# Fertility of Women in the United States: 2012

**Population Characteristics** 

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#### **INTRODUCTION**

This report describes the fertility patterns of women in the United States, patterns which have changed significantly over time. The average number of children ever born has dropped from more than three children per woman in 1976 to about two children per woman in 2012 (see Figure 1). Recent years have also seen drops in adolescent childbearing and increases in nonmarital births.<sup>1, 2</sup>

These changes in fertility are important because recent research suggests that women's childbearing is related

<sup>&</sup>lt;sup>2</sup> S.J. Ventura, "Changing Patterns of Nonmarital Childbearing in the United States," *NCHS data brief*, National Center for Health Statistics, Hyattsville, MD, 2009, No. 18.



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<sup>&</sup>lt;sup>1</sup> J.A. Martin, B.E. Hamilton, J.K. Osterman, et al., "Births: Final Data for 2012," *National Vital Statistics Reports*, National Center for Health Statistics, Hyattsville, MD, 2013, Vol. 62, No. 9.

to their rates of employment, their educational attainment, and their economic well-being.<sup>3, 4, 5</sup> Furthermore, other research connects the circumstances into which a child is born to that child's later outcomes, including their likelihood of living in a single-parent household and their academic achievement.<sup>6, 7</sup> This report utilizes fertility data collected in the June 2012 Supplement to the Current Population Survey (CPS), as well as the 2012 American Community Survey (ACS), to discuss these and other trends.<sup>8</sup>

This report has three sections: cumulative fertility, births in the last year, and relationship status at first birth. Fertility patterns are shown by women's race, ethnicity, age, citizenship, and employment status, as well as their state of residence. This report also examines new topics, such as women's marital status at the time of their first births, the completed fertility of women up to age 50, and the fertility patterns of young women.

#### HIGHLIGHTS

Some highlights of the report are:

- Births to adolescents continued to decline.
- More than one in five women with a birth in the past 12

<sup>5</sup> A. Crittenden, *The Price of Motherhood:* Why the Most Important Job in the World Is Still the Least Valued, Henry Hold and Company, LLC, New York, NY, 2001.

<sup>6</sup> Z. Redd, T.S. Karver, D. Murphy, et al., "Two Generations in Poverty: Status and Trends Among Parents and Children in the United States, 2000–2010," *Child Trends Research Brief*, Washington, DC, 2011, Publication #2011-25.

<sup>7</sup> K.A. Moore, Z. Redd, M. Burkhauser, et al., "Children in Poverty: Trends, Consequences, and Policy Options," *Child Trends Research Brief*, Washington, DC, 2009, Publication #2009-11.

<sup>8</sup> For more information about these data sources, see "About the Data."

months reported at the time of the survey that they were living in someone else's home.

 The majority of first births occur in marriage, as they have for decades, but the most recent cohort of young mothers is much more likely to have had their first birth in a cohabiting relationship than in marriage.

#### **CUMULATIVE FERTILITY**

Using data from the CPS's June 2012 interview, we can examine the total number of children born to women aged 15 to 50 and how the number of children ever born varies between groups.

In June 2012, 75.4 million women in the United States were aged 15 to 50, and 59 percent of them were mothers (see Table 1). Of all women aged 15 to 50, 17.2 percent had one child, 23.1 percent had two children, and 18.5 percent had three or more children.

The prevalence of both large families and childlessness (defined as not having given birth to any children) are not uniform across racial groups or by Hispanic origin (see Table 1).<sup>9</sup> Hispanic women aged 15 to 50 have lower rates of childlessness (35.3 percent) than do women in any other group, while Asian women of the same age have the highest rates of childlessness (46.1 percent). Forty-three percent of non-Hispanic White women and 39 percent of Black women are childless. Hispanic women aged 15 to 50 have the highest percentages of women with three or more children (25.2 percent), followed by Black women (21.3 percent).

#### Definitions

**Birth rate**: Number of children born per 1,000 women over a given year (birth rates allow for comparisons of the number of births across populations of different sizes).

**Childlessness**: Not having given birth to any children.

**Children ever born**: Number of children a woman has given birth to.

#### Cohabitation, cohabiting:

Defined as living with a romantic partner to whom the person is not married (i.e., a boyfriend, girlfriend, or unmarried partner).

**Cohort**: A group of people who experience the same life event at roughly the same time (for example, in this report, women who had their first child at roughly the same time).

**Completed fertility**: Number of children a woman has given birth to when she completes childbearing.

**Cumulative fertility**: Total number of children ever born to a woman at the time of the survey, regardless of whether she will have more children in the future.

**Replacement-level fertility**: The number of children each woman would need to give birth to in order to keep the national population the same size in the subsequent generation.

<sup>&</sup>lt;sup>3</sup> A.R. Miller, "The Effects of Motherhood Timing on Career Path," *Journal of Population Economics*, 2009, 24: 1071–1100.

<sup>&</sup>lt;sup>4</sup> M.M. Marni, "Women's Educational Attainment and the Timing of Entry Into Parenthood," *American Sociological Review*, 49(4), 1984, pp. 491–511.

<sup>&</sup>lt;sup>9</sup> This report will refer to the White-alone population as White, the Black-alone population as Black, the Asian-alone population as Asian, and the White-alone, non-Hispanic population as non-Hispanic White unless otherwise noted.

#### Table 1. Children Ever Born Per 1,000 Women 15 to 50 Years Old by Age, Race, and Hispanic Origin: June 2012

(Numbers in thousands)

					Percent	distribution of	f women	
		Children			by numbe	r of children e	ever born <sup>2</sup>	
Characteristic		ever born	Margin of					Three
	Number of	per 1.000	error <sup>1</sup>			One	Two	or more
	women	women	(±)	Total	None	child	children	children
AGE								
15 to 50 years	75,392	1 297	12	100.0	41.3	17.2	23.1	18 5
15 to 19 years	10,351	68	4	100.0	94.9	4.0	0.8	0.4
20 to 24 years	10,909	421	12	100.0	71.4	18.0	8.5	2.2
25 to 29 years	10.437	955	24	100.0	49.4	21.6	18.1	11.0
30 to 34 years	10.324	1.563	36	100.0	28.2	21.6	28.4	21.9
35 to 39 years	9,709	1,990	46	100.0	17.2	17.7	33.8	31.3
40 to 44 years	10,516	1,998	44	100.0	15.1	18.9	34.9	31.1
45 to 50 years	13,145	1,982	39	100.0	16.8	18.1	35.1	30.0
RACE AND HISPANIC ORIGIN White alone								
15 to 50 years	56,951	1,291	13	100.0	41.4	16.6	23.7	18.4
15 to 19 years	7,673	60	4	100.0	95.5	3.3	0.9	0.3
20 to 24 years	8,078	387	13	100.0	73.3	17.2	7.5	2.0
25 to 29 years	7,825	944	27	100.0	50.5	19.7	19.1	10.7
30 to 34 years	7,719	1,553	41	100.0	27.7	21.4	29.4	21.5
35 to 39 years	7,280	1,965	52	100.0	16.9	17.8	34.8	30.5
40 to 44 years	8,055	1,987	50	100.0	15.3	18.5	34.9	31.3
45 to 50 years	10,319	1,963	44	100.0	17.0	17.5	35.8	29.7
White alone, non-Hispanic								
15 to 50 years	44,445	1,216	14	100.0	43.0	16.6	24.0	16.4
15 to 19 years	5,728	41	4	100.0	96.9	2.3	0.7	0.1
20 to 24 years	6,157	328	14	100.0	77.4	14.7	6.1	1.8
25 to 29 years	5,984	803	27	100.0	55.5	19.6	16.9	8.1
30 to 34 years	5,899	1,424	44	100.0	31.3	21.7	29.1	18.0
35 to 39 years	5,571	1,831	56	100.0	19.1	19.1	35.5	26.3
40 to 44 years	6,472	1,884	53	100.0	16.4	19.2	36.6	27.8
45 to 50 years	8,633	1,878	46	100.0	17.6	18.2	36.6	27.6
Black alone								
15 to 50 years	10,949	1,408	32	100.0	38.6	19.9	20.2	21.3
15 to 19 years	1,634	90	12	100.0	92.4	6.5	0.8	0.3
20 to 24 years	1,739	645	42	100.0	57.6	24.1	14.9	3.4
25 to 29 years	1,507	1,163	73	100.0	38.5	29.7	17.1	14.7
30 to 34 years	1,485	1,846	109	100.0	25.1	21.3	24.5	29.1
35 to 39 years	1,374	2,199	133	100.0	19.5	15.4	25.2	40.0
40 to 44 years	1,447	2,072	123	100.0	15.4	20.8	30.0	33.9
45 to 50 years	1,763	2,064	111	100.0	15.5	21.3	30.6	32.6
Asian alone								
15 to 50 years	4,549	1,091	40	100.0	46.1	17.6	24.9	11.5
15 to 19 years	464	53	16	100.0	98.4	Z	0.9	0.7
20 to 24 years	591	176	29	100.0	89.9	5.2	3.5	1.5
25 to 29 years	689	4//	53	100.0	65.9	23.5	8.1	2.5
30 to 34 years	/28	1,040	95	100.0	42.1	23.7	24.9	9.3
30 to 39 years	6/U	1,566	141	100.0	20.4	25.3	40.2	14.1
40 10 44 years	708	1,935	105	100.0	13.3	19.5	43.9	23.4
45 to 50 years	701	1,901	163	100.0	10.8	18.2	41.4	23.0

See notes at end of table.

#### Table 1. Children Ever Born Per 1,000 Women 15 to 50 Years Old by Age, Race, and Hispanic Origin: June 2012-Con.

(Numbers in thousands)

		Children			Percent by number	distribution of r of children e	f women ever born <sup>2</sup>	
Characteristic	Number of women	ever born per 1,000 women	Margin of Error <sup>1</sup>	Total	None	One child	Two children	Three or more children
RACE AND HISPANIC ORIGIN—Con.								
Hispanic (any race)								
15 to 50 years	14,068	1,546	30	100.0	35.3	17.2	22.2	25.2
15 to 19 years	2,205	128	13	100.0	90.4	7.5	1.3	0.8
20 to 24 years	2,158	589	35	100.0	60.2	25.0	12.0	2.8
25 to 29 years	2,040	1,384	72	100.0	34.1	22.1	25.0	18.9
30 to 34 years	2,045	1,947	98	100.0	16.2	21.4	30.0	32.4
35 to 39 years	1,936	2,404	121	100.0	9.4	13.8	32.2	44.7
40 to 44 years	1,790	2,389	125	100.0	10.9	15.5	28.7	44.9
45 to 50 years	1,894	2,356	120	100.0	14.3	15.3	30.7	39.7

Z Represents or rounds to zero.

<sup>1</sup> This number, when added to or subtracted from the estimate, represents the 90 percent confidence interval around the estimate. <sup>2</sup> The denominator for each of these percentages is the total number of women in the given age and race/ethnicity category. The numerator is the number of women in that age and race/ethnicity category who have the given number of children. These percentages describe the fertility patterns of a given group of women. Across the line, the percentages will sum to 100 percent.

Source: U.S. Census Bureau, Current Population Survey, June 2012.

#### **ABOUT THE DATA**

The data in this report are from the 2012 ACS and the Fertility Supplement to the June 2012 CPS. The population represented by the ACS (the population universe) is the household and group quarters population living in the United States or Puerto Rico. The population represented by the CPS is the civilian noninstitutionalized population living in the United States. This report focuses on the female population aged 15 to 50 as represented by these two surveys.

