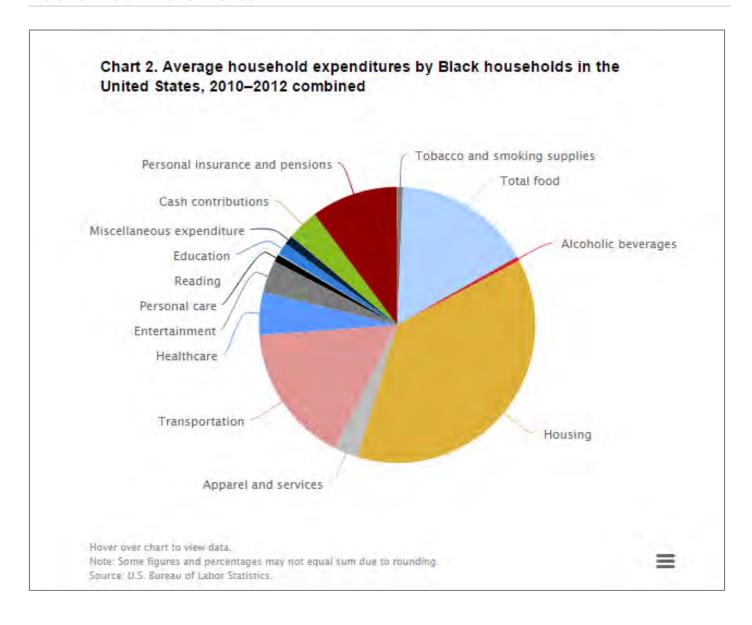
Blacks, not including those of more than one race, made up 13.1 percent of the total United States population, with over 39 million people. The CE provides data on both large and small purchases by American households. This article is based on data from the Consumer Expenditure Quarterly Interview survey using data from 2010, 2011, and 2012. The sample used in this study is composed of 11,000 interviews in which reference persons self-identified their race as Black. This article analyzed the income distribution and spending patterns of all the Black households identified in the data. This sample was then partitioned based upon the 20th and 80th percentiles of Black households' income before taxes to make comparisons between high and low income groups.

## All Black households: Income, characteristics, and spending patterns

Based on CE data, combined from 2010 to 2012, the average pretax income for the total U.S. population was \$63,935, annually. However, Black households within the same reference period reported average pretax income of \$45,287. The distribution of Black household pretax income is skewed; most households sampled are on the lower end of the income continuum. In fact, more than 35 percent of Black households' pretax income fall between \$12,500 and \$37,499. (See chart 1.)



The average Black household contains 2.57 persons. In addition, Black households averaged 1.25 owned vehicles. Most of these households were renters, living in apartments or flats. Their dwellings averaged 5.45 rooms (including finished living areas and excluding all baths) and 1.49 bathrooms. Black households' annual expenditures averaged \$36,149, which was 79.8 percent of their average income before taxes. The amount spent on housing (\$13,530) consumed the biggest portion of annual expenditures, accounting for more than one-third of the total. This was followed by transportation (\$5,946) and food (\$5,825). The remaining expenditures made up roughly 30 percent of total spending: personal insurance and pensions, healthcare, entertainment, cash contributions, apparel, and education, in addition to personal care, tobacco, alcohol, reading, and miscellaneous expenditures. (See chart 2.)



## Comparisons of low-income and high-income households

Before comparing low-income and high-income Black households, these groups needed to be defined. In the sample, the lowest 20th percentile contained approximately 2,200 Black households that made less than \$12,001 in pretax income per year from all sources of income. This coincided with the poverty threshold for one person under the age of 65 (\$11,945). This lowest quintile group will be referred to as the "low-income" Black households.

The highest 20th percentile is made up of roughly 2,200 Black households that made more than \$66,549 in pretax income per year from all sources of income. Their mean income was roughly \$112,000. Comparatively, the highest 20th percentile of the national sample in the same period had a lower bound of approximately \$94,000 and a mean income of approximately \$162,000. Nonetheless, the Black households with income

greater than or equal to \$66,550 are the highest quintile group in their sample, and will be referred to as the "high-income" Black households.

