Dynamics of Economic Well-Being: Poverty, 2013–2016

Current Population Reports

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INTRODUCTION

This report presents data on poverty based on information collected in the Survey of Income and Program Participation (SIPP). The report describes patterns of poverty using measures with different time horizons and provides a dynamic view of the duration of poverty spells and the frequency of transitions into and out of poverty. It further examines how poverty dynamics vary across demographic groups. The report focuses on data collected in the 2014 Panel of the SIPP covering January 2013 through December 2016.¹

The SIPP allows policymakers, academic researchers, and the general public to observe a more detailed portrait of poverty than the one provided by the official annual poverty estimate. The official annual poverty rate, based on the Current Population Survey Annual Social and Economic Supplement (CPS ASEC), captures a snapshot of well-being at a single point in time. Once a year, the CPS ASEC measures the percentage of people whose annual money incomes fall below their official poverty threshold, but the CPS ASEC does not address how poverty varies across shorter or longer time periods, or how an individual's poverty status may change over time. Longitudinal research finds poverty rates vary by the period examined—a smaller fraction of people are in poverty for more than 1 year, while a

¹ All comparative statements in this report have undergone statistical testing, and, unless otherwise noted, all comparisons are statistically significant at the 10 percent significance level. The U.S. Census Bureau reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied to this release. CBDRB-FY21-SEHSD009-0003. larger percentage of people experience poverty for shorter times. $^{\rm 2}$

HIGHLIGHTS

- From January 2013 through December 2016:
 - The average monthly poverty rate across the 48-month period was 15.2 percent (Table 1).
 - Approximately 34.0 percent of the U.S. population was in poverty for at least 2 months (Figure 3 and Appendix Table 1).
 - The percentage of people in poverty all 48 months was 2.8 percent (Figure 3 and Appendix Table 2).
 - Of all poverty spells, 35.4 percent ended within 6 months (Appendix Table 6).
 - The median length of a given poverty spell was 11.1 months (Table 3).
 - It is estimated that 24.3 percent of poverty spells experienced by Blacks lasted at least 24 consecutive months. In contrast, 16.1 percent of poverty spells experienced by non-Hispanic Whites lasted 24 consecutive months or longer³ (Figure 9 and Appendix Table 8).



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² Examples of previous longitudinal studies are available in the "Other Longitudinal Studies" section at the end of this report.

³ Federal surveys, including the SIPP, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone," or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method. Additionally, Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

- Among individuals in annual poverty in 2013, 27.5 percent were still in poverty in 2016 (Table 2).
- In 2013, 21.9 million people had annual income below 50 percent of their annual poverty threshold. In 2016, 25.9 percent of these individuals still had incomes below 50 percent of their annual poverty threshold, while 27.3 percent of these individuals had incomes above 200 percent of their annual poverty threshold (Figure 6 and Appendix Table 5).

MEASURING POVERTY USING THE SIPP

The SIPP collects information on the short-term dynamics of employment, income, household composition, and eligibility and participation in government assistance programs.

It is a leading source of information on specific topics related to economic well-being, family dynamics, education, wealth and assets, health insurance, child care, and food security. The population represented in the SIPP is the civilian noninstitutionalized population of the United States.

Poverty statistics presented in this report adhere to the standards specified by the Office of Management and Budget's Statistical Policy Directive 14. The Census Bureau uses a set of money income thresholds that vary by family size and composition to determine who is in poverty. If a family's total income is less than that family's threshold, then that family and every individual in it are considered to be in poverty. The poverty thresholds do not vary geographically. They are updated annually to reflect changes

SIPP DATA AVAILABILITY

The Survey of Income and Program Participation (SIPP) is designed as a series of longitudinal panels. Data from the SIPP can be used cross-sectionally by looking at individual reference months within a single wave, or longitudinally by following individuals as they are interviewed in successive waves across the panel.

This report uses data from the 2014 SIPP Panel. The 2014 SIPP Panel collected data over the course of four 12-month waves, covering 48 reference months from January 2013 through December 2016. At the end of each wave respondents were asked to provide monthly data covering the previous year highlighting changes in household and family composition and economic circumstances over time. The data in this report include all 48 months of data collected from Waves 1 through 4 of the 2014 Panel covering calendar years 2013–2016.

in the cost of living using the Consumer Price Index for All Urban Consumers (CPI-U).⁴

Since SIPP respondents are asked about their income over the previous year, each month's poverty status is determined by comparing monthly income to the appropriate monthly poverty threshold. Monthly thresholds are calculated by multiplying the base-year annual poverty thresholds by an inflation factor relevant to the reference month, and then dividing the calculated annual threshold by 12.

This report discusses poverty rate estimates for different periods, measures the length of time people remain poor, and follows the movement of people into and out of poverty. Estimates are compared across various demographic groups such as sex, race, Hispanic origin, age, family status, and educational attainment.⁵ The poverty measures discussed include monthly, annual, episodic, and chronic poverty rates. To capture changes in poverty status over time, the report examines the persistence of annual poverty, the movement of people across income-to-poverty ratio groupings, the duration of poverty spells, and the poverty survival rate. Refer to the "Poverty Measures Used in This Report" text box for a detailed description of each measure.

RESULTS

Monthly Poverty Rates

Figure 1 presents overall monthly poverty rates for the 2013–2016 period. Monthly poverty rates serve as a valuable supplement

⁴ Additional information on how the Census Bureau measures poverty is available at <www.census.gov/topics /income-poverty/poverty/guidance /poverty-measures.html>.

⁵ In order to maintain consistency with earlier Census Bureau reports examining poverty dynamics, this report uses demographic data from January at the start of the reference period (for nonmonthly estimates). Future reports examining poverty dynamics may choose to use demographic data from December, given that annual weights from the 2014 Panel use December as a reference month and December is closer to the interview date.

POVERTY MEASURES USED IN THIS REPORT

Monthly Poverty Rate	Percentage of people in poverty in a given month using monthly
	income and a monthly threshold.
Episodic Poverty Rate	Percentage of people in poverty for 2 or more consecutive months.
Average Monthly Poverty Rate	Average percentage of people in poverty using monthly income and a monthly threshold over a given reference period—in this case, it is calculated by dividing the average number individuals with monthly income below their monthly poverty thresholds across all 48 months of the 4-year panel by the average monthly population across the 4-year panel.
Chronic Poverty Rate	Percentage of individuals in poverty every month of a given reference period. Chronic poverty over an annual period includes individuals who have been in poverty for all 12 months, while chronic poverty over the panel refers to individuals in poverty all 48 months of the 4-year period.
Annual Poverty Rate	Percentage of individuals in poverty in a calendar year. Each indi- vidual's annual poverty status is calculated by comparing the sum of monthly family income over the year to the sum of monthly poverty thresholds for the year. ¹
Income-to-Poverty Ratio	An individual's family income divided by the family's assigned poverty threshold. Individuals with an income-to-poverty ratio below 1 are officially considered to be in poverty. Additionally, individuals with an income-to-poverty ratio of 1.0 to 1.5 are sometimes referred to as near-poor and individuals with an income-to-poverty ratio of 0.0–0.5 are sometimes referred to as being in deep poverty.
Length of Poverty Spell	Number of months in poverty. The minimum spell length is 2 months and spells are separated by 2 or more months of not being in poverty. Individuals can have more than one spell of poverty over the reference period. Spells underway in the first interview month of the panel are excluded.
Poverty Survival Rate	Percentage of poverty spells continuing to persist (survive) a length of time. The survival curve represents the percentage of individuals who stay consistently in poverty across months.

¹ As annual poverty thresholds in SIPP are a sum of an individual's monthly thresholds across the year, annual thresholds in SIPP uniquely reflect an individual's changing family composition throughout the year. This methodology used to calculate annual poverty using the SIPP differs from the methods used for cross-sectional surveys such as the American Community Survey (ACS) and Current Population Survey Annual Social and Economic Supplement (CPS ASEC). As a result of this and other differences across surveys, annual poverty rate estimates in the SIPP differ from official poverty estimates based on the CPS ASEC. Additional discussion on how calculating annual poverty using the SIPP can be different from other surveys can be found in Abinash Mohanty, "Poverty Dynamics: An Overview of Longitudinal Poverty Estimates Produced by the United States Census Bureau," SEHSD Working Paper 2019-38, U.S. Census Bureau, Washington, DC, 2019.

to estimates of annual poverty rates. While annual poverty rates reflect longer-term income deficits, monthly poverty rates reflect more frequent short-term income deficits. Across 2013–2016, the monthly poverty rate (adjusted to remove the short-month effect) declined from 17.7 percent in

January 2013 to 13.3 percent in December 2016.⁶

Figure 2 presents monthly poverty rates from January 2013 through December 2016 across age groups. Considering only the poverty rates adjusted to remove the short-month effect, children under the age of 18 had higher monthly poverty rates than adults aged 18 to 64 for every month across the 4 years, while adults aged 65 and older consistently had lower monthly poverty rates

⁶ The "short-month effect removed" monthly poverty rates were produced using weights that have not been adjusted for short-month effect. Beginning with the 2018 SIPP Panel, these weights have been adjusted. For additional information about the short-month effect please reference the "The Short-Month Effect" text box.





than the other major age categories. Across 2013–2016, monthly poverty rates for adults aged 18 to 64 declined from 17.2 percent in January 2013 to 12.9 percent in December 2016, while the monthly poverty rate for adults aged 65 and older declined from 7.9 percent in January 2013 to 6.2 percent in December 2016. Monthly poverty rates for individuals under age 18 declined from 24.7 percent in January 2013 to 19.3 percent in December 2016.