The ACS fertility data are from a single survey question asked of women 15 to 50 years old: "Has (this person) given birth to any children in the past 12 months?" From this nationally representative sample, we are able to approximate birth rates by a number of key demographic characteristics. The large sample size of the ACS (3 million households) also makes it possible to analyze fertility characteristics on a state-by-state basis. For more details about the ACS, including its sample size and questions, see <www.census.gov/acs/www/methodology/methodology\_main/>.

The CPS data are from a four-question fertility series, asked in June of women 15 to 50 years old. These questions ask about the total number of children a woman has given birth to, the year of their first birth, and whether the respondent was married or cohabiting at the time of that first birth. Notably, in 2012, the sample of women who received the questions was expanded from all women aged 15 to 44 to all women aged 15 to 50, in order to match the age range of the ACS. The questions about the respondent's relationship status at first birth were also new to the survey in 2012. For more details about the CPS, including its sample size and questions, see <www.census.gov/cps/methodology/>.

Please note that although this report includes fertility rates, these estimates do not duplicate rates from administrative birth records due to differences in sampling and data collection methods. However, while survey data do not precisely replicate administrative birth rates, they do provide characteristics of mothers and their children that are not available in birth records. For more detail on the differences between the survey data and administrative birth records, please see the Source and Accuracy statement, as well as the Comparison to Other Data Sources, both of which are located at the end of this report.

The 2012 data are also affected by a change in the weights applied to respondents. Both the CPS and the ACS datasets were reweighted in 2012 to reflect the population changes seen in the 2010 Census. Of particular relevance for this report, the reweighting increased the estimate of the size of the Hispanic population in the United States. Given that Hispanic women have more children (see Tables 1 and 2) and are less likely to be childless (see Table 2), the changes in estimates for total childbearing and for childlessness from 2010 to 2012 in the CPS, and from 2011 to 2012 in the ACS, are larger than the changes seen over previous years, in part due to the change in weights. Realistically, any change in childbearing has occurred more gradually, but the weighting adjustment makes it appear as though all the change happened in a very short time.

#### **Completed Fertility**

Completed fertility refers to the number of children that a woman has given birth to when she reaches the end of her childbearing years. This information is used to examine trends in family size and patterns of childbearing. Many of the women in the CPS sample are still in their childbearing years and may have more children in the future. However, women over 40 are unlikely to have more children, and so their data are used to measure completed fertility.<sup>10</sup> Table 2 shows key fertility indicators for the 23.7 million women aged 40 to 50. On average, women aged 40 to 50 have had about two children each, and 16.1 percent are childless. Of those who are mothers, 8.2 percent have never been married.

Looking at completed fertility over time for women aged 40 to 44 shows how women's childbearing has changed (see Figure 1).<sup>11</sup> For example, the average total number of children born fell from about three children per woman (3,091 children per 1,000 women) in 1976 to about two children per woman (2,045 children per 1,000 women,

<sup>&</sup>lt;sup>10</sup> According to the 2012 ACS data, only 7.1 percent of births in the past year were to women over 40 (see Table 3; this number is obtained by adding the percentage of all births for women 40 to 44 years old and the percentage of all births for women 45 to 50 years old). Given this, we presume that the data about these women in the CPS represent completed fertility.

<sup>&</sup>lt;sup>11</sup> Prior to 2012, the CPS only collected fertility information for women up to age 44, so historical trends are examined using the population of women aged 40 to 44 in each survey.

roughly replacement-level fertility) in 1990.<sup>12, 13</sup> However, completed fertility in 2012 is higher than has been recorded in any CPS Fertility Supplement since 1995.<sup>14</sup>

These statistics vary by demographic characteristics. For

<sup>13</sup> The CPS surveys from 1976 to 1980 are not significantly different from each other.

<sup>14</sup> The estimates from the CPS surveys in 1995 and 2012 are not significantly different from each other. 2010, 2008, 2000, and 1998 are not significantly different from any year except 2012. 2006 is significantly different from 2012, 2002, and 1995, but not significantly different from all other years. The estimate from 2004 is not significantly different from any years except 2012 and 1995. example, Hispanic women aged 40 to 50 have had an average of 2.4 children, more than any other race or origin group shown, and only 12.7 percent are childless (see Table 2). Foreign-born women aged 40 to 50 have also given birth to more children (2.2 births, on average) than have native-born women (1.9 births, on average). This is particularly true for noncitizens (2.3 births, on average). Among women aged 40 to 50, women with lower education have had more children than have women with higher education, and the percentage of women with a graduate degree who are childless is twice that of

women with less than a high school degree.<sup>15</sup> Table 2 also shows that women in the labor force at the time of the survey have had fewer children overall than women not in the labor force: 1.9 children and 2.3 children, respectively.

#### **Childlessness Over Time**

As seen in Figure 2, we observe a drop in childlessness (measured as never having given birth to a child) from 2010 to 2012 for women

# Table 2. Completed Fertility for Women 40 to 50 Years Old by Selected Characteristics: June 2012

(Numbers in thousands)

		Children ever	Percentage of	_
Characteristic		born per	mothers who	Percent
	Total	1,000 women	are never married <sup>1</sup>	childless <sup>2</sup>
Total women 40 to 50	23,662	1,989	8.2	16.1
RACE AND HISPANIC ORIGIN				
White alone	18,375	1,974	5.0	16.3
White alone, non-Hispanic	15,105	1,880	3.6	17.1
Black alone	3,210	2,068	27.6	15.5
Asian alone	1,409	1,918	3.3	15.0
All other races, race combinations	669	2,172	12.1	16.1
Hispanic (any race)	3,684	2,372	11.1	12.7
NATIVITY AND CITIZENSHIP				
Native	19,196	1,930	8.3	17.2
Foreign born	4,466	2,241	7.7	11.4
Naturalized citizen	2,217	2,134	4.9	10.8
Not a citizen	2,248	2,347	10.6	12.0
EDUCATIONAL ATTAINMENT				
Not a high school graduate	2,257	2,621	17.4	11.6
High school graduate	6,446	2,074	10.1	13.0
Some college, no degree	4,005	1,962	8.8	15.1
Associate's degree	2,836	1,934	7.0	14.4
Bachelor's degree	5,357	1,805	3.6	19.9
Graduate or professional degree	2,762	1,725	4.0	22.7
LABOR FORCE STATUS				
In labor force	17,913	1,903	7.9	17.1
Employed	16,787	1,899	7.3	17.1
Unemployed	1,126	1,951	16.7	16.3
Not in labor force	5,749	2,258	9.2	13.0

<sup>1</sup> The denominator for each of these percentages is the total number of women who are mothers in the given race/ethnicity, nativity, educational attainment, or labor force category. The numerator is then number of mothers in that category who have never been married. These percentages show the percentage of mothers in each category who have never been married.

<sup>2</sup> The denominator for each of these percentages is the total number of women in the given race/ethnicity, nativity, educational attainment, or labor force category. The numerator is then number of women in that category who have never given birth. These percentages show the percentage of women in each category who have never given birth.

Source: U.S. Census Bureau, Current Population Survey, June 2012.

<sup>&</sup>lt;sup>12</sup> The number of children born per 1,000 women is used in order to compare fertility patterns between populations of different sizes.

<sup>&</sup>lt;sup>15</sup> The number of children born to women with a bachelor's degree is not significantly different from the number born to women with a graduate degree.

35 to 44 years old.<sup>16</sup> The drop for women 35 to 39 years old is 2.5 percentage points and for women 40 to 44 years old it is 3.7 percentage points.<sup>17</sup> Women aged 40 to 44 in 2012 had rates of childlessness that were not significantly different from those observed in 1992. These data suggest that the population of women aged 40 to 44 in 2012 were more likely to have had at least one child than were similar populations between 1994 and 2010. Furthermore, childlessness among women aged 35 to 39,

<sup>17</sup> There is no significant difference in the drop in childlessness from 2010 to 2012 between women aged 35 to 39 and women aged 40 to 44. which largely plateaued between 1994 and 2010, returned to 1992 levels in 2012.<sup>18</sup>

The percentage of women 30 to 34 years old in 2012 who were childless is not statistically different from the percent childless for this age group in any other CPS fertility supplement since 1994, with the exception of 2006 (see Figure 2).<sup>19</sup> These data suggest that although older women are less likely to be childless in 2012 than they were in recent years, childlessness among women in their early 30s has been relatively stable for almost 2 decades.

Some of the apparent drop in childlessness is due to the move to 2010-based weights for the 2012 CPS estimates. The CPS data are drawn from a sample of the population, and the data are then weighted to be representative at a national level. Following each decennial census, the weights for the CPS data are revised to more accurately reflect the current population of the United States. This means that the CPS Fertility Supplement weights between 2002 and 2010 were based on the 2000 Census counts (adjusted throughout the decade), while the 2012 CPS Fertility Supplement weights were based on the 2010 Census counts. The 2010 Decennial Census revealed a larger Hispanic population in the United States than was



<sup>&</sup>lt;sup>16</sup> A drop in childlessness means that more women have ever given birth to a child. However, as seen in the trends in completed fertility, the number of children each woman has is lower now than it was in the 1970s. Therefore, a drop in childlessness reflects an increase in the number of biological mothers, not necessarily an increase in the number of children.

<sup>&</sup>lt;sup>18</sup> Childlessness for women aged 35 to 39 in 2006 is not significantly different from the percent childless for the same age group in 2012; however, the 2012 estimate is significantly lower than all other estimates between 1994 and 2010, while the 2006 estimate is not significantly different from those estimates.

<sup>&</sup>lt;sup>19</sup> Childlessness for women aged 30 to 34 in 2012 is 2 percentage points higher than it was for the same group in 2006, a significant difference.

estimated for 2010 using the 2000based weights. As Hispanic women are more likely to be mothers than are non-Hispanic women (see Tables 1 and 2), the new 2010-based weights are likely responsible for at least some of the decline in the percentage of childless women. However, when White, non-Hispanic women (who make up the majority of women aged 15 to 50) are considered by themselves, we still see a significant decline in childlessness between 2010 and 2012 for women aged 35 to 44.20 This suggests that the drop in childlessness between 2010 and 2012 is not due solely to the switch to 2010-based weights.<sup>21</sup>

#### **BIRTHS IN THE PAST YEAR**

We use the ACS question about births in the past 12 months to examine characteristics of women who have had a birth in the prior year, as well as national- and statelevel patterns for the same.

Table 3 shows that, of the more than 76 million women<sup>22</sup> in the United States who were aged 15 to 50 in 2012, 4.1 million (5.4 percent) reported experiencing a birth in the previous 12 months. Proportionally, the fewest births were to women aged 45 to 50 (2.3 percent).

Births per 1,000 women in a given year represent a crude birth rate.<sup>23</sup> We observe the highest birth rates

<sup>22</sup> This number is slightly higher than the population reported based on CPS data because it includes the group quarters population, as well as differences in weighting. For more information, see "Accuracy of the Estimates."

<sup>23</sup> As stated in the section "Comparison to Other Data Sources," these data will not match NCHS's birth rates due to differences in sampling and data collection. for women in their late 20s and early 30s—103.3 and 103.2 births per 1,000 women, respectively (see Table 3).<sup>24</sup> The next highest birth rate is for women in their early 20s, at 79.1 births per 1,000 women. The lowest birth rates are observed for adolescent women and for women 40 and older.

More than 60 percent of women who reported a birth in the prior year were married at the time of the survey,<sup>25</sup> while about 30 percent of the women with a birth in the previous 12 months reported that they had never been married (see Table 3). However, relative to their respective populations, married women were significantly more likely to report a birth in the prior year than were women who had never been married.