Low-income Black households in the sample averaged \$6,342 in pretax income, compared with an average \$112,307 in pretax income for high-income Black households. Among Black households, the average age of the reference person (47 years) did not differ significantly in the low- and high-income Black households. However, the size of the family differed by approximately 1.4 persons. The low-income Black households contained 1.9 persons on average, and the high-income Black households averaged 3.3 persons. In addition, high-income Blacks owned 2.1 vehicles versus 0.5 vehicles for the low-income Black households. Moreover, most low-income Blacks rented their living quarters. In contrast, high-income Blacks tended to own a single family detached home, with an average 2.3 more rooms and a mortgage. (See table 1.)

Table 1. High-and low-income Black households by selected characteristics, number of vehicles, and living arrangements, 2010–2012 combined

Category	Pretax income	Age of reference person	Family size	Number of vehicles	Number of bathrooms in unit	Number of rooms in unit
All United States	63,934.98	49.7	2.5	1.9	(2)	n.a.
All U.S. Black households	\$45,286.80	47.4	2.6	1.3	1.5	5.5
High-income Black households	\$112,306.56	46.5	3.3	2.1	1.9	6.9
Low-income Black households	\$6,342.43	47.3	1.9	0.5	1.2	4.6

<sup>(1)</sup> The All U.S.-household tabulations were approximated as the average for the 3-year average for the 3 years, weighted by their respective proportional populations.

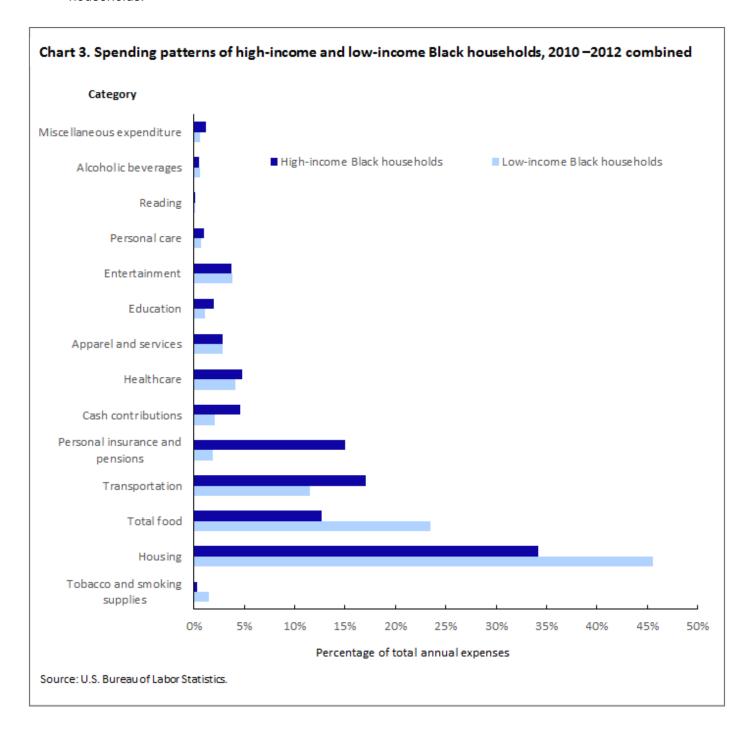
Source: U.S. Bureau of Labor Statistics.

Here are highlights of the spending patterns of low-income versus high-income Black households:

- On average, low-income Black households spent \$16,627 in total annual expenditures, compared with high-income Black households who spent approximately \$50,000 more.
- Housing was the biggest expenditure for both types of households. For the high-income Black households, housing was 34.2 percent of the total annual expenditure. For the low-income Black households, it was nearly half of the total annual expenditure, at 45.5 percent.
- Food was another large spending category for both types of households. However, it made up only 12.7
  percent of total expenditures for high-income Black households, compared with 23.5 percent for lowincome Black households.
- Transportation and personal insurance and pensions made up only 11.5 percent and 1.9 percent, respectively, of total expenditure for the low-income Black households. However, for the high-income Black households, these shares were 17.1 percent and 15.0 percent, respectively.
- Cash contributions, such as charitable donations, was a smaller expenditure category in which low and high-income Black households differed. Cash contributions were 2.1 percent for the low-income Black households and 4.6 percent for the high-income Black households.
- Among the remaining expenditure categories, alcoholic beverages, apparel and services, healthcare, entertainment, personal care, reading, education, and miscellaneous expenditures, low-income and highincome Black households had similar expenditure shares.

