

# Wireless Substitution: Early Release of Estimates From the National Health Interview Survey, January–June 2011

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#### **Overview**

Preliminary results from the January-June 2011 National Health Interview Survey (NHIS) indicate that the number of American homes with only wireless telephones continues to grow. More than 3 of every 10 American homes (31.6%) had only wireless telephones (also known as cellular telephones, cell phones, or mobile phones) during the first half of 2011—an increase of 1.9 percentage points since the second half of 2010. In addition, nearly one of every six American homes (16.4%) received all or almost all calls on wireless telephones despite also having a landline telephone. This report presents the most up-to-date estimates available from the federal government concerning the size and characteristics of these populations.

# NHIS Early Release Program

This report is published as part of the NHIS Early Release Program. Twice each year, the Centers for Disease Control and Prevention's (CDC) National Center for Health Statistics (NCHS) releases selected estimates of telephone coverage for the civilian noninstitutionalized U.S. population based on data from NHIS, along with comparable estimates from NHIS for the previous 3 years. The estimates are based on in-person interviews that NHIS conducts continuously throughout the year to collect information on health status, health-related behaviors, and health care utilization. The survey also includes information about household telephones and whether anyone in the household has a wireless telephone.

Two additional reports are published as part of the NHIS Early

Release Program. Early Release of Selected Estimates Based on Data From the National Health Interview Survey is published quarterly and provides estimates for 15 selected measures of health. Health Insurance Coverage: Early Release of Estimates From the National Health Interview Survey is also published quarterly and provides additional estimates regarding health insurance coverage.

#### **Methods**

For many years, NHIS has asked respondents to provide residential telephone numbers, to permit recontacting of survey participants. Starting in 2003, additional questions were asked to determine whether a family had a landline telephone. NHIS families were considered to have landline telephone service if the survey respondent for each family reported that

there was "at least one phone inside your home that is currently working and is not a cell phone."

An NHIS "family" can be an individual or a group of two or more related persons living together in the same housing unit (a "household"). Thus, a family can consist of only one person, and more than one family can live in a household (including, for example, a household where there are multiple single-person families, as when unrelated roommates are living together).

The survey respondent for each family was also asked whether "anyone in your family has a working cellular telephone." Families are identified as "wireless families" if respondents reported that someone in the family had a working cell phone at the time of interview. This person (or persons) could be a civilian adult, a member of the military, or a child.

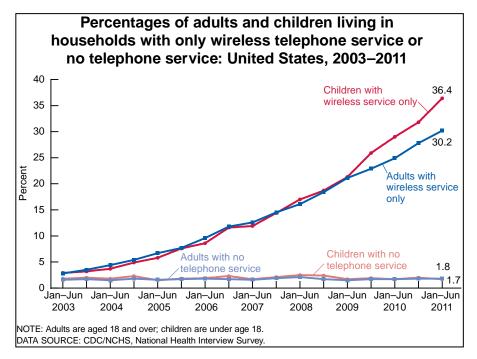


Figure 1



Households are identified as "wireless-only" if they include at least one wireless family and if there are no working landline telephones inside the household. Persons are identified as wireless-only if they live in a wirelessonly household. A similar approach is used to identify adults living in households with no telephone service (neither wireless nor landline). Household telephone status (rather than family telephone status) is used in this report because most telephone surveys do not attempt to distinguish between families when more than one family lives in the same household.

From January through June 2011, information on household telephone status was obtained for 20,133 households that included at least one civilian adult or child. These households included 38,104 civilian adults aged 18 and over and 13,753 children under age 18.

Analyses of demographic characteristics are based on data from the NHIS Person and Household files. Demographic data for all civilian adults living in interviewed households were used in these analyses. "Household income" is the sum of the family incomes in the household. Estimates stratified by household poverty status are based on reported income only because imputed income values are not available until a few months after the annual release of NHIS microdata. Household poverty status was unknown for 18.8% of adults in these analyses.

Analyses of selected health measures are based on data from the NHIS Sample Adult file. Health-related data for one civilian adult randomly selected from each family were used in these analyses. From January through June 2011, data on household telephone status and selected health measures were collected from 16,998 randomly selected adults.

Because NHIS is conducted throughout the year and the sample is designed to yield a nationally representative sample each week, data can be analyzed quarterly. Weights are created for each calendar quarter of the NHIS sample. NHIS data weighting procedures are described in more detail in a previous NCHS report (see

Botman et al., 2000). To provide access to the most recent information from NHIS, estimates using the January–June 2011 data are being released prior to final data editing and final weighting. These estimates should be considered preliminary. If estimates are produced using the final data files, the estimates may differ slightly from those presented here.

Point estimates and 95% confidence intervals were calculated using SUDAAN software to account for the complex sample design of NHIS. Differences between percentages were evaluated using two-sided significance tests at the 0.05 level. Terms such as "more likely" and "less likely" indicate a statistically significant difference. Lack of comment regarding the difference between any two estimates does not necessarily mean that the difference was tested and found to be not significant. Because of small sample sizes, estimates based on less than 1 year of data may have large variances. and caution should be used in interpreting such estimates.

#### **Telephone Status**

In the first 6 months of 2011, more than 3 of every 10 households (31.6%) did not have a landline telephone but did have at least one wireless telephone (**Table 1**). Approximately 30.2% of all adults (approximately 69 million adults) lived in households with only wireless telephones; 36.4% of all children (approximately 27 million children) lived in households with only wireless telephones.