Fertility levels also differed for women of different racial backgrounds (see Table 3). The lowest fertility rate in 2012 was for non-Hispanic White women (49 births per 1,000 women). The rate for Native Hawaiian or other Pacific Islanders was 79 births per 1,000 women. Black and Asian women both had a birth rate of 57 births per 1,000 women. American Indian or Alaska Native women had a birth rate of 66 births per 1,000 women.<sup>26</sup>

#### Nativity, Citizenship Status, and Hispanic Origin

Population growth is accomplished through immigration and fertility. In this section, fertility indicators are presented in terms of nativity, citizenship status, and Hispanic origin.

Based on ACS data in 2012, 21 percent of women 15 to 50 years old living in the United States who experienced a birth in the previous 12 months were born in another country (see Table 3). Approximately two-thirds of foreign-born women with a birth in the past year were not citizens of the United States (14.5 percent of all women with a birth in the 12 months prior to the survey). Overall, foreign-born women had birth rates of 68 births per 1,000 women, 17 births per 1,000 higher than that of native-born women (51 births per 1,000 women).

Hispanics are one of the fastest growing groups in the United States.<sup>27, 28</sup> According to the 2012 ACS data, Hispanic women aged 15 to 50 had 66 births per 1,000 women (see Table 3). Notably, more than half (52 percent) of the births to women of Hispanic descent were to women who were native-born citizens, while another 9 percent of the births to Hispanic women were to women who were naturalized citizens.<sup>29</sup>

#### **Educational Attainment**

Existing research suggests that women's fertility decisions and educational attainment are interrelated. Research suggests that, for some women, early entry into motherhood may force them to leave school or prevent them from obtaining further education.<sup>30</sup> In contrast, other research has shown that some women may delay childbearing in order to complete

<sup>&</sup>lt;sup>20</sup> This is a special calculation not shown in the figure.

<sup>&</sup>lt;sup>21</sup> We plan to investigate this further by applying 2010-based weights to the 2010 CPS Fertility Supplement data, which is currently weighted using 2000-based weights. We will compare the difference in estimates depending on the weights used, which will allow us to quantify the magnitude of the observed change in childlessness that is simply due to the revised weights.

<sup>&</sup>lt;sup>24</sup> Birth rates for women aged 25 to 29 and women aged 30 to 34 are not significantly different.

<sup>&</sup>lt;sup>25</sup> We do not know if the marriage preceded the birth, however, so we cannot say whether the births were to married women.

<sup>&</sup>lt;sup>26</sup> The fertility rate for American Indian or Alaska Native women is not significantly different from the rate for Native Hawaiian or other Pacific Islanders.

<sup>&</sup>lt;sup>27</sup> Census Bureau Press Release, "Asians Fastest-Growing Race or Ethnic Group in 2012, Census Bureau Reports," released June 13, 2013.

<sup>&</sup>lt;sup>28</sup> S.R. Ennis, M. Rios-Vargas, and N.C. Albert, "The Hispanic Population: 2010," 2010 Census Briefs, C2010BR-04, U.S. Census Bureau, Washington, DC, 2011.

<sup>&</sup>lt;sup>29</sup> This is a special calculation not shown in the table.

<sup>&</sup>lt;sup>30</sup> Marni, 1984.

#### Table 3.

## Women Who Had a Birth in the Past 12 Months Per 1,000 Women 15 to 50 Years Old by Selected Characteristics: 2012

(Data based on sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www/

				Women wh	o had a birth	n in the past	12 months	
Characteristic	Number of	fwomen	То	tal	Percent di	stribution <sup>2</sup>	Birth 1,000 v	s per vomen
Characteristic	Estimate	Margin of error <sup>1</sup> (±)	Estimate	Margin of error <sup>1</sup> (±)	Estimate	Margin of error <sup>1</sup> (±)	Estimate	Margin of error <sup>1</sup> (±)
Total	76,187,270	33,162	4,125,353	34,597	100.0	X	54.1	0.5
AGE								
15 to 19 years         20 to 24 years         25 to 29 years         30 to 34 years         35 to 39 years         40 to 44 years         45 to 50 years	10,504,417 10,964,399 10,487,164 10,401,742 9,813,118 10,616,865 13,399,565	25,569 19,784 13,555 11,091 35,792 35,444 26,447	224,867 867,363 1,083,239 1,073,091 584,180 199,729 92,884	7,746 17,615 17,055 18,163 12,139 7,036 4,924	5.5 21.0 26.3 26.0 14.2 4.8 2.3	0.2 0.4 0.4 0.3 0.2 0.1	21.4 79.1 103.3 103.2 59.5 18.8 6.9	0.7 1.6 1.6 1.7 1.2 0.7 0.4
MARITAL STATUS								
Ever married Currently married Not currently married Widowed Divorced Separated Never married	41,771,205 32,044,246 9,726,959 596,637 6,982,428 2,147,894 34,416,065	71,671 90,893 51,330 12,082 40,613 25,159 73,944	2,835,170 2,547,653 287,517 11,476 182,317 93,724 1,290,183	27,346 25,875 9,565 1,769 7,944 4,942 19,645	68.7 61.8 7.0 0.3 4.4 2.3 31.3	0.4 0.4 0.2 0.0 0.2 0.1 0.4	67.9 79.5 29.6 19.2 26.1 43.6 37.5	0.6 0.7 1.0 2.9 1.1 2.3 0.6
LIVING ARRANGEMENTS								
Living in own household Householder or spouse of householder Householder or unmarried partner of	48,809,085 32,529,124	88,289 99,326	3,153,869 2,268,106	28,955 24,972	76.5 55.0	0.4 0.4	64.6 69.7	0.6 0.7
householder	6,845,270	39,137	474,170	10,613	11.5	0.3	69.3	1.6
present Not living in own household Living in a household unit Living in group quarters	9,434,691 27,378,185 25,463,623 1,914,562	39,594 93,080 94,898 20,335	411,593 971,484 944,390 27,094	10,467 20,564 20,662 2,487	10.0 23.5 22.9 0.7	0.2 0.4 0.4 0.1	43.6 35.5 37.1 14.2	1.1 0.7 0.8 1.2
NATIVITY AND CITIZENSHIP								
Native . Foreign born Naturalized citizen Not a citizen	63,536,562 12,650,708 4,946,264 7,704,444	56,445 46,698 33,893 48,516	3,266,229 859,124 261,869 597,255	30,573 15,633 8,848 13,272	79.2 20.8 6.3 14.5	0.3 0.3 0.2 0.3	51.4 67.9 52.9 77.5	0.5 1.2 1.8 1.6
RACE AND HISPANIC ORIGIN								
White alone       White alone, non-Hispanic         Black alone       Marian Indian or Alaska Nativa	53,990,506 44,790,429 10,704,263	47,910 19,435 24,058	2,812,286 2,206,855 612,819	26,094 22,673 14,077	68.2 53.5 14.9	0.4 0.4 0.3	52.1 49.3 57.3	0.5 0.5 1.3
Aline Adam Alian of Alaska Native alone	662,889 4,544,112	9,581 15,964	43,599 259,018	2,451 8,987	1.1 6.3	0.1 0.2	65.8 57.0	3.6 2.0
Islander alone	153,665 4,037,343 2,094,492	5,327 40,302 27,111	12,107 272,804 112,720	2,070 8,651 5,179	0.3 6.6 2.7	0.0 0.2 0.1	78.8 67.6 53.8	13.1 2.2 2.4
The partic (any face)	14,102,302	13,440	901,798	10,379	22.0	0.3	00.1	1.1
EDUCATIONAL ATTAINMENT Not a high school graduate High school degree Some college or associate's degree Bachelor's degree Graduate or professional degree See notes at end of table.	13,559,177 16,491,867 25,635,902 13,863,148 6,637,176	50,560 62,775 76,836 57,137 42,371	634,956 951,327 1,322,329 778,838 437,903	15,781 19,313 18,531 14,858 11,030	15.4 23.1 32.1 18.9 10.6	0.4 0.4 0.3 0.3 0.3	46.8 57.7 51.6 56.2 66.0	1.1 1.1 0.7 1.1 1.6

#### Table 3.

### Women Who Had a Birth in the Past 12 Months Per 1,000 Women 15 to 50 Years Old by Selected Characteristics: 2012—Con.

(Data based on sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see *www.census.gov/acs/www/*)

				Women wh	o had a birth	n in the past	12 months	
Characteristic	Number of	fwomen	To	tal	Percent di	stribution <sup>2</sup>	Birth: 1,000 v	s per vomen
		Margin of		Margin of		Margin of		Margin of
	Estimate	error <sup>1</sup>	Estimate	error <sup>1</sup>	Estimate	error <sup>1</sup>	Estimate	error <sup>1</sup>
LABOR FORCE STATUS <sup>3</sup>								
In labor force	53,117,217	62,718	2,554,489	27,138	62.1	0.4	48.1	0.5
Employed	47,641,568	62,373	2,193,400	24,007	53.3	0.4	46.0	0.5
Unemployed	5,475,649	36,479	361,089	9,754	8.8	0.2	65.9	1.7
Not in labor force	21,048,842	63,105	1,560,459	19,685	37.9	0.4	74.1	0.9
POVERTY STATUS⁴								
Below 100 percent of poverty in the past								
12 months	14,048,306	73,226	1,147,296	18,656	27.9	0.4	81.7	1.3
Below 50 percent of poverty in the past								
12 months	7,042,190	52,892	623,076	12,342	15.1	0.3	88.5	1.7
100 percent to 199 percent of poverty in								
the past 12 months	14,250,924	67,769	895,366	13,902	21.8	0.3	62.8	0.9
200 percent or more above poverty in the								
past 12 months	46,204,874	95,274	2,070,233	24,818	50.3	0.4	44.8	0.5
PUBLIC ASSISTANCE								
Receiving public assistance	1,996,163	25,042	263,254	8,896	6.4	0.2	131.9	4.2
Not receiving public assistance	74,191,107	40,237	3,862,099	34,143	93.6	0.2	52.1	0.5

X Not applicable.

<sup>1</sup> This number, when added to or subtracted from the estimate, represents the 90 percent confidence interval around the estimate.

<sup>2</sup> The denominator for each of these percentages is the total number of women who had a birth in the past year. The numerator is the number of women in that specific age, marital status, living arrangement, nativity, race/ethnicity, educational attainment, labor force, poverty, or public assistance category who had a birth in the past year. These percentages describe the composition of the population of women who had births in the past year.

<sup>3</sup> Labor force data are only shown for the population 16 years old and over for which labor force status is determined. Excluded are the 2,021,211 women 15 years of age.

<sup>4</sup> Poverty is calculated at a family level for those living in families, and at an individual level for those not living in families. Data are only shown for women for whom poverty status can be determined, and therefore excludes those in institutional group quarters (such as prisons or nursing homes), college dormitories, military barracks, and those without conventional housing (and who are not in shelters). See <www.census.gov/hhes/www/poverty/about/overview/measure.html> for more details.

Source: U.S. Census Bureau, 2012 American Community Survey.

more education.<sup>31, 32</sup> Table 3 shows that about 32 percent of births in the prior year were to women with some college or an associate's degree, more than any other group. Fifteen percent of births in the prior year were to women who did not have a high school degree.

Figure 3 shows births by current age and education in more detail. Adolescent birth rates were highest among those with a high school diploma or GED.<sup>33</sup> Some of this may be due to the fact that 71 percent of

<sup>32</sup> C. Amuedo-Dorantes and J. Kimmel, "The Motherhood Wage Gap for Women in the United States: The Importance of College and Fertility Delay," *Review of Economics of the Household*, 2005, 3(1): 17–48.