<sup>(2)</sup> Statistics on average number of rooms and bathrooms not listed on publication tables.

 Tobacco and smoking supplies was the only expenditure category in which low-income Black households spent both a higher share and a higher actual dollar outlay than their high-income counterparts. For low-income Black households, tobacco and smoking supplies was 1.5 percent (\$248) of their total expenditure but made up only 0.3 percent (\$218) of total expenditure for high-income Black households.<sup>13</sup>



For low-income Black households, the top five aggregate expenditure share categories were housing (45.5 percent), total food (23.5 percent), transportation (11.5 percent), healthcare (4.1 percent), and entertainment (3.8 percent). In comparison, the top five aggregate expenditure share categories for high-income Black

households were housing (34.2 percent), transportation (17.1 percent), personal insurance and pensions (15.0 percent), total food (12.7 percent), and healthcare (4.8 percent).

In terms of dollars spent, high-income Black households spend about three times as much on housing and twice as much on food when compared with low-income Black households. In addition, high-income Black households spend approximately six times as much on transportation, five times as much on healthcare, and four times as much on entertainment than their low-income counterparts. Personal insurance and pensions displayed the biggest contrast, with high-income Black households spending more than 30 times as much as the low-income Black households. (See table 2.)

Table 2. Average annual expenditures of all, high-and low-income Black households, 2010–2012 combined

Category	All Black	High-income Black	Low-income Black households	
	households	households		
Total average annual expenditures	\$36,148.98	\$67,114.17	\$16,627.29	
Tobacco and smoking supplies	\$239.06	\$218.26	\$248.34	
Housing	\$13,529.96	\$22,956.40	\$7,569.19	
Total food	\$5,825.34	\$8,514.41	\$3,910.12	
Transportation	\$5,945.94	\$11,469.17	\$1,915.35	
Personal insurance and pensions	\$3,678.55	\$10,043.75	\$315.33	
Cash contributions	\$1,347.50	\$3,081.13	\$349.31	
Healthcare	\$1,794.27	\$3,240.21	\$689.57	
Apparel and services	\$1,000.48	\$1,907.43	\$474.05	
Education	\$503.25	\$1,354.23	\$190.31	
Entertainment	\$1,362.24	\$2,485.95	\$635.57	
Personal care	\$318.71	\$645.89	\$117.30	
Reading	\$45.22	\$97.22	\$12.86	
Alcoholic beverages	\$168.09	\$329.53	\$95.40	
Miscellaneous expenditure	\$390.37	\$770.58	\$104.60	

In conclusion, the data supports the fact that Black households' pretax income is substantially lower than the national average. When comparing low-income and high-income Black households, the larger expenditure categories showed substantial differences in the expenditure share, with personal insurance and pensions displaying the biggest contrast. There were many similar spending patterns, however, when it came to shares allocated to the smaller expenditure categories. Moreover, in terms of nominal dollars spent, high-income Black households outspent low-income Black households in almost every category. The only category which low-income Black households were not outspent was tobacco and smoking supplies. This particular statistic supports the phenomenon that tobacco tends to be a higher share of total expenditures for those with lower

income as compared to those with higher income. 14 Nevertheless, household spending data can tell stories about the population; when analyzed from income, race, or any other demographic characteristics, the data can tell us a bit more.