Average Monthly Poverty Rates

While monthly poverty rates are calculated individually each month, average monthly poverty rates provide a summary measure of the number and percentage of people who experienced poverty during a given period. The poverty average rates are calculated by dividing the average of the number of individuals in monthly poverty over a period by the average of the monthly population of individuals over that period.

As shown in Table 1, the average monthly poverty rate over the 2013-2016 period was 15.2 percent. Non-Hispanic Whites had a lower average monthly poverty rate (11.4 percent) than Blacks and Hispanics, while the difference between the average monthly poverty rates for Blacks (23.3 percent) and Hispanics (23.2 percent) were not statistically significant.

The average monthly poverty rate for females (16.4 percent) was 2.4 percentage points higher than the average monthly poverty rate for males (14.0 percent).

From January 2013 through December 2016, the average monthly poverty rate for individuals in married-couple families (7.1

THE SHORT-MONTH EFFECT

In the 2014 SIPP Panel (covering 2013–2016), poverty rates are sensitive to the number of days in a month. Monthly poverty rates in February, a month with 28 or 29 days, are the highest in every year across the 2014 SIPP Panel (Figure 1). This phenomenon, referred to as the "short-month effect," stems from the fact that poverty thresholds and nonearnings income are calculated not regarding the number of days in a month, while monthly earnings vary based on month duration. The 2018 SIPP Panel ended the short-month effect by creating a new earnings measure. This new measure is days-in-month invariant in an attempt to better capture fluctuating economic conditions without the influence of the number of days in a month. This is similar to how monthly poverty was calculated in SIPP panels prior to 2014.

The monthly poverty figures in this report (Figures 1 and 2) include both the original monthly poverty rate, labeled as "short-month effect present," and monthly poverty rates adjusted to remove the effect of month-length, labeled as "short-month effect removed." When discussing monthly poverty rates this report will focus on the "short-month effect removed" time series, as this measure better represents genuine economic fluctuations.¹

The other figures and tables shown in this report are not adjusted to have the short-month effect removed.

percent) was the lowest average poverty rate among family types. In contrast, individuals in femalehouseholder families had the highest average poverty rate (32.8 percent).⁷

Among major age groups, children under the age of 18 had the highest average monthly poverty rate (21.9 percent) over the 2013–2016 period. Those aged 65 and above had the lowest poverty rate (7.1 percent).

Average monthly poverty rates decline with education.⁸ Individuals without a high school diploma had the highest average monthly poverty rate (26.0 percent) among educational attainment groups. In comparison, the average monthly poverty rate for individuals with a bachelor's degree or higher was 5.7 percent.

¹ Previous reports released by the U.S. Census Bureau providing monthly poverty rates in the 2014 SIPP Panel (e.g., "Monthly and Average Monthly Poverty Rates by Selected Demographic Characteristics: 2013," "Monthly and Average Monthly Poverty Rates by Selected Demographic Characteristics: 2014," and "Monthly and Average Monthly Poverty Rates by Selected Demographic Characteristics: 2015") do not include poverty rates adjusted to remove the shortmonth effect.

⁷ "Female householders" refer to female householders, who have no spouse present; "male householders" refer to male householders, who have no spouse present.

⁸ Statistics referencing educational status in this report are restricted to individuals aged 25 and older.

Table 1. Average Monthly Poverty by Selected Characteristics: 2013–2016

(Numbers in thousands)

			In pove	erty	
Characteristic	Total	Number	90 percent C.I. ¹ (±)	Percent	90 percent C.I. ¹ (±)
All people	313,637	47,813	1,012	15.2	0.4
Sex	453.035	01 50 4		110	0.4
Male	153,275 160,362	21,504 26,309	537 613	14.0 16.4	0.4 0.4
Race and Hispanic Origin ^{2, 3}					
White	242,908	33,617	879	13.8	0.4
White, non-Hispanic	192,953	21,994	666	11.4	0.4
Black	40,741	9,508	422	23.3	1.1
Hispanic	55,002	12,770	591	23.2	1.1
Non-Hispanic	258,635	35,043	746	13.5	0.4
Age					
Under 18 years	72,657	15,890	540	21.9	0.8
18 to 64 years	195,265	28,680	564	14.7	0.3
65 years and over	45,715	3,243	152	7.1	0.3
Family Status					
In married-couple families	189,154	13,453	717	7.1	0.4
In families with a male householder,		4 979		17.0	
no spouse present	9,749	1,678	163	17.2	1.6
In families with a female householder, no spouse present	53,190	17,441	615	32.8	1.0
Unrelated individuals	61,544	15,241	373	24.8	0.5
	01,044	10,241	373	24.0	0.0
Educational Attainment					
Total, aged 25 and older	210,850	24,856	516	11.8	0.3
No high school diploma	24,243	6,314	268	26.0	0.9
High school, no college	59,216	8,320	273	14.1	0.4
Some college, no degree	57,446	6,207	254 179	10.8 5.7	0.4 0.3
Bachelor's degree or higher	69,946	4,015	1/9	5./	0.3

¹ A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

² Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method.

³ Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

Note: More information on confidentiality protection and sampling and nonsampling error is available at <www.census.gov/programs-surveys/sipp.html>.

Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panel.

Episodic Poverty

Episodic poverty rates by demographic characteristics are shown in Appendix Table 1 and Figure 3. Over the 48-month period from January 2013 through December 2016, 34.0 percent of individuals experienced episodic poverty, defined as a poverty spell lasting 2 or more consecutive months. Non-Hispanic Whites had a lower episodic poverty rate (27.0 percent) than Blacks and Hispanics, while the episodic poverty rate for Blacks (46.5 percent) was not significantly different from the Hispanic episodic poverty rate (48.6 percent).

Similar to what was seen in other poverty statistics, the episodic poverty rate for females (35.4 percent) was higher than the episodic poverty rate for males (32.4 percent).

Episodic poverty rates decrease with age; children under 18 years old had an episodic poverty rate of 44.0 percent, while adults 65 years and over had an episodic poverty rate of 15.8 percent.



Similar to what is seen in many other poverty estimates, the episodic poverty rate for people in female-householder families (57.0 percent) exceeded the episodic poverty rates for people in other family types. In comparison, married-couple families had the lowest episodic poverty rate (22.8 percent) across all family types.

Following a pattern seen with other poverty rates, episodic poverty rates decline with additional education. For example, individuals without a high school diploma had a substantially higher poverty rate (51.1 percent) than individuals with a high school diploma who did not attend college (32.1 percent).

Chronic Poverty

Chronic poverty rates, the percentage of people in poverty every month over the 48-month period spanning January 2013 through December 2016, are shown in Figure 3 and Appendix Table 2. Over the 48-month period spanning 2013 through 2016, 2.8 percent of individuals were considered chronically poor.

Non-Hispanic Whites had a lower chronic poverty rate (1.7 percent) than Hispanics and Blacks (5.1 percent and 5.6 percent, respectively).⁹

Similar to what was seen in episodic poverty, the chronic poverty rate of females (3.3 percent) was higher than the chronic poverty rate for males (2.3 percent).

As with episodic poverty rates, children had the highest chronic poverty rate among age groups (4.6 percent), while adults aged 65 and over (1.5 percent) had the lowest.

Similar to episodic poverty, the chronic poverty rate for people in female-householder families (7.9 percent) was higher than rates for people in other family types.

Following the trend seen across many poverty estimates, chronic poverty rates declined with additional education. The chronic poverty rate for individuals with a bachelor's degree or higher (0.7 percent) was the lowest across educational attainment groups.

Proportion of Episodically Poor Who Were Chronically Poor

Individuals in chronic poverty are a subset of those in episodic poverty, as persons in episodic poverty have a poverty spell lasting 2 or more consecutive months, while persons in chronic poverty are poor all months of an observed period. Appendix Table 3 and Figure 4 show the proportion of the episodically poor who are also categorized as in chronic poverty over the 2013–2016 period. This proportion is a useful metric to compare the relative chances of exiting poverty.

Overall, 8.2 percent of episodically poor individuals were also chronically poor over the 2013-2016 period. Individuals 25 and older without a high school diploma, Blacks, and individuals in femalehouseholder families were among the groups with the highest proportion of episodically poor who were also chronically poor (14.2 percent, 12.1 percent, and 13.8 percent, respectively).¹⁰ The demographic group with the smallest proportion of episodically poor who were also chronically poor was individuals in families with a male householder (1.7 percent).

While individuals 65 years and over had chronic and episodic poverty rates significantly lower than the other age groups, the proportion of episodically poor who were also chronically poor in this population (9.2 percent) was not significantly different from what was seen for children aged 18 and under (10.3 percent) or adults aged 18 to 64 (7.1 percent).

Annual Poverty Rates

Appendix Table 4 and Figure 5 provide annual poverty rates across the 2013-2016 period." Significant differences in the annual poverty rate from the previous year are indicated by asterisks on Appendix Table 4, while significant differences in the annual poverty rate between the 2013 and 2016 years are indicated by carets. Figure 5 also contains ACS and CPS ASEC annual poverty rates for comparison.