<sup>33</sup> Birth rates are not significantly different between 15 to 19 year olds with less than a high school degree, some college, or a bachelor's degree or more. Among nonadolescent women, birth rates for women with less than a high school education peak in the early 20s and then fall across older ages (see Figure 3). In contrast, women with a bachelor's degree have the highest birth rate in their early 30s, reflecting the later entrance into motherhood among highly educated women.<sup>35</sup>

<sup>35</sup> For a review of the literature, see: M. Mills, R.R. Rindfuss, P. McDonald, et al., "Why do people postpone parenthood? Reasons and social policy incentives," *Human Reproduction Update*, 2011, 17(6): 848–860.

#### Economic Portrait of Women With Recent Births

Looking at the economic circumstances of women with recent births is important because research suggests that new mothers' economic well-being and labor force attachment have long-term implications. For example, some have argued that time out of the labor force following childbirth puts mothers at a lifelong economic disadvantage when compared to nonmothers.<sup>36</sup> From a different perspective, others have argued that the lack of universal maternity leave has meant that many women in the United States return to work soon after a birth. to the detriment of themselves and their newborns.37

<sup>&</sup>lt;sup>37</sup> J.C. Gornick and M.K. Meyers, *Families That Work: Policies for Reconciling Parenthood and Employment*, Russell Sage Foundation, New York, NY, 2005.



<sup>&</sup>lt;sup>31</sup> Z. Wu and L. Macneill, "Education, Work, and Childbearing After Age 30," *Journal of Comparative Family Studies*, 2002, 33(2): 191–213.

births to women in this age group were to women aged 18 or 19, who may have had a chance to finish high school prior to the birth.<sup>34</sup>

<sup>&</sup>lt;sup>34</sup> This is a special calculation not shown in the table.

<sup>&</sup>lt;sup>36</sup> Crittenden, 2001.



Still others have noted that the economic circumstances into which a child is born influence that child's cognitive development and future education and employment out-comes.<sup>38, 39</sup> The following section details the economic circumstances of mothers who had a birth in the past year, including their rates of labor force participation, poverty, and public assistance receipt.

In 2012, more than half of women with a birth in the previous 12 months (62 percent) were in the labor force (see Table 3), unchanged from 2008, the year the Census Bureau last released a report on women's fertility.<sup>40</sup> Fertility rates for women not in the labor force (74 births per 1,000 women) were considerably higher than those of employed women (46 births per 1,000).

Twenty eight percent of women with a birth in the prior year were living in poverty in 2012 (see Table 3), up from 25 percent in 2008. The fertility rate for women in poverty was 82 births per 1,000—higher than the fertility rate of those with incomes at 100 to 199 percent of poverty (63 births per 1,000) and almost twice as high as those with incomes at or above 200 percent of poverty (45 births per 1,000). In 2012, about 6 percent of women with a birth in the prior year were receiving public assistance, unchanged from 2008.

Figure 4 shows the percentage of women with a birth in the prior year who were in poverty by state. Generally speaking, states with higher poverty levels had higher percentages of births to poor women, while states with lower poverty had rates of births to poor women that were below the national average.<sup>41</sup> Mississippi and

<sup>&</sup>lt;sup>38</sup> Redd, Karver, Murphy, et al., 2011.

<sup>&</sup>lt;sup>39</sup> Moore, Redd, Burkhauser, et al., 2009.

<sup>&</sup>lt;sup>40</sup> J.L. Dye, "Fertility of American Women: 2008," *Current Population Reports*, P20-563, U.S. Census Bureau, Washington, DC, 2010.

<sup>&</sup>lt;sup>41</sup> For additional information on poverty in U.S. states, see the following: A. Bishaw, "Areas With Concentrated Poverty: 2006– 2010," *American Community Survey Briefs*, ACSBR/10-17, U.S. Census Bureau, Washington, DC, 2011, and A. Bishaw, "Poverty: 2000–2012," *American Community Survey Briefs*, ACSBR/12-01, U.S. Census Bureau, Washington, DC, 2013.



Montana were among the states with the highest percentages of births to women in poverty, both around 40 percent. Connecticut and Utah were among the states with the lowest rates; 18 percent of women with a birth in the prior year in both of these states were in poverty (see Appendix Table A for the numbers for each state).

#### Residential Portrait of Women With Recent Births

The characteristics of families and households have become more diverse in recent years. For example, many have noted an increase in the number of Americans living in combined households since 2007, and within that, others have noted an increase in multigenerational households.<sup>42, 43</sup> Additionally, recent research suggests that nonmarital births are increasingly occurring to women in cohabiting relationships.<sup>44</sup> The following section details the living arrangements of women who gave birth in the year prior to the survey.

<sup>43</sup> D.A. Lofquist, "Multigenerational Households: 2009–2011," *American Community Survey Brief*, ACSBR/11-03, U.S. Census Bureau, Washington, DC, 2012.

<sup>44</sup> A. Chandra, G.M. Martinez, W.D. Mosher, et al., "Fertility, Family Planning, and Reproductive Health of U.S. Women: Data From the 2002 National Survey of Family Growth," National Center for Health Statistics, Vital Health Statistics, 2005, 23(25). In 2012, more than three-quarters of women with a birth in the previous 12 months reported that they were living in their own home; 55 percent were either a married householder or the spouse of the householder (see Table 3).<sup>45</sup> Twelve percent were in a cohabiting relationship, and 10 percent did not have a spouse or partner present.

Notably, more than one in five women with a birth in the previous 12 months reported that they were living in someone else's home at the time of the survey (see Table 3). Most (70 percent) of the women with recent births who lived in someone else's home were the child of the householder; that is, the

<sup>&</sup>lt;sup>42</sup> Combined households are defined as households that include at least one additional adult (over 18 and not in school) who is neither the householder nor the spouse or cohabiting partner of the householder; see L. Mykyta and S. Macartney, "The Effects of Recession on Household Composition: Doubling Up and Economic Well-Being," *SEHSD Working Paper #2011-4*, U.S. Census Bureau, Washington, DC, 2011.

<sup>&</sup>lt;sup>45</sup> The "householder" is the person in whose name the home is owned or rented.

daughter of the person who owns or rents the home.<sup>46</sup>

Figure 5 shows the states in which women with a recent birth were more or less likely to live in someone else's home. It shows a concentration of higher than average numbers of new mothers living in someone else's home in states in the South, as well as higher than average levels of shared households in California and New York, states with high costs of housing.47 When Figure 5 is compared to a map of multigenerational households (households in which at least three generations live together), many of the same states stand out, suggesting that these two trends have significant geographic overlap.48

#### **Births to Young Women**

Vital Statistics data show that births to adolescents are currently at historic lows, having been more than halved since 1991.<sup>49</sup> CPS data reflect this decline since 2008, as demonstrated by the rise in childlessness among women aged 15 to 19 from 93.7 percent in 2008 to 94.9 percent in 2012 (see Table 1).<sup>50</sup>

However, recent research shows that adolescent parenthood continues to be linked to poverty, low academic achievement, and familial instability.<sup>51, 52</sup> Additional evidence suggests that many of the negative

<sup>51</sup> S.D. Hoffman and R.A. Maynard, (eds.), *Kids Having Kids: Economic Costs and Social Consequences of Teen Pregnancy*, 2nd Edition, Urban Institute Press, Washington, DC, 2008.

<sup>52</sup> E. Terry-Humen, J. Manlove, and K.A. Moore, "Playing Catch-Up: How Children Born to Teen Mothers Fare," National Campaign to Prevent Teen Pregnancy, Washington, DC, 2005. repercussions of adolescent pregnancy are also present for women who become mothers in their early 20s.<sup>53</sup> The reasons offered for the persistence of poor outcomes, even for young mothers who are not adolescents, are varied, including high rates of unintended pregnancy among young women, as well as lower educational attainment, high rates of nonmarital births, and lower levels of workforce attachment on the part of young mothers. <sup>54, 55, 56, 57</sup>

Neither the ACS nor the CPS can be used to examine the long-term effects of women giving birth when they are young. However, in light of concerns about early entry into motherhood, these data can offer more information about the population of young women (women aged 15 to 22) who have experienced a recent birth.

Out of the roughly 17 million women aged 15 to 22 in 2012, about 727 thousand (4 percent) reported a birth in the past year (see Table 4), constituting 18 percent of all births in the previous 12 months. The vast majority of women aged 15 to 22 who experienced a birth in the prior year were never married (73 percent). Of the 27 percent who reported being ever married, most were married at the time of the survey. Forty

<sup>54</sup> L.B. Finer and S.K. Henshaw, "Disparities in Rates of Unintended Pregnancy in the United States, 1994 and 2001," *Perspectives on Sexual and Reproductive Health*, 2006, 38(2): 90–96.

<sup>55</sup> K. Perper, K. Peterson, and J. Manlove, "Child Trends Fact Sheet: Diploma Attainment Among Teen Mothers," *Child Trends*, Washington, DC, 2010.

<sup>56</sup> S.J. Ventura and C.A. Bachrach, "Nonmarital Childbearing in the United States, 1940–99," *National Vital Statistics Reports*, 48(16), National Center for Health Statistics, Hyattsville, MD, 2000.

<sup>57</sup> Miller, 2009.

percent of the women aged 15 to 22 who had a birth in the prior year reported living in their own households; 16 percent were living with a spouse, another 14 percent were cohabiting, and 9 percent did not have a spouse or partner in the household. However, 60 percent of young women with a birth in the prior year lived in someone else's home, three out of four of whom were living with their own parent or parents.<sup>58</sup>

Ninety percent of women aged 15 to 22 who had a birth in the prior year were native born, while another 2 percent were naturalized citizens (see Table 4). White women comprise the largest group of young women with a birth in the past year (61 percent); 29 percent of young women with a birth in the past year were Hispanic (regardless of race), while 23 percent were Black, and one percent were Asian.

Although not all women in this age group who had a birth in the prior year were old enough to have completed a college degree or, in some cases, even high school, the majority (91 percent) were 18 years old or older. 59 Therefore, given the age distribution, it is not surprising that 69 percent had a high school degree or more and one-third reported some college (see Table 4). Fifty-four percent of young women with a birth in the past year were in the labor force,60 while 37 percent were employed at the time of the survey.

While only 10 percent of young mothers who gave birth in the prior year received public assistance,

<sup>&</sup>lt;sup>46</sup> This is a special calculation not shown in the table.

<sup>&</sup>lt;sup>47</sup> Calculated from table S2506 ACS 2012 1-year estimates on American FactFinder.

<sup>&</sup>lt;sup>48</sup> For a map of the prevalence of shared households, see Figure 3 of S. Macartney and L. Mykyta, "Poverty and Shared Households by State: 2011," *American Community Survey Brief*, ACSBR/11-05: U.S. Census Bureau, Washington, DC, 2012.

<sup>&</sup>lt;sup>49</sup> Martin, et al., 2013.

<sup>&</sup>lt;sup>50</sup> See Table 1 of Dye, 2010.

<sup>&</sup>lt;sup>53</sup> J. Manlove, E. Terry-Humen, L. Mincielli, et al., "Outcomes Among Children of Teen Mothers at Kindergarten Entry and Through Adolescence: Analyses of Recent Data," Invited chapter in R. Maynard, and S. Hoffman, (eds.), *Kids Having Kids: Economic Costs and Social Consequences of Teen Pregnancy*, 2nd edition, Urban Institute Press, Washington, DC, 2009.

<sup>&</sup>lt;sup>58</sup> The proportion living with parents is a special calculation using the population of young women who were not living in their own household but were living in a household unit.

<sup>&</sup>lt;sup>59</sup> This is a special calculation not shown in the table.