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Retirement expenditures for Whites, Blacks, and persons of Hispanic origin

#### **NOTES**

- <sup>1</sup> "Cost-Of-Living Adjustment (COLA)" http://www.ssa.gov/OACT/cola/colasummary.html.
- <sup>2</sup> "Frequently Asked Questions (FAQs): Question: How is the Consumer Price Index (CPI) used?" <a href="https://www.bls.gov/dolfaq/bls\_ques1.htm">https://www.bls.gov/dolfaq/bls\_ques1.htm</a>.
- <sup>3</sup> The Black population is defined by people who indicated in the CE survey that they are "Black or African American." This includes people who are Sub-Saharan African (e.g., Kenyan and Nigerian) or Afro-Caribbean (such as Haitian and Jamaican).
- 4 "Black or African American Populations" http://www.cdc.gov/minorityhealth/populations/remp/Black.html.
- <sup>5</sup> In 2012, the CE survey changed the way that nonrespondents were assigned to a race category by using the racial proportions observed in the latest Decennial Census instead of CE respondents for the probabilities; using racial proportions at the county level instead of at the regional level; and adding tenure information to the county-level proportions. Source: <a href="https://www.bls.gov/osmr/pdf/st130100.pdf">https://www.bls.gov/osmr/pdf/st130100.pdf</a>.
- <sup>6</sup> Households in which the reference person identified as mixed-race were not included. Also, note that although the reference person has identified as Black, it is possible that spouse, children, and other family members can be of a different or additional race.
- <sup>7</sup> Table 2100. Race of reference person: Annual expenditure means, shares, standard errors, and coefficient of variation, Consumer Expenditure Survey, 2012. <a href="https://www.bls.gov/cex/2012/combined/race.pdf">https://www.bls.gov/cex/2012/combined/race.pdf</a>.

Also see Table 2100. Race of reference person: annual means, standard errors and coefficient of variation, Consumer Expenditure Survey, 2011. <a href="https://www.bls.gov/cex/2011/stnderror/race.pdf">https://www.bls.gov/cex/2011/stnderror/race.pdf</a>.

See also Table 2100. Race of reference person: annual means, standard errors and coefficient of variation, Consumer Expenditure Survey, 2010. <a href="https://www.bls.gov/cex/2010/stnderror/race.pdf">https://www.bls.gov/cex/2010/stnderror/race.pdf</a>.

- <sup>8</sup> This also includes a unit that could be located in the basement, attic, second floor, or over the garage of a single-family detached unit. *Interview Data Dictionary*, P77. August 30, 2013.
- 9 Poverty thresholds for 2012 by size of family and number of related children under 18 years: U.S. Census Bureau.
- 10 Lower bounds and means for the All United States-household tabulations were approximated as the average for the 3 years, weighted by their respective proportional populations. Sources: Table 1101. Quintiles of income before taxes: Annual expenditure means, shares, standard errors, and coefficient of variation, Consumer Expenditure Survey, 2012. <a href="https://www.bls.gov/cex/2012/combined/quintile.pdf">https://www.bls.gov/cex/2012/combined/quintile.pdf</a>.

Also see Table 1101. Quintiles of income before taxes: annual means, standard errors and coefficient of variation, Consumer Expenditure Survey, 2011 <a href="https://www.bls.gov/cex/2011/stnderror/quintile.pdf">https://www.bls.gov/cex/2011/stnderror/quintile.pdf</a>.

See also Table 1101. Quintiles of income before taxes: annual means, standard errors and coefficient of variation, Consumer Expenditure Survey, 2010 <a href="https://www.bls.gov/cex/2010/stnderror/quintile.pdf">https://www.bls.gov/cex/2010/stnderror/quintile.pdf</a>.

- <sup>11</sup> All of the dollar comparisons between the low-income and high-income Black households in the sample were statistically significant except for the difference in the Tobacco and smoking supplies expenditures.
- 12 A detached home is defined as a structure with only one primary residence; however, the structure could include a rental unit(s) in the basement, attic, etc.) Interview Data Dictionary. P77. August 30, 2013.
- 13 The difference in these real values is not statistically significant.
- 14 Based on an article from the World Health Organization, the poor spend a larger proportion of their income on tobacco than do richer households. "Tobacco and Poverty: A Vicious Circle" <a href="http://www.who.int/tobacco/communications/events/wntd/2004/en/wntd2004">http://www.who.int/tobacco/communications/events/wntd/2004/en/wntd2004</a> brochure en.pdf.

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