Overall, the number of individuals in annual poverty declined 22.8 percent, moving from 50.1 million individuals in 2013 to 38.7 million individuals in 2016.¹² There was a decrease in poverty rates over the 2013 to 2016 period across all demographic groups, except individuals in male householder

⁹ There was not a statistically significant difference between chronic poverty rates for Hispanics and Blacks over the 2013–2016 period.

¹⁰ There was no significant difference in the proportion of episodically poor who were also chronically poor among Blacks, individuals in female-householder families, and individuals 25 and older without a high school diploma.

¹¹ The methodology used to calculate annual poverty using SIPP data differs from what is used by other Census Bureau survevs such as the CPS ASEC. For example. annual poverty thresholds in SIPP are calculated by summing an individual's monthly poverty thresholds across a year. This results in annual poverty thresholds in SIPP reflecting an individual's changing family dynamics throughout the year. Additional information on how annual poverty is calculated using SIPP data is available in Abinash Mohanty, "Poverty Dynamics: An Overview of Longitudinal Poverty Estimates Produced by the United States Census Bureau," SEHSD Working Paper 2019-38, U.S. Census Bureau, Washington. DC 2019. available at <www.census.gov/content /dam/Census/library/working-papers/2019 /demo/SEHSD-WP2019-38.pdf>.

¹² The Wave 1 effect may be influencing the 2013 SIPP poverty rate. Additional information on the Wave 1 effect can be found in the "Limitations" section of this report.





families.¹³ Over the 4-year period, the number of Hispanics in poverty declined from 14.1 million individuals to 9.7 million individuals (or 31.1 percent). This decline was significantly larger than what was seen across all other demographic groups, except individuals in married-couple families. The number for that group declined 27.3 percent, moving from 13.8 million individuals in poverty in 2013 to 10.0 million individuals in poverty in 2016.

For 2013, the SIPP annual poverty rate was higher than its CPS ASEC and ACS counterparts. However, this relationship changes over the 2014–2016 period, where SIPP annual poverty rates were not significantly different from CPS ASEC poverty rates, and ACS poverty rates were above SIPP poverty rates.

Persistence of Annual Poverty

Table 2 provides the percentage of individuals who were categorized as in annual poverty in 2013 and who remained in annual poverty across each subsequent year from 2014 through 2016. Of the 46 million individuals in annual poverty in 2013, approximately 27.5 percent were still in annual poverty in 2016. Among those in poverty in 2013, Blacks, children under 18 years old, individuals 25 and older without a high school diploma, and individuals in female-householder families had the largest percentages persistently in poverty in

2016 (36.2 percent, 34.1 percent, 34.5 percent, and 34.4 percent, respectively).¹⁴

Movement of Individuals Across Income-to-Poverty Ratios

Appendix Table 5 and Figure 6 provide the movement of people across income-to-poverty ratio groups across the 2013 to 2016 period. The income-to-poverty ratio is calculated by dividing an individual's family income by their assigned poverty threshold.¹⁵ Excluding the top and bottom income-to-poverty ratio categories, individuals were more likely to experience upward income-to-poverty ratio mobility than downward mobility from 2013 to 2016. Within the shown income-to-poverty ratio categories, individuals that had an income-to-poverty ratio between 150.0 to 199.9 percent were most likely to move to a lower income-to-poverty ratio group in 2016. Conversely, 89 percent of individuals with an income-topoverty ratio above 200 percent remained in the same group in 2016.

Duration of Poverty Spells

Appendix Table 6 shows the distribution of poverty spell lengths for the total population over the course of the 2013-2016 period.¹⁶

¹³ The 2013 annual poverty rate for families with a male householder was not significantly different from the 2016 rate.

¹⁴ There was not a statistically significant difference in the percentage of Blacks, individuals in female-householder families, and children under the age of 18 who were still in annual poverty in 2016.

¹⁵ In the case of unrelated individuals (i.e., individuals not residing with family members), the family income is simply their individual income.

¹⁶ Refer to the "Poverty Measures Used in this Report" text box for the definition of poverty spell length. An individual is counted more than once if they had multiple spells. Analysis excludes spells beginning on or before January 2013 (leftcensored spells) but includes spells ending on or after December 2016 (right-censored spells). Refer to the limitations in the appendix for a more detailed explanation of censored spells.

Table 2. Persistence of Annual Poverty: 2013-2016¹

(Numbers in thousands)

		201	4	201	15	201	6
Characteristic	Number in poverty in 2013	Percent still in poverty	90 percent C.I.² (±)	Percent still in poverty	90 percent C.I.² (±)	Percent still in poverty	90 percent C.I.² (±)
All people	46,037	60.0	2.1	*38.9	2.1	*27.5	1.9
Sex Male	20,256	57.1	2.7	*36.0	2.5	*24.9	2.1
Female	25,781	62.3	2.1	*41.2	2.3	*29.5	2.2
Race and Hispanic Origin ^{3, 4}							
White		57.7	2.6	*37.5	2.7	*25.2	2.1
White, non-Hispanic	· · · ·	54.3	3.1	*35.8	3.4	*24.1	2.7
Black	9,936	70.0	4.2	*44.9	5.7	*36.2	5.4
Hispanic		63.9	5.1	*40.6	3.9	*27.4	3.2
Non-Hispanic	32,861	58.4	2.4	*38.2	2.6	*27.5	2.3
Age							
Under 18 years	· · · ·	67.0	3.4	*46.8	3.5	*34.1	3.2
18 to 64 years	· · · ·	56.8	2.2	*34.9	2.1	*23.8	1.8
65 years and over	2,394	51.3	5.0	*35.0	4.9	*27.6	5.0
Family Status							
In married-couple families	13,055	49.3	4.6	*29.1	4.7	*19.8	3.8
In families with a male householder,	1 507	74.0	10.0	*27.6	10.0	*16.3	8.3
no spouse present In families with a female householder,	1,587	34.8	10.9	27.0	10.0	10.5	8.5
no spouse present	17,215	70.7	4.0	*47.1	3.8	*34.4	3.7
Unrelated individuals	14,180	59.7	2.6	*39.3	2.7	*27.4	2.4
Educational Attainment							
Total, aged 25 and older	23,536	56.6	2.1	*36.7	2.0	*26.4	1.8
No high school diploma		65.4	3.6	*45.9	3.6	*34.5	3.4
High school, no college		56.4	3.6	*37.7	3.6	*27.2	3.1
Some college, no degree		53.7	4.5	*31.2	3.9	*20.7	3.4
Bachelor's degree or higher	3,440	43.7	5.9	*24.8	4.4	*17.1	3.8

* Indicates a statistically significant difference in percent still in poverty from previous year.

¹ The 2013–2016 estimates require respondents to be in sample all 48 months.

² A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

³ Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method.

⁴ Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

Note: More information on confidentiality protection and sampling and nonsampling error is available at <</td><www.census.gov/programs-surveys/sipp.html>.

Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panel.

Poverty spell lengths show how many consecutive months an individual is categorized as in monthly poverty. Entering a poverty spell requires 2 consecutive months in poverty and exiting requires 2 consecutive months out

of poverty. Similar to trends in episodic and chronic poverty rates, the distribution of spell lengths indicates that most individuals experience relatively short spells of poverty. Over the period from January 2013 through December 2016, approximately 35.4 percent of poverty spells lasted between 2 and 6 months, 32.4 percent of spells lasted between 7 and 12 months, 8.1 percent of spells



lasted between 13 and 18 months, and 7.1 percent of spells lasted between 19 and 24 months.¹⁷ Cumulatively, 83.0 percent of all spells lasted 2 years or less. Additionally, 12.0 percent of

poverty spells lasted longer than 42 months.¹⁸

¹⁸ If spells underway in January 2013 (left-censored spells) are included in the analysis, the distribution shifts to the right: 23.5 (\pm 1.4) percent of spells lasted 2 to 6 months, 18.1 (\pm 1.5) percent lasted between 7 and 12 months, 23.4 (\pm 1.5) percent lasted between 13 and 18 months, 5.8 (\pm 0.9) percent lasted between 18 and 24 months, 29.3 (\pm 1.6) percent of spells continued more than 24 months, and 14.5 (\pm 1.5) percent lasted more than 42 months. There is no significant difference from including leftcensored spells in the frequency of spells lasting 19 to 24 months and spells lasting more than 42 months. Table 3 presents median spell lengths by demographic characteristics measured at the beginning of each spell. Median poverty spell length is the point in the distribution at which half of all spells are shorter and half of all spells are longer.

From 2013–2016, the median length of a poverty spell for the overall population was 11.1 months.¹⁹ Unlike many of the other poverty estimates, in which female estimates were often higher than male estimates, the median spell length for males (11.0 months) was not statistically different from the median spell length for females (11.1 months).

The median spell length for non-Hispanic Whites (10.5 months) was shorter than the median spell lengths for Blacks (12.2 months). However, in contrast with trends shown in episodic and chronic poverty rates, there was no significant difference in spell lengths between non-Hispanic Whites and Hispanics (10.5 months and 11.2 months, respectively).²⁰

Individuals in married-couple households had the shortest median spell length (9.5 months) among family types.

¹⁷ There was not a statistically significant difference between the percentage of spells that lasted 13 to 18 months and those that lasted 19 to 24 months.

 $^{^{19}}$ If spells underway in January 2013 (left-censored spells) are included in the analysis, then the median spell length would be 12.5 (± 0.1) months.

²⁰ There was not a statistically significant difference between the median spell length of Blacks and Hispanics.