<sup>&</sup>lt;sup>60</sup> This estimate includes those employed and working, employed but on maternity leave, and those who are not employed but are looking for work.

# Table 4.Young Women (Aged 15 to 22) Who Had a Birth in the Past 12 Months by SelectedCharacteristics: 2012

(Data based on sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see *www.census.gov/acs/www/*)

	Number (	ofwomen	V	Vomen 15 to birth in the pa	22 who had a st 12 months	
Characteristic		N WOITICH	Tot	al	Percent di	stribution <sup>2</sup>
	Estimate	Margin of error <sup>1</sup>	Estimate	Margin of error <sup>1</sup>	Estimate	Margin of error <sup>1</sup>
Total	17,362,834	45,889	727,069	16,639	100.0	Х
MARITAL STATUS						
Ever married Currently married Not currently married Never married	888,944 779,763 109,181 16,473,890	15,402 13,603 6,305 48,676	193,407 175,153 18,254 533,662	7,671 7,409 2,259 13,848	26.6 24.1 2.5 73.4	0.9 0.9 0.3 0.9
LIVING ARRANGEMENTS						
Living in own household	1,998,209 716,385 646,822 635,002 15,364,625 13,887,405 1,477,220	23,806 15,447 14,650 11,331 49,442 47,776 15,139	288,053 116,554 105,035 66,464 439,016 429,089 9,927	10,098 5,934 6,055 4,453 11,922 11,782 1,594	39.6 16.0 14.4 9.1 60.4 59.0 1.4	1.0 0.7 0.6 1.0 1.0 0.2
NATIVITY AND CITIZENSHIP						
Native	15,981,513 1,381,321 367,998 1,013,323	44,156 21,190 10,393 19,169	654,490 72,579 10,971 61,608	15,675 4,943 2,070 4,484	90.0 10.0 1.5 8.5	0.6 0.6 0.3 0.6
BACE AND HISPANIC ORIGIN						
White alone       White alone, non-Hispanic         Black alone       Asian alone         Asian alone       All other races, race combinations         Hispanic (any race)       All other races	11,953,843 9,651,172 2,652,621 818,125 1,938,245 3,590,221	32,534 24,350 19,055 10,554 23,191 17,088	443,859 309,352 166,317 9,614 107,279 213,004	11,987 9,736 8,161 1,449 5,626 7,739	61.0 42.5 22.9 1.3 14.8 29.3	1.0 0.9 1.0 0.2 0.7 0.8
EDUCATIONAL ATTAINMENT						
Not a high school graduate	7,470,791 3,295,535 6,083,986 512,522	26,446 27,406 37,552 10,790	225,579 259,302 234,808 7,380	8,434 10,182 8,588 1,490	31.0 35.7 32.3 1.0	1.0 1.1 0.9 0.2
LABOR FORCE <sup>3</sup>						
In labor force	7,987,398 6,422,713 1,564,685 7,354,225	40,576 36,081 23,427 36,010	387,077 264,631 122,446 329,587	11,143 9,986 5,600 9,576	54.0 36.9 17.1 46.0	0.8 1.0 0.7 0.8
POVERTY STATUS <sup>4</sup> Below 100 percent of poverty in the past 12 months Below 50 percent of poverty in the past 12 months 100 to 199 percent of poverty in the past 12 months 200 percent or more of poverty in the past 12 months	4,169,445 2,287,596 3,438,315 8,332,610	40,705 30,059 34,530 41,762	344,351 202,532 193,677 183,432	10,574 7,595 7,020 8,090	47.7 28.1 26.8 25.4	0.9 0.8 0.8 0.9
PUBLIC ASSISTANCE Receiving public assistance	246,389 17,116,445	7,721 46,127	72,858 654,211	5,024 16,742	10.0 90.0	0.7

X Not applicable.

<sup>1</sup> This number, when added to or subtracted from the estimate, represents the 90 percent confidence interval around the estimate.

<sup>2</sup> The denominator for each of these percentages is the total number of young women who had a birth in the past year. The numerator is the number of young women in that specific marital status, living arrangement, nativity, race/ethnicity, educational attainment, labor force, poverty, or public assistance category who had a birth in the past year. These percentages describe the composition of the population of young women who had births in the past year.

<sup>3</sup> Labor force data are only shown for the population 16 years old and over for which labor force status is determined. Excluded are the 2,021,211 women 15 years of age.

<sup>4</sup> Poverty is calculated at a family level for those living in families, and at an individual level for those not living in families. Data are only shown for women for whom poverty status can be determined, and therefore excludes those in institutional group quarters (such as prisons or nursing homes), college dormitories, military barracks, and those without conventional housing (and who are not in shelters). See <www.census.gov/hhes/www/poverty/about/overview/measure.html> for more details.

Source: U.S. Census Bureau, 2012 American Community Survey.

they had comparatively high rates of poverty (see Table 4). The nation's official poverty rate was 15 percent in 2012,<sup>61</sup> but 48 percent of young women with a birth in the prior year lived in households that were in poverty, and 28 percent were in extreme poverty (below 50 percent of the Federal Poverty Line).

Figure 6 shows states that had higher or lower proportions of young women with a recent birth than the nation overall. Births to young mothers (less than 23 years old at the time of the survey) are generally most prevalent in the states with the highest levels of poverty.<sup>62</sup> However, the prevalence of births to young mothers is also likely linked to the age distribution of the populations in these states. The low percentage of births to young women in Florida is likely due to the fact that Florida has a higher than average median age, while the higher than average percentage of births to young women in Texas likely reflects the fact that Texas has a lower than average median age.<sup>63</sup>

#### **RELATIONSHIP STATUS AT FIRST BIRTH OVER TIME**

In addition to total fertility, we examine changes over time in women's relationship status at first birth. This information comes from newly available CPS data on marriage and cohabitation at the time of entry into motherhood. As in years past, the CPS Fertility Supplement asks women how many children they have ever had. However, in an effort to reduce redundancy with the ACS, the focus of the remaining questions is now on the first birth, rather than the most recent birth. For women 15 to 50 years old who report having given birth, the CPS now asks about the year of their first birth and whether they were married or cohabiting at that birth.



<sup>&</sup>lt;sup>61</sup> C. DeNavas-Walt, B.D. Proctor, J.C. Smith, "Income, Poverty, and Health Insurance Coverage in the United States: 2012," *Current Population Reports*, P60-245, U.S. Census Bureau, Washington, DC, 2013.

<sup>&</sup>lt;sup>62</sup> See Bishaw, 2013 and Bishaw, 2011. <sup>63</sup> For a map of relative median age by state, see Figure 5 of L. Howden and J. Meyer, "Age and Sex Composition: 2010," *2010 Census Briefs*, C2010BR-03, U.S. Census Bureau, Washington, DC, 2011.

Women's relationship contexts at the time of the first birth are related to later circumstances for both mothers and their children. Research shows that women with a nonmarital first birth are both less likely to ever marry and less likely to remain married if they do marry.64 Furthermore, researchers have found that women with a nonmarital birth are more likely to be poor, and their children are more likely to spend time in a single-parent family.65,66 However, research has demonstrated that nonmarital births are not necessarily births to unpartnered mothers; other data have shown that increasing numbers of unmarried mothers live with a cohabiting partner at the time of the birth.67, 68, 69 The new CPS questions allow us to examine relationship status at first birth, as well as changes in relationship status over time for different groups of women.

Figure 7 shows that, although the majority of first births continue to occur in marital relationships, there is a clear decline in marital first births since the early 1990s, from 70 percent for women whose first birth was between 1990 and 1994, to 55 percent for women whose first birth was in 2005 or later.<sup>70</sup>

<sup>66</sup> Upchurch, Lillard, and Panis, 2001.

between 1995 and 1999 is not significantly different from the percent married at first birth in the groups either before (1990 to 1994) or after (2000 to 2004).





Additionally, prior to the mid 1990s, more first births occurred to women who were neither married nor cohabiting than to women who were cohabiting. However, since 1995, first births to cohabiting couples have consistently surpassed those to women who were neither married nor cohabiting. These data reinforce others' findings about the rise in cohabitation as a family form.<sup>71</sup>

The drop in marital births over time is especially striking among women who became mothers at a young age; the percentage of women who were both younger than 23 years old and married at the time their first child was born declines significantly in each cohort observed (see Figure 8).<sup>72</sup>

As noted above, although adolescent pregnancy is at record lows,<sup>73</sup> research shows that later circumstances are related to age at first birth.<sup>74</sup> Some researchers have noted that the implications of early entry into motherhood likely relate to young women's circumstances at the time that they became mothers.<sup>75</sup> Therefore, it is important to look at the relationships that young women have at the time of their first births, and how those relationship patterns have changed over time.

We find that although at least half of all first births to young mothers

<sup>&</sup>lt;sup>64</sup> D.M. Upchurch, L.A. Lillard, and C. Panis, "The Impact of Nonmarital Childbearing on Subsequent Marital Formation and Dissolution," In *Out of Wedlock: Causes and Consequences of Nonmarital Fertility*, edited by L.L. Wu and B. Wolfe, Russell Sage Foundation, New York, NY, 2001.

<sup>&</sup>lt;sup>65</sup> L.L. Wu and B. Wolfe, (eds.), *Out of Wedlock: Causes and Consequences of Nonmarital Fertility*, Russell Sage Foundation, New York, NY, 2001.

<sup>&</sup>lt;sup>67</sup> L.L. Bumpass and H. Lu, "Trends in Cohabitation and Implications for Children's Family Contexts in the United States," *Population Studies*, 2000, 54(1).

<sup>&</sup>lt;sup>68</sup> L.L. Bumpass and R.K. Raley, "Redefining Single Parent Families: Cohabitation and Changing Family Reality," *Demography*, 1995, 32(1).

 <sup>&</sup>lt;sup>69</sup> Chandra, Martinez, Mosher, et al., 2005.
 <sup>70</sup> The percent married at first birth

<sup>&</sup>lt;sup>71</sup> See, for example, G.M. Martinez, K. Daniels, and A. Chandra, "Fertility of Men and Women Aged 15–44 Years in the United States: National Survey of Family Growth, 2006–2010," *National Health Statistics Reports*; Number 51, National Center for Health Statistics, Hyattsville, MD, 2012.

<sup>&</sup>lt;sup>72</sup> This group includes women whose first birth occurred when they were aged 12 to 22.

 <sup>&</sup>lt;sup>73</sup> Martin, Hamilton, Osterman, et al., 2013.
 <sup>74</sup> Hoffman and Maynard, 2008; Terry-Humen, Manlove, and Moore, 2005.

<sup>&</sup>lt;sup>75</sup> S.D. Hoffman, "Teenage Childbearing Is Not So Bad After All Or Is It? A Review of the New Literature," *Family Planning Perspectives*, 1998, 30(5): 236–43.

occurred in marriage prior to 1994, one-quarter of first births to young mothers since 2005 were in the context of a marital relationship (see Figure 8). The growth in cohabitation as a context for first birth has roughly paralleled the decline in marriage; of this same group of recent young mothers (since 2005), more mothers were cohabiting (38 percent) than were married (24 percent) at the time of their first birth.<sup>76</sup>

In comparison with all mothers (see Figure 7), young mothers are more likely to have had their first birth when they were neither married nor cohabiting (see Figure 8). Among young mothers who had their first birth between 2005 and June of 2012, 38 percent were neither married nor cohabiting at the time of the first birth.77 Although some research suggests that many women who are not living with a partner at the time of the birth are still romantically involved with the father of their child, other research also suggests that when parents do not live together, they are less likely to stay together as a couple.78,79

Table 5 presents relationship patterns for groups of women who had their first births around the same time (referred to as "cohorts"), and it shows significant changes over time. While at least half of all women were married at their first birth in all cohorts, 68 percent of women who gave birth 20 or more years prior to the survey were married at the time of their first birth,

<sup>79</sup> Bendheim-Thoman Center for Research on Child Wellbeing, "Diversity Among Unmarried Parents," *Fragile Families Research Brief* #10, Princeton University, 2002.



but only 52 percent of women in the most recent cohort were married.<sup>80</sup> As first births to married mothers have declined, births to cohabiting mothers have increased.<sup>81</sup> About 14 percent of mothers who gave birth more than 20 years prior to the survey were cohabiting, compared with 25 percent of mothers who had a first birth in the 5 years prior to the survey.