Table 3. Median Poverty Spell Length: 2013-2016

Characteristic	-2013 (excludes spell January	s underway in
characteristic	Median spell	
	length (months)	90 percent C.I.(±) ¹
All people	11.1	0.6
Sex		
Male	11.0	0.7
Female	11.1	0.7
Race and Hispanic Origin ^{2, 3}		
White		0.9
White, non-Hispanic		0.9
Black	12.2	0.4
Hispanic	11.2	1.9
Non-Hispanic	11.0	0.7
Age		
Under 18 years		0.8
18 to 64 years		0.6
65 years and over	12.4	0.1
Family Status		
In married-couple families In families with a male householder,	9.5	1.0
no spouse present	11.1	2.6
In families with a female householder,		2.0
no spouse present	12.1	0.7
Unrelated individuals	11.9	0.6
Educational Attainment		
Total, aged 25 and older		0.5
No high school diploma		0.3
High school, no college	11.7	0.6
Some college, no degree	10.0 9.8	0.8
Bachelor's degree or higher	9.8	1.3

¹ A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

² Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method.

³ Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

Note: More information on confidentiality protection and sampling and nonsampling error is available at <www.census.gov/programs-surveys/sipp.html>.

Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panel.

Although adults aged 65 years and over had lower episodic and chronic poverty rates than children under the age of 18 and adults aged 18 to 64, adults aged 65 and over had a longer median poverty spell length (12.4 months) than adults aged 18 to 64 (10.1 months) and a median spell length that was not statistically different from children under 18 years (11.8 months).²¹

Among educational attainment groups, individuals with no high

school diploma and individuals with only a high school diploma had the longest median poverty spell lengths (12.3 months and 11.7 months, respectively).²² Individuals with a bachelor's degree or higher and those who have some college education had the shortest median poverty spell lengths (9.8 months and 10.0 months, respectively).²³

Poverty Survival Curve

Figure 7 shows the overall poverty survival curve across the 2013-2016 period.²⁴ The poverty survival curve represents the percentage of individuals who stay in poverty across months. For example, Figure 7 shows approximately 23.2 percent of individuals stayed in poverty for at least 20 months and 12.3 percent of individuals remained in poverty for at least 38 months.²⁵ Entering a spell requires 2 consecutive months at a level of poverty, and exiting

²³ Among individuals 25 years and older, there was no statistical difference in median spell length for those with a bachelor's degree and those who have only some college education.

²⁴ Survival curves using the 2008 SIPP Panel can be found in Ashley Edwards, "Measuring Single-Year Poverty Transitions: Opportunities and Limitations," SEHSD Working Paper FY2015-19, available at <www.census.gov /content/dam/Census/library/working -papers/2015/demo/SEHSD-WP2015-19 .pdf>.

 $^{\rm 25}$ The large decrease in the poverty survival rate seen at 13 months may be partially influenced by SIPP's 12-month recall period, which may result in a large number of transitions in income being reported at the start of each 12-month wave. Further discussion of this phenomenon, known as the "seam effect," can be found in the limitations section of this report, and in Ashlev Edwards and Lewis H. Warren, "Poverty Dynamics in the 2014 Survey of Income and Program Participation," SEHSD Working Paper 2017-52, available at <www.census.gov/content/dam /Census/library/working-papers/2017 /demo/SEHSD-WP2017-52.pdf>.

²¹ The median spell length of adults aged 18 to 64 (10.1 months) was significantly higher than the median spell length for children under age 18 (11.8 months).

²² Among individuals 25 years and older, there was no statistical difference in median spell length for those with no high school diploma and those with only a high school diploma.



the spell requires 2 consecutive months out of the level of poverty. As a result, the first 2 months of a poverty survival cure always show 100.0 percent survival.

Poverty Survival Rates by Sex

Figure 8 and Appendix Table 7 compare the survival curves of poverty spells by sex over the 2013-2016 period. Unlike what was seen in chronic and episodic poverty rates, there was no significant difference between the male and female poverty survival curves. Approximately 61 percent of male and female poverty spells lasted 8 months, while approximately 23 percent lasted 20 months. About 12 percent of male and female poverty spells lasted 40 months.

Poverty Survival Rates by Race and Ethnicity

Figure 9 and Appendix Table 8 compare survival curves of

poverty spells across selected racial and ethnic groups over the 2013-2016 period. The survival curves for non-Hispanic Whites and Hispanics were quite similar, with Hispanics having a survival rate higher than non-Hispanic Whites only for spells lasting 24 to 30 months. In contrast, the survival rates for Blacks were significantly higher than the survival rates for non-Hispanic Whites for about half of the poverty spell lengths examined.²⁶ Additionally, the survival rates for Blacks were above the survival rates for Hispanics for several poverty spells lengths under 2 years.²⁷

Poverty Survival Rate at Different Levels of Poverty

Figure 10 and Appendix Table 9 compare survival curves of spells at different levels of poverty over the 2013 through 2016 period. Each line in Figure 10 shows the survival curve for a given incometo-poverty ratio group. Over the 2013-2016 period, 52.0 percent of individuals with an income-topoverty ratio below 50.0 percent stayed at this level of poverty for at least 8 months. In contrast, 62.1 percent of individuals who had an income-to-poverty ratio below 125.0 percent stayed at this level of poverty for at least 8 months. Among those below the official poverty threshold, 60.7 percent had a poverty spell lasting at least 8 months.28

²⁶ For poverty spells lasting 3 months and 6 to 29 months, the Black survival rate was significantly above the Non-Hispanic White survival rate.

²⁷ For poverty spells lasting 7 to 10 months, 13 to 16 months, and 18 to 19 months, the Black survival rate was significantly above the Hispanic survival rate.

²⁸ The 8-month survival rate of poverty spells determined at 100 percent and 125 percent of poverty thresholds were not statistically different.







Across all levels of poverty, the survival rate of spells lasting at least 20 months was substantially lower than what was seen at 8 months. About 15.6 percent of individuals with an income-topoverty ratio below 50.0 percent stayed at this level of poverty for at least 20 months. In contrast, the 20-month survival rate for individuals who had income-topoverty ratio below 125.0 percent was 26.9 percent. Among those below the official poverty threshold, the 20-month survival rate was 23.2 percent.

Across all the levels of poverty examined, less than 16.0 percent of spells survived at least 40 months. Only 7.1 percent of individuals who had an incomepoverty-ratio below 50.0 percent stayed at this level of poverty at least 40 months, while the 40-month survival rate for individuals who had an income-topoverty ratio below 125.0 percent was 13.4 percent. Among those below the official poverty threshold, the 40-month survival rate was 12.3 percent.²⁹

SUMMARY

Monthly poverty over the 2013-2016 period declined from 17.7 percent in January 2013 to 13.3 percent in December 2016. The average monthly poverty rate over this time was 15.2 percent.

Overall annual poverty declined from 16.3 percent in 2013 to 12.3 percent in 2016. Approximately 27.5 percent of the individuals in annual poverty in 2013 were still in annual poverty in 2016. From 2013 to 2016, among individuals that fell within the incometo-poverty ratio categories below "above 200.0 percent" (under 50.0 percent, 50.0 percent-99.9 percent, 100.0 percent-149.9 percent, and 150.0 percent-199.9 percent), a larger portion of individuals experienced upward income-to-poverty ratio mobility rather than downward mobility. For individuals with an income to poverty ratio above 200.0 percent in 2013, 89 percent remained in the same group in 2016.

A comparison of poverty rates measured at varying intervals provides a complex picture of poverty. For most people who entered poverty, it was a transitory state rather than a longerterm state and most poverty spells were short. During the 48 months from January 2013 through December 2016, 34.0

²⁹ The 40-month survival rate of poverty spells determined at 100 percent and 125 percent of poverty thresholds were not statistically different.

percent of people experienced at least one poverty spell lasting at least 2 months. However, 35.4 percent of all poverty spells ended within 6 months and only 17.1 percent of poverty spells lasted more than 2 years. Only 2.8 percent of people had a poverty spell that lasted the entire 4-year period.

Analysis of poverty over differing time horizons also highlights differences in poverty between Hispanics and Blacks. For the first 3 years (2013-2015) of the 2014 SIPP Panel, there was no significant difference in annual poverty rates for Hispanics and Blacks. However, over the period from 2013-2016, Hispanics were less likely than Blacks to stay 4 consecutive years in annual poverty.

While the Current Population Survey Annual Social and **Economic Supplement (CPS** ASEC) annual poverty rates have generally shown a decline in elderly poverty rates since the 1960s, the SIPP data provide a more complex picture of the dynamics of poverty for adults 65 years and over.³⁰ Similar to the findings from the CPS ASEC, adults 65 years and over in the 2014 SIPP Panel were less likely than children or adults aged 18 to 64 to be in poverty when measured using standard monthly, annual, episodic, or chronic measures. However, the 2014 SIPP Panel illustrates that once the elderly enter poverty, they have difficulty exiting, as shown by the proportion of elderly who

were in poverty in 2013 and were still in annual poverty in 2016. Furthermore, the median spell duration of the elderly population, 12.4 months, was higher than the median spell length of working-age adults at 10.1 months. Additionally, the proportion of episodically poor adults 65 years and older who were chronically poor (9.2 percent) was not statistically different from what was seen for adults aged 18 to 64 or children under the age of 18 (7.1 percent and 10.3 percent, respectively).

LIMITATIONS

Longitudinal Editing and Longitudinal Analysis

This report measures monthly, annual, and 4-year poverty rates over the period from January 2013 to December 2016. The analysis includes only respondents with a valid weight who were in the poverty universe for the entirety of a given reference period.³¹ The poverty universe excludes unrelated children 14 years old and younger.

This report has certain sample restrictions and makes certain assumptions about the stability of demographic characteristics within a SIPP panel. Estimates in this report hold demographic characteristics constant to the value reported at the beginning of the relevant period. For longitudinal estimates, such as episodic poverty, this report produces agebased poverty estimates by categorizing individuals' ages at the start of the 2014 SIPP Panel's reference period, which was January 2013. In the case of annual poverty estimates, this report produces age-based poverty estimates by categorizing individuals' ages in January of the referenced year. This methodology is used for all demographic characteristics, not just age.

Wave 1 Effect

The "Wave 1 effect" references a pattern historically found in certain SIPP panels in which Wave 1 (2013 in this report) poverty rates in a panel are notably higher than poverty rates in subsequent waves. In Appendix Table 4, a possible Wave 1 effect can be seen in the 2013 poverty rate which is substantially higher than the 2014 poverty rate. Many factors may play into the presence of the Wave 1 effect. One possible reason for the Wave 1 effect could be that respondents are underreporting income in the first wave of a panel, due to a lack of previous exposure to income-related questions in the interview. Another reason could be that higher income individuals are more likely to participate in the survey after the first wave. Additionally, weighting methodologies designed to process survey nonresponse differ between Wave 1 and subsequent waves.³²

Censoring and Spell Analysis

Poverty spells may be left- or right-censored. An individual's poverty spell may be in progress

³⁰ The CPS annual poverty rate for adults 65 years and over declined from 28.5 percent in 1966 to 8.9 percent in 2019, available in Jessica Semega, Melissa Kollar, Emily A. Shrider, and John F. Creamer, "Income and Poverty in the United States: 2019," *Current Population Reports*, Series P60-270, U.S. Census Bureau, Washington, DC, 2020.

³¹ A valid weight has a value above zero. For respondents to be included in a monthly estimate, they must have a valid monthly weight. For respondents to be included in annual estimates, they must have a valid December weight. For respondents to be included in panel-based estimates he or she must have a valid panel weight.

³² Additional discussion of the SIPP Wave 1 Effect can be found at <www.census.gov/library/working-papers /2014/demo/SIPP-WP-269.html>. A brief explanation of the 2014 SIPP's weighting methodology can be found in Section 7.3 of the 2014 SIPP User's Guide at <www.census.gov/content/dam /Census/programs-surveys/sipp /methodology/2014-SIPP-Panel-Users -Guide.pdf>.

before the beginning of the reference period, prior to January 2013 (left-censored), or in progress in December 2016 (right-censored). This analysis used the life table method in the SAS software to include right-censored spells in the estimates of median spell lengths and the duration of poverty spells. The life table method assumes right-censored spells are censored at the midpoint of each interval and the effective sample size of each interval includes only half of the right-censored spells included in the interval. Approximately 35.3 percent of poverty spells were left-censored over the 2013-2016 period. The analysis in this report excludes left-censored spells, since the start time for these spells cannot be determined and few statistical programs and methods have been developed to correct for leftcensoring.33 Excluding leftcensored spells may introduce systematic bias into the median spell and duration analyses.³⁴

Cary, N.C., SAS Inc, 1995, p. 292. ³⁴ A variety of papers discuss how leftcensoring may bias duration analysis and suggest potential corrections: Guang Guo, "Event History Analysis and Left-Truncated Data," in P. Marsden (Ed.), *Sociological Methodology*, Vol. 23, San Francisco: Jossey-Bass, 1993, pp. 217-242; David W. Hosmer and Stanley Lemeshow, "Applied Survival Analysis: Regression Modeling of Time to Event Data," New York: Wiley, 1999; and John Iceland, "The Dynamics of Poverty Spells and Issues of Left Censoring," PCS Research Report Series: No. 97-378, 1997. The conditional probability of exiting a spell in a month *t* is calculated as

$$h(t) = \frac{d_t}{T_t}$$

where d_t is the number of poverty spells ending in month t and T_t is the number of spells that were in progress at the beginning of month t minus half of the spells that were right-censored in the month. The survival rate in month t is then calculated as

$$\hat{S}(t) = \prod_{k=1}^{t-1} (1 - h_k)$$

where $\hat{S}(t)$ is equal to the probability of a poverty spell lasting to month *t*.

The calculation of median poverty spell length, defined as

$$\widehat{M} = t + \frac{S(t) - \frac{1}{2}}{S(t) - S(t+1)}$$

such that S(t) is greater than or equal to 50.0 percent and S(t + 1)is less than 50.0 percent.

Comparing the 2014 SIPP Panel With the 2008 SIPP Panel

The previous iteration of this report, "Dynamics of Economic Well-Being: Poverty, 2009-2011," compared the 2008 SIPP Panel with the 2004 SIPP Panel. Due to

substantial differences in survey design between the panels, this report deliberately does not have comparisons between the 2014 SIPP Panel and the 2008 SIPP Panel. The 2008 SIPP Panel was a 5-year panel survey with interview rotation groups and an interview reference period of 4 months.35 In contrast, the 2014 SIPP Panel was a 4-year panel survey without rotation groups and an interview reference period of 12 months. The difference in the survey design makes it very difficult to make fair comparisons between the two panels. The so-called "seam effect" in the 2008 Panel appears after every fourth month in the 2008 Panel and after every twelfth month in the 2014 Panel. resulting in very different patterns of transitions between the two panels.

"Seam bias" and "recall bias" may have partially contributed to the 2014 Panel having fewer withinyear transitions than the 2008 Panel. Seam bias is the tendency for estimates of change measured across the "seam" between two successive survey administrations to far exceed change estimates measured within a single

³³ Paul D Allison, "Survival Analysis Using the SAS System: A Practical Guide," Cary, N.C., SAS Inc, 1995, p. 292.

³⁵ Refer to the 2008 Panel SIPP Users' Guide for additional information on the structure of the 2008 SIPP Panel available at <https://www2.census.gov/programs -surveys/sipp/guidance/2008-sipp-users -guide.pdf>.

interview.³⁶ Additionally, the longer 12-month reference period in the 2014 Panel versus the 4-month reference period in the 2008 Panel may result in a differing "recall bias" between the two panels, which is the tendency of respondents to have better recollection of events occurring closer to the interview date. These two factors make it very difficult to determine whether statistical differences between the 2014 Panel and 2008 Panel are due to survey design or genuine economic circumstances.

OTHER LONGITUDINAL STUDIES

Examples of previous longitudinal studies on poverty include:

- Anderson, Robin J., "Dynamics of Economic Well-being: Poverty, 2004–2006," Current Population Reports, Series P70-123, U.S. Census Bureau, Washington DC, 2011.
- Bane, Mary Jo and David Ellwood, "Slipping Into and Out of Poverty: The Dynamics of Spells," Journal of Human Resources, 21 1986, 1–23.

- Cellini, Stephanie R., Signe-Mary McKernan, and Caroline Ratcliffe, "The Dynamics of Poverty in the United States: A Review of Data, Methods, and Findings," Journal of Policy Analysis and Management, 27 2008, 577-605.
- Edwards, Ashley, "Dynamics of Economic Wellbeing: Poverty, 2009–2011," Current Population Reports, Series P70-137, U.S. Census Bureau, Washington, DC, 2014.
- Iceland, John, "Dynamics of Economic Well-being: Poverty 1996-1999," Current Population Reports, Series P70-91, U.S. Census Bureau, Washington, DC, 2003.
- McKernan, Signe-Mary and Caroline Ratcliffe, "Transition Events in the Dynamics of Poverty," Urban Institute Research Report, 2002, available at <www.urban.org /url.cfm?ID=410575>.
- Mohanty, Abinash, "Poverty Dynamics: An Overview of Longitudinal Poverty Estimates Produced by the United States Census Bureau," SEHSD Working Paper, 2019-38, U.S. Census Bureau, Washington, DC, 2019.
- Naifeh, Mary, "Dynamics of Economic Well-Being: Poverty, 1993–94: Trap Door? Revolving Door? Or Both?," Current Population Reports, Series P70-63, Washington, DC, 1998.

- Stevens, Ann Huff, "Climbing Out of Poverty, Falling Back In: Measuring the Persistence of Poverty Over Multiple Spells," Journal of Human Resources, 34, 3, 1999, 557–88.
- Stevens, Ann Huff, "The Dynamics of Poverty Spells: Updating Bane and Ellwood," AEA Papers and Proceedings 84, 2, 1994, 34–37.

ACCURACY OF ESTIMATES

Further information on the source of the data and accuracy of the estimates, including standard errors and confidence intervals, is available at <www.census.gov /programs-surveys/sipp /tech-documentation/source -accuracy-statements.html> or by contacting Mahdi S. Sundukchi by e-mail at <mahdi.s.sundukchi @census.gov> or Brice G. Gnahore at <brice.g.gnahore@census.gov>.

Additional information on the SIPP can be found at <www.census.gov/programs -surveys/sipp.html> (main SIPP Web site) and <www.census.gov /content/dam/Census/programs -surveys/sipp/methodology /2014-SIPP-Panel-Users-Guide .pdf> (SIPP Users' Guide).