There is also a great deal of variation by women's age at first birth (see Table 5). For example, the majority of adolescent births 20 or more years prior to the survey occurred to women who were married, while the majority of adolescent births fewer than 5 years prior to the survey occurred to women who were neither married nor cohabiting.<sup>82</sup> However, across all cohorts, women who had a first birth before age 25 were less likely to be married than women who were 25 or older. Additionally, at least three-quarters of all first births to mothers 25 or older have consistently occurred in marriage.

We also observe changes over time by race and Hispanic origin (see Table 5). For example, roughly four out of five Asian women were married at first birth in all cohorts.<sup>83</sup> In contrast, at least three out of four first births to non-Hispanic White women occurred in marriage

<sup>&</sup>lt;sup>76</sup> The years of 1995 to 1999 and 2000 to 2004 are not significantly different from each other.

<sup>&</sup>lt;sup>77</sup> The percent cohabiting was not significantly different from the percent who were neither married nor cohabiting.

<sup>&</sup>lt;sup>78</sup> Bendheim-Thoman Center for Research on Child Wellbeing, "Parents' Relationship Status Five Years After a Nonmarital Birth," *Fragile Families Research Brief* #39, Princeton University, 2007.

<sup>&</sup>lt;sup>80</sup> The most recent cohort of women consists of women who had their first birth in the 5 years prior to the survey.

<sup>&</sup>lt;sup>81</sup> Cohabitation at first birth was not significantly different between the cohort of women who gave birth 10 to 14 years prior to the survey and the cohort who gave birth 15 to 19 years prior to the survey.

<sup>&</sup>lt;sup>82</sup> The percentage of women who were married at first birth more than 20 years prior to the survey and the percentage of women who were neither married nor cohabiting at first birth fewer than 5 years before the survey were not significantly different from each other.

<sup>&</sup>lt;sup>83</sup> Marriage at first birth was not significantly different between any cohorts of Asian mothers.

Table 5.

# Relationship Status at First Birth by Selected Characteristics Over Time: June 2012 (Numbers in thousands)

	20 ( sir	or more ye nce first bir	ars th	15 sin	to 19 yea ce first bir	th	10 sin	) to 14 yea Ice first bir	th	5 Sin	to 9 years ce first bir	۴ »	Less sin	than 5 ye ce first bir	ars :h
Characteristic	Married at first birth	Living with unmar- ried partner at first birth	Neither married nor living with a partner at first birth	Married at first birth	Living with unmar- ried partner at first birth	Neither married nor living with a partner at first birth	Married at first birth	Living with unmar- ried partner at first birth	Neither married nor living with a partner at first birth	Married at first birth	Living with unmar- ried partner at first birth	Neither married nor living with a partner at first birth	Married at first birth	Living with unmar- ried partner at first birth	Neither married or living with a partner at first birth
ALL WOMEN Total	. 8,091 68.1	<b>1,640</b> 13.8	<mark>2,146</mark> 18.1	<b>5,581</b> 68.7	<b>1,397</b> 17.2	<b>1,151</b> 14.2	<mark>5,677</mark> 66.5	<b>1,584</b> 18.6	<b>1,273</b> 14.9	<b>5,262</b> 61.5	<b>1,939</b> 22.7	<b>1,357</b> 15.9	<mark>3,691</mark> 51.6	<b>1,822</b> 25.5	<b>1,636</b> 22.9
AGE AT FIRST BIRTH <sup>1</sup> Younger than 20 years <sup>2</sup> 20 to 24 years           25 to 29 years           30 to 34 years           35 to 39 years           40 years or older <sup>3</sup>	51.1 86.9 82.7 N N N	19.7 13.1 6.5 N N N	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	39.8 65.7 85.0 85.1 87.6 N	33.2 18.9 8.3 12.4 N	27.1 15.4 6.7 0.0 N	34.1 54.7 85.0 85.0 89.8 87.8 100.0	26.9 26.9 9.9 4.2 0.0	31.5 18.4 5.0 6.1 7.9 0.0	20.0 45.6 79.4 89.3 82.6 81.5	40.9 36.1 6.5 8.3 7.5	39.2 18.3 8.2 9.2 11.0	13.9 31.2 70.4 81.1 79.9	35.3 36.9 19.2 10.4 8.5	50.9 32.0 6.2 8.5 11.6
RACE <sup>1</sup> White alone	76.0 79.4 34.4 81.9 49.8	11.7 9.6 21.3 8.2 8.2	12.3 10.9 10.0 21.5	73.8 78.0 40.7 88.8 46.7	15.9 12.5 3.8 31.0	10.3 9.5 34.1 7.4 22.3	71.1 74.5 35.7 87.5 48.6	17.8 15.5 27.6 5.7 24.0	11.2 10.0 36.7 6.8 27.5	65.6 71.8 30.5 88.7 46.1	23.2 19.3 8.0 31.6	11.1 8.9 3.3 22.3	56.4 60.7 21.0 86.3 30.2	26.1 25.0 24.9 8.9 42.6	17.5 14.3 54.1 4.9 27.2
HISPANIC ORIGIN¹ Hispanic (any race)	. 64.1 . 69.2	18.9 12.5	17.1 18.3	60.4 70.7	26.5 14.9	13.2 14.4	59.1 68.6	26.3 16.5	14.6 15.0	47.3 65.3	35.3 19.2	17.4 15.4	40.8 54.4	30.6 24.2	28.6 21.4
NATIVITY AND CITIZENSHIP <sup>1</sup> Native born	66.9 72.9 75.8	13.2 16.3 13.2 18.8	19.9 10.8 11.0	67.3 73.7 80.1 68.7	17.7 15.3 13.1 17.1	15.0 11.0 6.9 14.2	64.5 74.0 81.5 68.9	19.1 16.6 11.5 20.0	16.4 9.5 7.0	58.9 71.8 84.5 64.8	23.6 19.1 10.3 24.0	17.6 9.1 5.3 11.2	48.8 66.1 79.2 60.7	26.9 18.2 12.2 20.8	24.3 15.6 8.7 18.6

<sup>1</sup> N Not available. Increate no women in sample eligible to meet this criteria.
<sup>1</sup> The domainator for each of these percentages is the total number of women in the given childbearing cohort and age at first birth, race, ethnic origin, or nativity/citizenship category. The numerator is the number of women in the given childbearing cohort, the percentages will sum to 100 percent, and show how women's relationships at first birth have changed over time.
<sup>2</sup> Includes women aged 12 to 19 at first birth.
<sup>3</sup> Includes women aged 40 to 50 at first birth.
Source: U.S. Census Bureau, Current Population Survey, June 2012.

until the most recent two cohorts, when the percent married at first birth fell to 72 percent for those whose first birth was 5 to 9 years prior to the survey, and 61 percent for those in the most recent cohort.84 Black women had the lowest percentages of women married at first birth in all cohorts. Sixtyfour percent of Hispanic women who gave birth more than 20 years prior to the survey were married at first birth, while 41 percent of the Hispanic women who gave birth in the 5 years prior to the survey were married at first birth.85

One quarter of both Black and non-Hispanic White women whose first birth was in the 5 years prior to the survey were cohabiting at the time of the first birth (see Table 5).86 Across all but the most recent cohort, cohabitation at first birth was more common among Hispanic women than it was among non-Hispanics.87 Among first births within the 9 years prior to the survey, native-born women were more likely than foreign-born women to have been cohabiting at the time of the birth.

Between 9 and 11 percent of non-Hispanic White women were neither married nor cohabiting at the time of their first birth up until the most recent cohort, but for those whose

<sup>85</sup> The percent married at first birth was not significantly different between the cohorts that gave birth 10 or more years prior to the survey for Hispanic mothers. The percent married at first birth was also not . significantly different between the cohort that gave birth 5 to 10 years prior to the survey and the cohort that gave birth less than 5 years before the survey for Hispanic mothers.

<sup>86</sup> Cohabitation at first birth was not significantly different between Black and non-Hispanic White mothers in the cohort that gave birth within 5 years of the survey.

<sup>87</sup> Cohabitation at first birth was not significantly different between Hispanic and non-Hispanic mothers in the cohort that gave birth 5 or less years prior to the survey.

first birth was fewer than 5 years prior to the survey, the number rose to 14 percent (see Table 5).88 Although at least a third of Black women were neither married nor cohabiting at first birth in all cohorts, half of Black women in the most recent cohort were neither married nor cohabiting at first birth. The percentage of Hispanic women who had a first birth while neither married nor cohabiting did not vary significantly among earlier cohorts; however, 29 percent of Hispanic women who had their first birth in the 5 years prior to the survey were neither married nor cohabiting.

Foreign-born women consistently had a higher percentage of their first births in marriage than did native-born women, as well as a lower percentage of first births to women who were neither married nor cohabiting (see Table 5).

#### **Relationship Status at First Birth and Later Life** Circumstances

Research shows that women's relationship status at their first birth is correlated with later life circumstances. Some of this is probably related to women's other circumstances at the time of their first birth. For example, researchers have found that nonmarital births tend to be concentrated among women facing disadvantages, such as lower education and higher poverty.<sup>89, 90</sup> However, additional

<sup>89</sup> S.D. Hoffman and E.M. Foster, "Economic Correlates of Nonmarital Childbearing Among Adult Women," Family Planning Perspectives, 1997, 29(3).

90 D.M. Upchurch, L.A. Lillard, and C.W.A. Panis, "Nonmarital Childbearing; Influences of Education, Marriage, and Fertility," Demography, 2002, 39(2).

evidence suggests that nonmarital births also contribute to continued poverty and disadvantage later.<sup>91</sup> The CPS data allow us to examine this relationship in more depth.

Statistical models were run to examine the association between women's relationship status at first birth and their circumstances at the time of the survey. These models generate predictions of the chance that someone with a given history will experience a given event while accounting for other characteristics that are also related to women's circumstances (such as their age and number of children).

Four logistic regression models (see About Regression Analysis) were used to predict four different outcomes in two areas that are important for the well-being of children and families: economic well-being and family stability. A large body of research demonstrates that poverty is associated with negative outcomes for children, adults, and families, affecting children's academic performance, women's health, and family stability.<sup>92, 93, 94</sup> However, because the CPS fertility data do not include a direct measure of poverty, educational attainment and labor force attachment were used as approximations of economic well-being. To measure the importance of first-birth circumstances for later economic well-being, we predicted the likelihood that a woman had a high school diploma, as well as whether

<sup>&</sup>lt;sup>84</sup> The percent married at first birth was not significantly different between the cohort that gave birth 10 to 14 years prior to the survey and the cohort that gave birth 15 to 19 years prior to the survey for non-Hispanic, White mothers.

<sup>&</sup>lt;sup>88</sup> There were no significant differences between any of the cohorts of women who were neither married nor cohabiting at first birth in the cohorts 5 or more years prior to the survey. However, all cohorts of women who were neither married nor cohabiting at first birth in the cohorts 5 or more years prior to the survey are significantly different from the most recent cohort of women who were neither married nor cohabiting at first birth.