SUGGESTED CITATION

Mohanty, Abinash, "Dynamics of Economic Well-Being: Poverty, 2013–2016," *Current Population Reports*, P70BR-172, U.S. Census Bureau, Washington, DC, 2021.

³⁶ Additional discussion about the "seam effect" in the 2008 and 2014 SIPP panels can be found in Ashley Edwards and Lewis H. Warren, "Poverty Dynamics in the 2014 Survey of Income and Program Participation," SEHSD Working Paper 2017-52, <www.census.gov/content/dam /Census/library/working-papers/2017 /demo/SEHSD-WP2017-52.pdf>.

Appendix Table 1. Episodic Poverty by Selected Characteristics

(Numbers in thousands)

		201	3-2016 ¹		
Characteristic		Peop	ole in poverty 2 d	or more mont	ths
Characteristic			90 percent		90 percent
	Total	Number	C.I. ² (±)	Percent	C.I. ² (±)
All people	295,274	100,246	2,922	34.0	1.0
Sex					
Male	143,255	46,380	1,656	32.4	1.1
Female	152,019	53,865	1,551	35.4	1.0
Race and Hispanic Origin ^{3, 4}					
White	229,780	72,630	2,415	31.6	1.1
White, non-Hispanic	183,269	49,510	1,967 968	27.0 46.5	1.1 2.4
Black	38,284	17,818	968	46.5	2.4
Hispanic	50,673	24,636	1,289	48.6	2.5
Non-Hispanic	244,601	75,609	2,439	30.9	1.0
Age					
Under 18 years	71,599	31,508	1,349	44.0	1.9
18 to 64 years.	187,172	62,962	1,860 407	33.6 15.8	1.0 1.1
65 years and over	36,503	5,776	407	15.8	1.1
Family Status	175 071	40.100	0 551	00.0	1.4
In married-couple families In families with a male householder,	175,631	40,129	2,551	22.8	1.4
no spouse present	9,138	3,914	516	42.8	4.6
In families with a female householder,	5,150	5,514	510	42.0	4.0
no spouse present	49,631	28,297	1,802	57.0	2.7
Unrelated individuals	60,874	27,905	1,063	45.8	1.2
Educational Attainment					
Total, aged 25 and older	195,915	55,022	1,536	28.1	0.8
No high school diploma	23,912	12,212	618	51.1	1.9
High school, no college	54,111	17,352	832	32.1	1.3
Some college, no degree	52,678	14,406	787 664	27.3	1.3
Bachelor's degree or higher	65,214	11,053	664	16.9	1.0

¹The 2013-2016 estimates require respondents to be in sample all 48 months.

² A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

³ Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method.

⁴ Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

Note: More information on confidentiality protection and sampling and nonsampling error is available at <www.census.gov/programs-surveys/sipp.html>.

Appendix Table 2. Chronic Poverty by Selected Characteristics

(Numbers in thousands)

			2013-2016 ¹		
Characteristic		P	eople in poverty	all 48 months	
Characteristic	Tabal	Neuroleau	90 percent		90 percent
	Total	Number	C.I. ² (±)	Percent	C.I. ² (±)
All people	295,274	8,264	835	2.8	0.3
Sex					
Male	143,255	3,266	393	2.3	0.3
Female	152,019	4,998	574	3.3	0.4
Race and Hispanic Origin ^{3, 4}					
White	229,780	5,473	701	2.4	0.3
White, non-Hispanic	183,269	3,045	439	1.7	0.2
Black	38,284	2,158	365	5.6	1.0
Hispanic	50,673	2,603	513	5.1	1.0
Non-Hispanic	244,601	5,661	619	2.3	0.3
Age					
Under 18 years	71,599	3,258	470	4.6	0.7
18 to 64 years	187,172	4,474	466	2.4	0.2
65 years and over	36,503	531	132	1.5	0.4
Family Status					
In married-couple families	175,631	1,458	386	0.8	0.2
In families with a male householder,	0.170	67	10	0.7	0.5
no spouse present In families with a female householder,	9,138	67	48	0.7	0.5
no spouse present	49.631	3.905	660	7.9	1.3
Unrelated individuals	60,874	2,834	326	4.7	0.5
	,	_,			
Educational Attainment					
Total, aged 25 and older	195,915	4,419	478	2.3	0.2
No high school diploma High school, no college	23,912 54,111	1,737 1.488	270 262	7.3 2.8	1.1 0.5
Some college, no degree	52,678	746	172	2.8	0.5
Bachelor's degree or higher	65,214	448	129	0.7	0.3

¹ The 2013-2016 estimates require respondents to be in sample all 48 months.

² A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

³ Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method.

⁴ Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

Note: More information on confidentiality protection and sampling and nonsampling error is available at <www.census.gov/programs-surveys/sipp.html>.

Appendix Table 3. Chronic and Episodic Poverty and the Proportion of Episodically Poor That Are Also Chronically Poor

(Numbers in thousands)

					20	13-2016 ¹					
Characteristic		Pe	ople in po more m (episo	nonths	or	Ρ		ooverty a onths onic)	all	episod poor tl	onically
			90 percent		90 percent		90 percent		90 percent		90 percent
All people	Total 295,274	Number 100,246	C.I. ² (±) 2,922	Percent 34.0	C.I. ² (±) 1.0	ber 8,264		Percent 2.8	C.I. ² (±)	Percent 8.2	C.I. ² (±)
	233,274	100,240	2,522	54.0	1.0	0,204	000	2.0	0.5	0.2	0.5
Sex Male	143,255 152,019	46,380 53,865	1,656 1,551	32.4 35.4		3,266 4,998	393 574	2.3 3.3	0.3 0.4	7.0 9.3	0.9 1.1
Race and Hispanic Origin ^{3, 4} White	229,780 183,269 38,284	72,630 49,510 17,818	2,415 1,967 968	31.6 27.0 46.5	1.1 1.1 2.4	5,473 3,045 2,158	701 439 365	2.4 1.7 5.6	0.3 0.2 1.0	7.5 6.1 12.1	1.0 0.9 2.0
Hispanic Non-Hispanic	50,673 244,601	24,636 75,609	1,289 2,439	48.6 30.9	2.5 1.0	2,603 5,661	513 619	5.1 2.3	1.0 0.3	10.6 7.5	2.2 0.8
Age Under 18 years 18 to 64 years 65 years and over	71,599 187,172 36,503	31,508 62,962 5,776	1,349 1,860 407	44.0 33.6 15.8		3,258 4,474 531		4.6 2.4 1.5	0.7 0.2 0.4	10.3 7.1 9.2	1.5 0.8 2.1
Family Status In married-couple families In families with a male householder, no spouse present	175,631 9,138	40,129 3,914	2,551	22.8	1.4	1,458 67	386	0.8	0.2	3.6	1.0
In families with a female householder, no spouse present Unrelated individuals	49,631 60,874	28,297	1,802	42.8 57.0 45.8	2.7	3,905 2,834		7.9	1.3	13.8	2.1
Educational Attainment Total, aged 25	00,074	27,303	1,005	-3.0	1.2	2,004	520		0.5	10.2	
No high school diploma High school, no college Some college, no	195,915 23,912 54,111	55,022 12,212 17,352	1,536 618 832	28.1 51.1 32.1	0.8 1.9 1.3	4,419 1,737 1,488	478 270 262	2.3 7.3 2.8	0.2 1.1 0.5	8.0 14.2 8.6	0.9 2.0 1.4
degree Bachelor's degree or	52,678	14,406	787	27.3		746	172	1.4	0.3	5.2	1.2
higher	65,214	11,053	664	16.9	1.0	448	129	0.7	0.2	4.1	1.2

¹ The 2013-2016 estimates require respondents to be in sample all 48 months.

² A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

³ Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method.

⁴ Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

Note: More information on confidentiality protection and sampling and nonsampling error is available at

<www.census.gov/programs-surveys/sipp.html>.

Appendix Table 4.

Annual Poverty by Selected Characteristics: 2013-2016

(Numbers in thousands)

In poverty using annual income and threshold In poverty using annual income and threshold Number 90 91 90 91 90 91	2014									
	In pover income	ty using annual and threshold		In povert income	y using annu and thresholc			In pove incom	In poverty using annual income and threshold	nual Iold
ple 307,671 50,106 $1,134$ 16.3 0.4 312,067 41,160 1,753 molettim 150,251 25,460 568 15.1 0.5 152,460 312,067 41,160 1,051 molettim 150,251 27,433 725 17,4 0.5 158,341 250,73 724 153,3 0.5 159,598 23,003 1,051 molettispanic 03817 10.237 503 155,740 04 35,724 1533 0.5 10,044 954 1,034 shoot-Hispanic 03817 11.15 0,04 24,0108 31,895 1,137 0,5 19,043 23,024 1,394 shoot-Hispanic 0381 10,047 0,03 14,1 0,4 15,539 0,5 14,075 911 shoot-Hispanic 24,035 506 12,433 25,203 11,315 90,64 8,332 10,315 954 shoot-Hispanic 23,103 12,533 26,24 <td< th=""><th>Total Number</th><th>Percent</th><th></th><th>-</th><th>Percent</th><th>90 percent C.I.² (±)</th><th>Total Nu</th><th>Number C.I</th><th>90 percent C.I.² (±) Percent</th><th>percent C.I.² (±)</th></td<>	Total Number	Percent		-	Percent	90 percent C.I. ² (±)	Total Nu	Number C.I	90 percent C.I. ² (±) Percent	percent C.I. ² (±)
	309,613 45,241	*14.6	312,067			0.6 3	314,807 3	38,687	1,614 *^12.3	3 0.5
Image: Mark Mark Mark Mark Mark Mark Mark Mark	151,272 20,167	*13.3	152,469			0.6		17,099		.1 0.6
Id Hispanic Origin ^{3,4} A A	158,341 25,073	*15.8	159,598				161,081 2	21,588	993 *^13.4	
•. non-Hispanic 191,141 22,054 719 11.5 0,475 20,245 932 +10.6 0.5 190,533 18,762 1.044 c 33,817 10,237 503 25.7 12 40,176 9,370 604 *23.3 15.5 40,644 8,352 660 c 52,909 14,130 581 26.7 11 53,909 12,642 713 *23.5 1.3 8,352 660 c 52,909 14,130 581 26.7 11 53,909 12,642 713 *23.5 1.3 8,352 660 1,338 spanic 193,317 17,125 539 24,415 25,570 24,563 24,368 1,318 11,315 951 sadd over 13,738 13,731 13,712 74 0.5 44,461 2,763 24,356 23,366 12,643 1,304 sadd over 182,274 13,718 13,718 11,205 24,365 1	240.108 31.895	*13.3	241.083			0.6	242.241 2	25.931	1.466 *^10.7	
39,817 10,237 503 25.7 1.2 40,176 9,370 604 *23.3 1.5 40,644 8,352 660 c 52,909 14,130 581 26.7 1.1 53,909 12,642 713 *23.5 1.3 55,298 11,315 954 spanic 254,762 35,976 935 141 0.4 255,704 32,599 1,082 *12.7 0.4 256,768 29,866 1,338 g vars 73,177 17,125 590 23,4 0.8 72,834 15,539 668 *21.3 0.4 49,65 954 1,338 g vars 133,289 29,935 724 15,539 668 *21.3 0.3 72,554 14,075 911 g vars 133,289 13,712 14,126 0.4 135,332 668 *1.238 0.4 44,61 2,769 223 s and over 132,724 13,713 132,759 954 156	190,475 20,245	*10.6	190,533							.1 0.6
anic 52,909 14,130 581 26.7 1.1 53,909 12,642 713 *23.5 1.3 55,298 11,315 954 Hispanic 254,762 35,976 935 14.1 0.4 255,704 32,599 10,02 *12.7 0.4 256,768 29,866 1,338 er Navers 73,177 17,125 590 23.4 0.8 72,854 15,539 668 *21.3 0.9 72,554 14,075 911 er Navers 133,289 29925 724 15,5 0.4 194,126 26,701 32,564 14,075 911 er Navers 41,205 3,056 197 7.4 0.5 42,632 24,361 2,769 223 inferolle 132,274 13,781 821 7.6 0.4 196,052 24,361 2,769 222 inferolle 13,616 70 13,718 13,718 12,750 938 76.8 1,716 260 <	40,176 9,370	*23.3	40,644		^	1.6	41,081	8,431	704 ^20.5	
Hispanic 254,762 35,976 935 14.1 0.4 255,704 32,599 1,082 *12.7 0.4 256,768 29,866 1,338 er Navers 73,177 17,125 590 23.4 0.8 72,834 15,539 668 *21.3 0.9 72,554 14,075 911 er s and over 193,289 29.925 724 15,5 0.4 194,126 26,877 750 *13.8 0.4 16,075 911 er s and over 41,205 3,056 197 7,4 0.5 42,633 2,824 225 *6.6 0.5 44,461 2,769 222 IV Status 18,7305 137,305 137,305 137,305 938 *6.8 0.5 14,461 2,769 222 IV Status 137,701 137,721 137,31 137,505 938 *6.8 0.5 14,461 2,769 222 IV Status 15,610 137,510 938 *6.8 0.	53,909 12,642	*23.5	55,298			1.7		9,731	1,056 *^17.2	.2 1.9
er 18 years 73,177 17,125 590 23.4 0.8 72,854 15,539 668 *21.3 0.9 72,554 14,075 911 64 years 193,289 29,925 724 15.5 0.4 194,126 26,877 750 *13.8 0.9 72,554 14,075 951 ears and over 41,205 3,056 197 7.4 0.5 42,633 2,824 255 *6.6 0.5 44,461 2,769 222 ears and over 41,205 3,056 197 7.4 0.5 42,633 2,824 255 *6.6 0.5 44,461 2,769 222 ily Status arried-couple families 182,274 13,781 18,738 11,288 1,120 222 14,653 1,2769 222 1,416 260 1,416 260 1,416 260 1,416 260 1,416 260 1,416 260 1,416 260 1,416 260 1,416 2,169 <td>255,704 32,599</td> <td>*12.7</td> <td>256,768</td> <td></td> <td></td> <td>0.5 2</td> <td>258,307 2</td> <td>28,956</td> <td>1,195 ^11.2</td> <td></td>	255,704 32,599	*12.7	256,768			0.5 2	258,307 2	28,956	1,195 ^11.2	
193,289 29,925 724 155 0.4 194,126 26,877 750 *13.8 0.4 195,052 24,336 951 41,205 3,056 197 7.4 0.5 42,633 2,824 225 *6.6 0.5 44,461 2,769 222 182,274 13,781 821 7.6 0.4 187,395 12,750 938 *6.8 0.5 44,461 2,769 222 9,943 1,590 227 12,750 938 *6.8 0.5 14,461 2,769 225 9,943 1,590 227 16,001 1,572 243 15.7 2.5 9,400 1,416 260 51,883 18,286 699 355.2 17,669 836 *33.3 1.5 53,035 1,416 260 51,883 18,286 699 355.2 13,569 836 *33.3 1.5 660 1,416 260 51,883 16,450 5	72,854 15,539	*21.3	72,554		~	1.3	72,796	13,187	821 **18.1	
41,205 3,056 197 7.4 0.5 42,633 2,824 225 *6.6 0.5 44,461 2,769 222 182,274 13,781 821 7.6 0.4 187,395 12,750 938 *6.8 0.5 44,461 2,769 222 9,943 1,590 227 16.0 2.0 10,001 1,572 243 15.7 2.5 9,400 1,416 260 51,883 1,596 699 35.2 10,001 1,572 243 15.7 2.5 9,400 1,416 260 51,883 18,286 699 35.2 17,669 836 *33.3 1.5 53,035 15,463 1,063 63,571 16,450 534 259 13,250 504 *22.4 0.8 60,914 13,014 544 204,314 24,465 13,250 504 *22.4 0.8 60,914 13,014 544 204,510 6,860 <t< td=""><td>194,126</td><td>*13.8</td><td>195,052</td><td></td><td></td><td>0.5 1</td><td>196,495 2</td><td>22,872</td><td>957 *^11.6</td><td>.6 0.5</td></t<>	194,126	*13.8	195,052			0.5 1	196,495 2	22,872	957 *^11.6	.6 0.5
182,274 13,781 821 7.6 0.4 187,395 12,750 938 *6.8 0.5 188,718 11,288 1,190 9,943 1,590 227 16.0 2.0 10,001 1,572 243 15.7 2.5 9,400 1,416 260 35 51,883 1,590 227 16.0 2.0 10,001 1,572 243 15.7 2.5 9,400 1,416 260 35 51,883 18,286 699 35.2 1.2 53,129 17,669 836 *33.3 1.5 53,035 15,463 1,063 * 63,571 16,450 534 25.9 0.8 504 *22.4 0.8 60,914 13,014 544 * 204,314 16,450 534 25,053 13,014 544 * * * * * * * * * * * * * * * *	42,633 2,824	*6.6	44,461				45,517	2,628	269 ^5.	
9,943 1,590 227 16.0 2.0 10,001 1,572 243 15.7 2.5 9,400 1,416 260 51,883 18,286 699 35.2 1.2 53,129 17,669 836 *33.3 1.5 53,035 15,463 1,063 9,400 1,416 260 63,571 16,450 534 25.9 0.8 59,087 13,250 504 *22.4 0.8 60,914 13,014 544 9,400 1,416 544 9,406 534 24,610 534 24,963 1,063 9,400 1,416 544 9,406 544 9,406 544 9,406 544 9,406 544 9,406 544 9,406 544 9,406 544 9,544 1,655 7,363 1,065 7,44 544 9,544 1,065 1,065 1,065 24,44 1,065 1,065 1,065 1,065 1,065 2,444 2,606 2,606 2,045 7,365 7,369 3,511 1,426 2,417 5,759 3,535 2,5835 2,75	187,395 12,750	0 8.9 *	188,718			0.6	189,551	10,022	1,112	^5.3 0.6
51,883 18,286 699 35.2 1.2 53,129 17,669 836 *33.3 1.5 53,035 15,463 1,063 56 63,571 16,450 534 25.9 0.8 59,087 13,250 504 *22.4 0.8 60,914 13,014 544 544 204,314 24,963 628 12.2 0.3 206,425 23,053 709 *11.2 0.3 209,802 21,369 851 479 204,314 24,963 628 12.2 0.3 206,425 23,053 709 *11.2 0.3 209,802 21,369 851 479 204,314 24,610 6,860 300 27.9 1.2 24,162 6,257 383 *25.9 1.4 23,417 5,759 353 59,201 8,489 321 14,3 0.5 58,372 7,748 428 *13.3 0.7 57,955 7,383 479	10 001 1 572	15.7				7.7	8 638	1 299	363 15.0	6 ×
51,883 18,286 699 35.2 1.2 53,129 17,669 836 *33.3 1.5 53,035 15,463 1,063 * 63,571 16,450 534 25.9 0.8 59,087 13,250 504 *22.4 0.8 60,914 13,014 544 * 204,314 24,963 628 12.2 0.3 206,425 23,053 709 *11.2 0.3 209,802 21,369 851 * 24,610 6,860 300 27.9 1.2 24,610 6,860 300 27.9 1.2 24,162 6,257 383 *25.9 1.4 23,417 5,759 353 59,201 8,489 321 14,3 0.5 58,372 7,748 428 *13.3 0.7 5,795 7,383 479						i				
63,571 16,450 534 25.9 0.8 59,087 13,250 504 *22.4 0.8 60,914 13,014 544 * 204,314 24,963 628 12.2 0.3 206,425 23,053 709 *11.2 0.3 209,802 21,369 851 * 24,610 6,860 300 27.9 1.2 24,162 6,257 383 *25.9 1.4 23,417 5,759 353 59,201 8,489 321 14,3 0.5 58,372 7.748 428 *13.3 0.7 57.955 7.383 479	53,129 17,669	*33.3 1.	53,035		×	1.9				.2 1.8
204,314 24,963 628 12.2 0.3 206,425 23,053 709 *11.2 0.3 209,802 21,369 851 * 24,610 6,860 300 27.9 1.2 24,162 6,257 383 *25.9 1.4 23,417 5,759 353 *79 50,01 8,489 321 14.3 0.5 58,372 7,748 428 *13.3 0.7 57,955 7,383 479	59,087 13,250	*22.4 0.	60,914		^	0.8	63,629 1	12,956	681 ^20.4	
204,514 24,000 020 122.0 0.3 200,420 25,001 1.2 24,162 6,257 383 7.25.9 1.4 23,417 5,759 353 22,610 6,860 300 27.9 1.2 24,162 6,257 77.8 428 413.3 0.7 5,595 7,59 353 479	206 A2E	C F *	CU8 80/C		*	~ ~ ~	C 202 CFC	V 7 V 0C	ν 0 * 20 20	
	24.162	*75.9	200,002			1		5 230	÷	
	58,372 7,748	*13.3						6,951		1 0.7
54,682 6,035 308 11.0 0.5 56,100 5,866 353 10.5 0.6 57,134 5,246 350	56,100 5,866	10.5						5,056		
Bachelor's degree or higher	67,792 3,181	*4.7				0.4	72,431	3,236	361 ^4.5	.5 0.5