<sup>&</sup>lt;sup>91</sup> For a review of recent literature on the topic. see S. McLanahan and C. Percheski, "Family Structure and the Reproduction of Inequalities," Annual Review of Sociology, 2008, 34: 257-276.

<sup>&</sup>lt;sup>92</sup> Moore, Redd, Burkhauser, et al., 2009.

<sup>&</sup>lt;sup>93</sup> M. Cohen, "Impact of poverty on women's health," *Canadian Family Physician*, 1994, 40: 949-958.

<sup>&</sup>lt;sup>94</sup> A. Lewen, "The effect of economic stability on familial stability among welfare recipients," Evaluation Review, 2005, 29(30): 223-240.

#### **ABOUT REGRESSION ANALYSIS**

Regression analysis is a statistical technique used to estimate the relationships between a dependent variable, or outcome, and one or more independent, or predictor, variables. For example, a person's level of education likely predicts their income, but other factors, such as years of work experience, also matter. Regression models allow researchers to identify the size of the relationship between education and income, while also taking years of experience and other factors into account.

Logistic regression is a specific type of regression model used to predict a dichotomous, or two-way, categorical outcome (for example, "employed" vs. "not employed"). Because the model is predicting a binary outcome (either true or not true), logistic regression produces a measure of the natural logarithm of the odds of the outcome being true, given the other variables being accounted for.

a woman was unemployed at the time of the survey.<sup>95</sup>

Family instability is defined as changes in the composition of a family that are not caused by either birth or death and, like poverty, it is negatively associated with the wellbeing of both children and adults. Other research has linked parents' relationship instability to higher levels of problem behavior, lower levels of high school completion, and decreased emotional wellbeing in their children.<sup>96, 97, 98, 99</sup> For adults, relationship instability has been linked to economic insecurity,

<sup>96</sup> S.E. Cavenaugh and A.C. Huston, "Family Instability and Children's Early Problem Behavior," *Social Forces*, 2006, 85: 551–581.

<sup>98</sup> P. Suet-Ling and J. Dong-Beom, "The Effects of Change in Family Structure and Income on Dropping Out of Middle and High School," *Journal of Family Issues*, 2000, 21: 147–169.

<sup>99</sup> L.L. Wu and E. Thomson, "Race Differences in Family Experience and Early Sexual Initiation: Dynamic Models of Family Structure and Family Change," *Journal of Marriage and the Family*, 2001, 63: 682–696. increased stress, and lower levels of parental involvement.<sup>100, 101, 102</sup> To examine the implications of first birth circumstances for later familial stability, we predict the likelihood that a woman is married at the time of the survey, as well as the likelihood that she lives in a blended or stepfamily.

The benefit to using regression models to predict these outcomes is that we can account for other factors that are also known to affect a woman's later circumstances. For example, research has shown that both economic wellbeing and family instability vary by race, ethnicity, and nativity.<sup>103</sup> Other research has shown that a woman's age at first birth also matters for later outcomes, as does her number of children ever born and the time elapsed since that first

<sup>103</sup> D. Lichter, Z. Qian, and M. Crowley, "Race and poverty: Divergent fortunes of America's children?" *Focus*, 2006, 24(3): 8–16. birth.<sup>104, 105, 106</sup> Therefore, all models take into account the mother's race, Hispanic origin, nativity, age at first birth, years since first birth, and number of children ever born, and estimate the relationship between first-birth circumstances and later outcomes while controlling for these other influences.

After taking these other factors into account, women who were unmarried at their first birth were less likely to have a high school degree at the time of the survey than were mothers who were married at the time of their first birth. and this was particularly true for women who were neither married nor cohabiting at first birth (see Figure 9).<sup>107, 108</sup> Although other data suggest that women with a nonmarital first birth are likely to have lower educational attainment to begin with, these data suggest that, even over the course of many years, women with a nonmarital first birth do not catch up to their counterparts whose first birth was in marriage.<sup>109, 110</sup> Perhaps related to their lower educational attainment, we further find that women

<sup>106</sup> Bureau of Labor Statistics, "Employment Characteristics of Families—2012," *Bureau of Labor Statistics News Release*, 2013, USDL-13-0730.

<sup>107</sup> Net of controls, women who were cohabiting at their first birth have 0.7 times the odds of having a high school degree at the time of the survey as women who were married at their first birth, and women who were neither married nor cohabiting at their first birth have 0.5 times the odds of having a high school degree at the time of the survey as women who were married at their first birth.

<sup>108</sup> Net of controls, women who were neither married nor cohabiting at their first birth have 0.8 times the odds of having a high school degree at the time of the survey as women who were cohabiting at their first birth.

<sup>109</sup> R.R. Rindfuss, S.P. Morgan, and K. Offutt, "Education and the Changing Age Pattern of American Fertility: 1969–1989," *Demography*: 1996, 33(3).

<sup>110</sup> Upchurch, Lillard, and Panis, 2002.

<sup>&</sup>lt;sup>95</sup> In this context, the formal definition of unemployment is used, meaning that women who are unemployed are those who do not have employment, but who are trying to become employed. Women who do not have jobs but are not looking to get jobs are classified as not in the labor force and are not included in the population of women who are unemployed.

<sup>&</sup>lt;sup>97</sup> C.R. Martinez and M.S. Forgatch, "Adjusting to Change: Linking Family Structure Transitions With Parenting and Boys' Adjustment," *Journal of Family Psychology*, 2002, 16: 107–117.

<sup>&</sup>lt;sup>100</sup> C. Osbourne, L.M. Berger, and K. Magnuson, "Family Structure Transitions and Changes in Maternal Resources and Wellbeing," *Demography*, 2012, 4923–47.

<sup>&</sup>lt;sup>101</sup> Cavenaugh and Huston, 2006.

<sup>&</sup>lt;sup>102</sup> Martinez and Forgatch, 2002.

<sup>&</sup>lt;sup>104</sup> Miller, 2009.

<sup>&</sup>lt;sup>105</sup> S.E. Kirmeyer and B.E. Hamilton, "Childbearing Differences Among Three Generations of U.S. Women," *NCHS Data Brief*, Number 68, National Center for Health Statistics, Hyattsville, MD, 2011.

with a nonmarital first birth were more likely to report being unemployed at the time of the survey than were women with a marital first birth.<sup>111,112</sup>

Moreover, after accounting for the demographic characteristics of the sample, women with a nonmarital first birth were significantly less likely than women who were married at the time of their first birth to be married at the time of the

<sup>112</sup> Net of controls, women who were cohabiting at their first birth have 1.6 times the odds of being unemployed at the time of the survey as women who were married at their first birth, and women who were neither married nor cohabiting at their first birth have 1.9 times the odds of being unemployed at the time of the survey as women who were married at their first birth. survey (see Figure 9).<sup>113</sup> Further, women who were neither married nor cohabiting at first birth were less likely than women who were cohabiting at first birth to be married at the time of the survey.<sup>114</sup> Other research has found nonmarital births to be associated with family instability.<sup>115, 116</sup> The CPS data suggest either that women with a nonmarital first birth were less likely to ever marry or that their marriages did not last, and

<sup>114</sup> Net of controls, women who were neither married nor cohabiting at their first birth have 0.6 times the odds of being married at the time of the survey as women who were cohabiting at their first birth.

<sup>115</sup> A. Cherlin, "Demographic Trends in the United States: A Review of Research in the 2000s," *Journal of Marriage and Family*, 2010, 72: 403–19.

<sup>116</sup> Ventura and Bachrach, 2000.

that this is particularly true for women who were neither married nor cohabiting at the time of their first birth.

We further find that among women who were living with a child,<sup>117</sup> women with a nonmarital first birth were more likely to live in a blended family (i.e., to have a stepchild in the home or to have a spouse or partner who is a stepfather to at least one of their children) than were women who were married at

<sup>117</sup> In this final model, the sample was limited to women who were identified as the mother of at least one child in the home at the time of the survey (37,689 women).



<sup>2</sup> This estimate is run using only the sample of women who are living with someone who is identified as the child of the respondent. Source: U.S. Census Bureau, Current Population Survey, June 2012.

<sup>&</sup>lt;sup>111</sup> Note that this is not restricted to women who report themselves as "in the labor market;" however, the substantive findings do not change when we exclude mothers who are not in the labor force.

<sup>&</sup>lt;sup>113</sup> Net of controls, women who were cohabiting at their first birth have 0.2 times the odds of being married at the time of the survey as women who were married at their first birth, and women who were neither married nor cohabiting at their first birth have 0.1 times the odds of being married at the time of the survey as women who were married at their first birth.

first birth (see Figure 9).<sup>118</sup> This suggests that women with nonmarital first births experience higher family turbulence than women whose first birth was in marriage. Taken together, all of these data suggest that women with nonmarital first births may face continued disadvantage over their lives compared with women with marital first births.

#### **SOURCE OF THE DATA**

Some estimates in this report come from data obtained in the June 2012 CPS and from the CPS in earlier years. The Census Bureau conducts this survey every month, although this report uses only data from the every-other-year June surveys for its estimates.

The population represented (the population universe) in the Fertility Supplement to the June 2012 CPS is the female, civilian, noninstitutionalized population, 15 to 50 years old, living in the United States. The institutionalized population, which is excluded from the population universe, is composed primarily of the population in correctional institutions and nursing homes.

This report also presents data from the 2012 ACS. The population represented (the population universe) in the ACS includes the population living in households, plus the population living in group quarters. According to the 2010 Census, 8 million people, or 2.6 percent of the total population, lived in group quarters. Of this number, roughly 4 million were institutionalized primarily in correctional institutions and nursing homes, while roughly 4 million were noninstitutionalized (such as in college dormitories or other types of group quarters).

## COMPARISON WITH OTHER DATA SOURCES

Comparative estimates on annual births are made between the ACS and data collected in the Vital Statistics Registration system and published by the National Center for Health Statistics (NCHS); see Appendix Table B for these estimates.

The ACS birth rate is slightly different from the NCHS birth rate for a calendar year because the ACS asks whether a woman had a birth in the past 12 months, extending back from the date of the interview. In this way, the 2012 ACS data captures births occurring between January of 2011 and December of 2012. In contrast, vital statistics data (as collected by NCHS) are administrative records of births that occurred during the calendar year of January to December of 2012. Additionally, NCHS birth data record the geographic location in which the birth took place, while ACS collects the area where the woman lives at the time of the survey. Moreover, birth rates by age will be slightly different from age-specific birth rates published by NCHS since the women's age in the ACS data is at the time of the survey interview date, while her age in the NCHS data is at the time she gave birth.119

Due to these differences in data collection, the ACS tends to underestimate the number of women 15 to 19 years old with a birth in the last year because about half of the 19 year olds will be 20 years old by the time of the survey. Similarly, the ACS tends to gain births from women 39 years old who turn 40 before the survey date. This produces more births to women 40 to 44 years old in the ACS than reported by Vital Statistics. For this reason, and the fact that women are having births at older ages, the ACS includes women aged 45 to 50 in the survey questionnaire.

## ACCURACY OF THE ESTIMATES

Statistics from surveys are subject to sampling and nonsampling error. All comparisons presented in this report have taken sampling error into account and are significant at the 90 percent confidence level. This means that the 90 percent confidence interval for the difference between the estimates being compared does not include zero. Nonsampling errors in surveys may be attributed to a variety of sources, such as how the survey was designed, how respondents interpret questions, how able and willing respondents are to provide correct answers, and how accurately the answers are coded and classified. The Census Bureau employs quality control procedures throughout the production process, including the overall design of surveys, the wording of questions, review of the work of interviewers and coders, and statistical review of reports to minimize these errors.