² A big percentation of the estimate of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate. ² Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method. ⁴ Hispanics may be any race; data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration. Note: More information on confidentiality protection and sampling and nonsampling error is available at <www.census.gov/programs-surveys/sipp.html>. Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panel.

Appendix Table 5. Income-to-Poverty Ratio Movement: 2013-2016

					2016	income-to	-poverty I	ratio ¹			
2013 income-to- poverty ratio	2013	Under	50.0%	50.0%-	99.9%	100.0%-	149.9%	150.0%-	199.9%	200% an	d above
	number in		90		90		90		90		90
	poverty (in		percent		percent		percent		percent		percent
	thousands)	Percent	C.I. (±) ²	Percent	C.I. (±) ²	Percent	C.I. (±) ²	Percent	C.I. (±) ²	Percent	C.I. (±) ²
Under 50.0%	21,889	25.9	2.8	23.0	2.7	13.5	2.0	10.4	2.4	27.3	2.8
50.0%-99.9%	24,148	11.7	1.9	25.8	2.6	21.7	2.7	16.1	2.4	24.7	3.2
100.0%-149.9%	27,975	5.9	1.3	11.7	1.6	25.5	2.7	19.2	2.3	37.8	3.1
150.0%-199.9%	26,925	3.3	1.2	7.1	1.8	11.9	2.0	20.7	2.7	57.0	3.2
200% and above	192,769	1.5	0.3	1.4	0.2	3.1	0.4	4.7	0.5	89.3	0.7

¹ Respondents had to be in sample 2013-2016 in order to be included.

² A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

Note: More information on confidentiality protection and sampling and nonsampling error is available at

<www.census.gov/programs-surveys/sipp.html>.

Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panel.

Appendix Table 6. **Duration of Poverty Spells: 2013-2016**

(Percentage of spells in interval)

Months	-2013 (excludes spells under	
	Estimate	90 percent C.I. (±) ¹
2-6	35.4	1.9
7–12	32.4	2.0
13–18	8.1	1.3
19-24	7.1	1.4
25-30	2.6	1.2
31-36	2.1	1.1
37-42	0.4	0.6
43+	12.0	2.4

¹ A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

Note: More information on confidentiality protection and sampling and nonsampling error is available at <www.census.gov/programs-surveys/sipp.html>. Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panel.

Appendix Table 7. Poverty Surival Rate Across Sex: 2013–2016

(In percent)

	Male	e	Fema	ale
At month	Surviving	90 percent C.I. (±) ¹	Surviving	90 percent C.I. (±) ¹
4	81.2	1.9	81.2	1.7
8	60.9	2.4	60.5	2.1
12	45.7	2.5	46.8	2.4
16	27.0	2.1	28.6	2.4
20	22.4	2.2	23.9	2.4
24	18.5	2.2	19.8	2.3
28	15.2	2.1	16.3	2.4
32	13.7	2.3	14.7	2.6
36	11.8	2.4	13.1	2.7
40	11.5	2.4	12.9	2.7
44	11.0	2.7	12.9	2.7
48	11.0	2.7	12.9	2.7

¹ A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

Note: More information on confidentiality protection and sampling and nonsampling error is available at <www.census.gov/programs-surveys/sipp.html>.

Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panels.

Appendix Table 8.

Poverty Survival Rate Across Demographic Groups: 2013-2016

(In percent)

	White Non-	Hispanic ¹	Blac	ck1	Hispanic ²		
At Month		90 percent		90 percent		90 percent	
	Surviving	C.I. (±) ³	Surviving	C.I. (±) ³	Surviving	C.I. (±) ³	
4	80.5	2.3	83.1	3.7	81.0	3.6	
8	59.9	2.8	67.1	4.8	58.5	5.4	
12	44.7	2.9	52.4	4.7	45.9	4.9	
16	25.5	2.7	34.5	4.8	27.8	4.5	
20	20.6	2.7	29.7	5.0	23.4	4.3	
24	16.1	2.5	24.3	5.1	22.1	4.3	
28	13.3	2.4	19.5	4.9	19.2	4.6	
32	12.4	2.4	17.1	5.0	15.8	6.6	
36	10.9	2.7	15.8	4.8	12.3	6.2	
40	10.9	2.7	15.3	4.9	11.2	6.5	
44	10.9	2.7	15.3	4.9	11.2	6.5	
48	10.9	2.7	15.3	4.9	11.2	6.5	

¹ Federal surveys, including the SIPP 2014 Panel, give respondents the option of reporting more than one race. These data can be shown in two ways: (1) as mutually exclusive from other race groups, which may be denoted by "alone" or (2) not mutually exclusive with other race groups, denoted by "alone or in combination with other race groups." The figures, tables, and text in this report show race using the first method.

² Hispanics may be any race, data in this report for Hispanics overlap data for racial groups. Data users should exercise caution when interpreting aggregate results for these groups because they consist of many distinct subgroups that differ in socioeconomic characteristics, culture, and recency of immigration.

³ A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

Note: More information on confidentiality protection and sampling and nonsampling error is available at

<www.census.gov/programs-surveys/sipp.html>.

Appendix Table 9. Poverty Survival Rate at Different Levels of Poverty: 2013-2016

(In percent)

	Below 50		Below 75		Below 100		Below 125	
At month		90 percent		90 percent		90 percent		90 percent
	Surviving	C.I. (±) ¹	Surviving	C.I. (±)1	Surviving	C.I. (±) ¹	Surviving	C.I. (±) ¹
4	75.3	2.1	78.5	1.7	81.2	1.6	81.2	1.7
8	52.0	2.4	56.6	2.2	60.7	2.0	62.1	2.0
12	37.3	2.7	42.0	2.4	46.3	2.2	50.2	2.0
16	20.3	2.2	23.7	2.1	27.8	2.0	31.1	1.9
20	15.6	2.1	18.7	1.9	23.2	2.0	26.9	1.8
24	12.5	2.0	15.8	1.8	19.2	2.0	23.1	1.7
28	9.1	1.8	12.7	1.8	15.8	1.9	18.7	1.8
32	8.3	1.8	10.7	2.0	14.2	2.2	17.0	1.7
36	7.4	1.6	9.2	1.9	12.5	2.3	14.4	2.1
40	7.1	1.6	8.5	2.1	12.3	2.3	13.4	2.6
44	6.2	2.2	8.3	2.2	12.0	2.4	12.0	3.4
48	3.0	3.9	8.1	2.3	12.0	2.4	12.0	3.4

¹ A 90 percent confidence interval (C.I.) is a measure of an estimate's variability. The larger the confidence interval in relation to the size of the estimate, the less reliable the estimate.

Note: More information on confidentiality protection and sampling and nonsampling error is available at

<www.census.gov/programs-surveys/sipp.html>.
Source: U.S. Census Bureau, Survey of Income and Program Participation, 2014 Panel.