The CPS weighting procedure uses ratio estimation whereby sample estimates are adjusted to independent estimates of the national population by age, race, sex, and Hispanic origin. This weighting partially corrects for bias due to undercoverage, but biases may still be present when people who are missed by the survey differ from

<sup>&</sup>lt;sup>118</sup> Net of controls, women who were cohabiting at their first birth have 1.7 times the odds of living in a blended family at the time of the survey as women who were married at their first birth, and women who were neither married nor cohabiting at their first birth have 1.6 times the odds of living in a blended family at the time of the survey as women who were married at their first birth. However, although both categories of women with nonmarital first births are significantly different from women with marital first births, within nonmarital births, women who were cohabiting at first birth are not significantly different from women who were neither married nor cohabiting in terms of their odds of living in a blended family at interview.

<sup>&</sup>lt;sup>119</sup> For more information, see T. Johnson and J.L. Dye, "Indicators of Marriage and Fertility in the United States," from the *American Community Survey: 2000 to 2003*, U.S. Census Bureau, presentation released May 2005.

those interviewed in ways other than age, race, sex, and Hispanic origin. How this weighting procedure affects other variables in the survey is not precisely known. All of these considerations affect comparisons across different surveys or data sources.

For further information on statistical standards and the computation and use of standard errors for the CPS, go to <www.census.gov/prod /techdoc/cps/cpsjun12.pdf> or contact the Census Bureau Demographic Statistical Methods Division on the Internet at <dsmd.source .and.accuracy@census.gov>.

The final ACS population estimates are adjusted in the weighting procedure for coverage errors by controlling specific survey estimates to independent population controls by sex, age, race, and Hispanic origin. The final ACS estimates of housing units are controlled to independent estimates of total housing. This weighting partially corrects for bias due to over or undercoverage, but biases may still be present, for example, when people missed differ from those interviewed in ways other than sex, age, race, and Hispanic origin. How this weighting

procedure affects other variables in the survey is not precisely known. All of these considerations affect comparisons across different surveys or data sources.

For further information on the ACS sample, weighting procedures, sampling error, nonsampling error, and quality measures from the ACS, see <a href="http://factfinder.census">http://factfinder.census</a>.gov/home/en/datanotes/exp\_acs2012.html>.

#### **MORE INFORMATION**

Detailed tables showing the characteristics of women aged 15 to 50 by fertility indicators are available on the Internet at <www.census.gov>.

#### **CONTACTS**

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#### **USER COMMENTS**

The Census Bureau welcomes the comments and advice of users of its data and reports. If you have any suggestions or comments, please write to:

Chief, SEHSD Division U.S. Census Bureau Washington, DC 20233-8800

Or send an e-mail inquiry to: SEHSD@census.gov

#### SUGGESTED CITATION

Monte, Lindsay M., and Ellis, Renee R., Fertility of Women in the United States: June 2012, *Current Population Reports*, P20-575, U.S. Census Bureau, Washington, DC, 2014.

#### Appendix Table A. Data for Map Figures

(Data based on sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see *www.census.gov/acs/www/*)

	Figu	re 4	Figu	re 5	Figu	ire 6
			Perce	entage of women		
	Perce	entage of women	aged 15	to 50 with a birth		
Area	aged 15	to 50 with a birth	in the	e past 12 months	Percentage	of young women
	in the	e past 12 months	V	vho were living in	aged 15 to 22	2 who had a birth
	wno	o were in poverty	some	eone else's nome	In the	e past 12 months
		Margin of		Margin of		Margin of
	Estimate	error	Estimate	error	Estimate	error
United States (US)	28.1	0.4	23.5	0.4	4.2	0.1
Alabama (AL)	32.4	3.6	26.2	2.9	5.9	0.7
Alaska (AK)	23.0	5.6	22.0	5.6	4.8	1.7
Arizona (AZ)	31.3	2.8	23.2	2.1	5.0	0.7
Arkansas (AR)	30.8	3.7	21.5	3.4	5.5	0.9
Colorado (CO)	20.0	2.9	16.6	2.4	3.7	0.6
Connecticut (CT)	17.8	2.8	14.9	2.8	2.3	0.6
Delaware (DE)	19.5	6.6	22.8	6.2	3.8	1.5
District of Columbia (DC)	22.0	6.9	23.4	8.6	3.6	1.3
Florida (FL)	30.9	1.9	29.3	2.4	3.6	0.4
Georgia (GA)	30.3	2.1	25.8	1.9	4.6	0.5
Hawaii (HI).	21.8	4.5	31.3	5.6	4.8	1.4
Idaho (ID)	28.4	5.0	14.7	3.9	5.7	1.4
	24.5	1.6	22.9	1.9	3.5	0.4
	32.5	2.8	21.4	2.3	5.1	0.6
Iowa (IA) Kansas (KS)	27.5	3.2 3.4	13.5	2.5	4.0	0.6
Kentucky (KY)	32.9	3.0	23.9	2.7	5.6	0.8
Louisiana (LA)	33.2	3.4	30.8	3.3	5.4	0.9
Maine (ME)	33.2	6.1	14.4	5.0	4.1	1.3
Marvland (MD)	20.1	2.6	25.6	2.4	3.8	0.6
Massachusetts.	19.9	2.6	15.7	2.0	1.4	0.3
Michigan (MI)	32.4	2.0	22.1	1.9	3.7	0.4
Minnesota (MN)	21.0	2.3	11.6	1.5	2.7	0.4
Mississippi (MS)	42.0	5.0	35.3	4.5	6.0	0.9
Missouri (MO)	34.1	2.9	22.2	2.7	5.9	0.8
Nebraska (NF)	22.9	5.7 4 0	13.1	2.9	3.0 4.2	0.9
Nevada (NV)	32.5	4.8	24.3	4.1	4.8	1.1
New Hampshire (NH)	21.0	6.1	20.0	5.7	2.8	1.1
New Jersey (NJ)	21.6	21	20.4	23	29	0.5
New Mexico (NM)	35.9	4.8	32.7	5.0	6.0	1.3
New York (NY)	26.1	1.4	25.1	1.5	2.8	0.3
North Carolina (NC)	33.3	2.1	23.9	2.0	5.2	0.5
North Dakota (ND)	24.5	6.1	7.1	2.7	4.6	1.4
	33.6	2.2	21.0	1.8	4.9	0.4
	33.9	2.8	20.2	2.6	6.3	0.7
Pennsylvania (PA)	26.5	4.3	23.1	2.9	36	0.7
Rhode Island (RI)	22.6	7.4	15.9	5.7	2.7	1.0
South Carolina (SC)	20 7	2.2	20.1	2.0	6.1	0.0
South Dakota (SD)	30.7	3.3 5.4	29.1	3.9	6.1	0.8
Tennessee (TN).	32.6	2.8	23.1	2.8	5.0	0.6
Texas (TX)	28.7	1.5	27.6	1.4	5.9	0.3
Utah (UT)	18.0	2.7	16.9	2.6	4.1	0.8
Vermont (VT)	27.5	8.7	15.1	5.5	2.5	1.1
Virginia (VA)	22.4	2.1	19.9	2.1	4.0	0.5
West Virginia (WA).	22.7	2.4	16.9	2.1	3.7	0.6
Wisconsin (WI)	30.9 23.1	0.5 2 3	22.1	ວ.3 1 ຂ	4.5	1.3
Wyoming (WY).	23.4	6.1	21.2	7.4	4.8	1.9

<sup>1</sup> When the margin of error is added to or subtracted from the point estimate, it produces a 90 percent confidence interval. Source: U.S. Census Bureau, 2012 American Community Survey.

#### Appendix Table B. Comparison of Fertility Indicators for Women Aged 15 to 44 Years From the 2012 American Community Survey (ACS) and Birth Record Data From Vital Statistics

	2012 V	/ital Statisti	cs			ACS 201	12 <sup>1, 2</sup>		
Characteristic	Number	Percent <sup>3</sup>	Rate	Number	Margin of error <sup>4</sup>	Percent	Margin of error <sup>4</sup>	Rate	Margin of error <sup>4</sup>
Total women aged 15 to 44	62,744,930	X	X	62,787,705	25,504	X	X	Х	Х
Births last year	3,952,841	6.3	63.0	4,032,469	33,769	6.4	0.1	64.2	0.5
BIRTHS BY AGE									
15 to 19 years	305,388	7.7	29.4	224,867	7,746	5.6	0.2	21.4	0.7
20 to 24 years	916,811	23.2	83.1	867,363	17,615	21.5	0.4	79.1	1.6
25 to 29 years	1,123,900	28.4	106.5	1,083,239	17,055	26.9	0.4	103.3	1.6
30 to 34 years	1,013,416	25.6	97.3	1,073,091	18,163	26.6	0.4	103.2	1.7
35 to 39 years	472,318	11.9	48.3	584,180	12,139	14.5	0.3	59.5	1.2
40 to 44 years	109,579	2.8	10.4	199,729	7,036	5.0	0.2	18.8	0.7
BIRTHS BY RACE AND HISPANIC ORIGIN <sup>5</sup>									
White	2,999,820	75.9	63.0	2,750,047	25,561	68.2	0.4	62.6	0.6
White, non-Hispanic	2,134,044	54.0	58.6	2,155,842	22,371	53.5	0.4	59.8	0.6
Black	634,126	16.0	65.1	597,364	13,884	14.8	0.3	66.8	1.5
American Indian or Alaska Native	46,093	1.2	47.0	42,905	2,473	1.1	0.1	77.6	4.4
Asian or Pacific Islander	272,802	6.9	62.2	262,765	9,264	6.5	0.2	66.5	2.3
Hispanic (any race) <sup>6</sup>	907,677	23.0	74.4	915,549	15,252	22.7	0.3	75.0	1.2
<b>BIRTHS BY MARITAL STATUS</b>									
Married	2,343,222	59.3	86.0	2,485,071	25,137	61.6	0.4	104.5	0.9
Unmarried	1,609,619	40.7	45.3	1,547,398	21,301	38.4	0.4	39.7	0.5

X Not applicable.

<sup>1</sup> Data based on sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see <www.census.gov/acs/www/>.

<sup>2</sup> The universe for the ACS is women 15 to 50 years old when the survey was taken in each month in the calendar year 2012. To match Vital Statistics data, we used only the sample of women aged 15 to 44. The number of women who reported having had a birth in the 12 months prior (to each interview) represents the estimates of births to those women over the course of the interview year.

<sup>3</sup> Birth record percentages calculated from counts.

<sup>4</sup> When the margin of error is added to or subtracted from the point estimate, it produces a 90 percent confidence interval.

<sup>5</sup> Race of mother. ACS data refer to White alone; White, not Hispanic alone; Black alone; American Indian or Alaska Native alone; Asian alone; and Native Hawaiian and Other Pacific Islander alone. In contrast, Vital Statistics data categorize women as White, Non-Hispanic White, Black, American Indian or Alaska Native, and Asian or Pacific Islander; for details on the coding of race and ethnicity in the Vital Statistics data, see the User Guide <www.cdc.gov/nchs/data\_access /Vitalstatsonline.htm>. For comparability between estimates, the Current Population Survey data for 'Asian alone' and 'Native Hawaiian and Other Pacific Islander alone' have been combined.

6 Origin of mother.

Sources: U.S. Census Bureau, 2012 American Community Survey; J.A. Martin, B.E. Hamilton, J.K. Osterman, et al., "Births: Final Data for 2012," National Vital Statistics Reports, National Center for Health Statistics, Hyattsville, MD, 2013, Vol. 62, No. 9.