The percentage of households that are wireless-only has been steadily increasing. The 1.9-percentage-point increase from the last 6 months of 2010 through the first 6 months of 2011 is not quite as large as the 3.1-percentage-point increase from the first 6 months of 2010 to the last 6 months of 2010. However, it is similar in size to the increases observed for the previous two 6-month periods. A 1.8-percentage-point increase was observed from the first 6 months of 2009 through the last 6 months of 2009, and a 2.1-percentage-point increase was observed from the

last 6 months of 2009 through the first 6 months of 2010.

The percentage of adults living in wireless-only households has also been increasing steadily (**Figure 1**). During the first 6 months of 2011, 3 of every 10 adults lived in wireless-only households. One year before that (i.e., during the first 6 months of 2010), one of every four adults lived in wireless-only households, and 2 years before that (i.e., during the first 6 months of 2008), only one of every six adults lived in wireless-only households.

The percentage of children living in wireless-only households is also growing. In fact, as seen in **Figure 1** and **Table 1**, the percentage of children living in wireless-only households has been increasing substantially faster since 2009 than the percentage of adults living in wireless-only households.

The percentages of adults and children living without any telephone service have remained relatively unchanged over the past 3 years. Approximately 2.0% of households had no telephone service (neither wireless nor landline). Approximately 4 million adults (1.8%) and 1.3 million children (1.7%) lived in these households.

### Demographic Differences

The percentage of U.S. civilian noninstitutionalized adults living in wireless-only households is shown by selected demographic characteristics and by survey time period in **Table 2**. For the period January–June 2011, there are three demographic groups in which the majority live in households with only wireless telephones:

Nearly 6 in 10 adults aged 25–29 (58.1%) lived in households with only wireless telephones. This rate is greater than the rates for adults aged 18–24 (46.8%) or 30–34 (46.2%). The percentage of adults living in households with only wireless telephones decreased as age increased beyond 35 years: 34.3% for adults aged 35–44; 21.6% for adults aged 45–64; and 7.9% for adults aged 65 and over.



- Nearly three in four adults living only with unrelated adult roommates (71.3%) were in households with only wireless telephones. This rate is nearly twice as high as the rate for adults living alone (38.0%) and three times as high as the rate for adults living only with spouses or other adult family members (23.2%).
- Half of all adults renting their home (52.5%) had only wireless telephones. This rate is more than twice as large as the rate for adults owning their home (20.6%).

Other demographic differences exist:

- Men (31.4%) were more likely than women (29.1%) to be living in households with only wireless telephones.
- Adults living in poverty (46.8%) and adults living near poverty (38.1%) were more likely than higher income adults (27.7%) to be living in households with only wireless telephones.
- Adults living in the Midwest (33.5%), South (33.6%), and West (30.3%) were more likely than adults living in the Northeast (18.8%) to be living in households with only wireless telephones.
- Hispanic adults (40.8%) were more likely than non-Hispanic white adults (27.6%) or non-Hispanic black adults (32.5%) to be living in households with only wireless telephones.

### **Demographic Distributions**

The demographic differences noted in the previous section are based on the distribution of household telephone status within each demographic group. When examining the population of wireless-only adults, some readers may instead wish to consider the distribution of various demographic characteristics within the wireless-only adult population. For example, although young adults aged 18–29 were more

likely than older adults to live in households with only wireless telephones, these young adults made up fewer than half (37.6%) of all wireless-only adults. Young adults were a minority among all wireless-only adults because young adults made up only 22% of the total adult population.

Table 3 gives the percent distribution of selected demographic characteristics for adults living in households with only wireless telephones, by survey time period. The estimates in this table reveal that the distributions of selected demographic characteristics changed little over the 3-year period shown. The exceptions were related to sex, age, employment status, and household structure. From 2008 to the first 6 months of 2011,

- The proportion of women among all wireless-only adults increased from 46.3% to 49.6%.
- Among all wireless-only adults, the proportion aged 35 and over has increased steadily. In the first 6 months of 2011, half of wireless-only adults (49.0%) were aged 35 and over, up from 40.3% in the first 6 months of 2008.
- The proportion of employed adults among all wireless-only adults has decreased from 75.9% to 68.5%. Over the same time period, the proportion of adults with an employment status other than working, keeping house, or going to school increased. These adults (largely unemployed or retired) made up 20.3% of wireless-only adults in the first 6 months of 2011, up from 13.7% in the first 6 months of 2008.
- Among all wireless-only adults, the proportion living with children has increased. In the first 6 months of 2011, 41.7% of wireless-only adults were living with children, up from 35.3% in the first 6 months of 2008.

### Selected Health Measures by Household Telephone Status

Many health surveys, political polls, and other research are conducted using random-digit-dial (RDD) telephone surveys. Until recently, these surveys did not include wireless telephone numbers in their samples. Now, despite operational challenges, most major survey research organizations are including wireless telephone numbers when conducting RDD surveys. If they did not, the exclusion of households with only wireless telephones (along with the small proportion of households that have no telephone service) could bias results. This bias—known as coverage bias—could exist if there are differences between persons with and without landline telephones for the substantive variables of interest.

The NHIS Early Release Program updates and releases estimates for 15 key health indicators every 3 months. **Table 4** presents estimates by household telephone status (landline, wireless-only, or phoneless) for all but two of these measures. ("Pneumococcal vaccination" and "personal care needs" were not included because these indicators are limited to older adults aged 65 and over.) For the period January–June 2011,

- The prevalence of having five or more alcoholic drinks in 1 day during the past year among wireless-only adults (31.0%) was substantially higher than the prevalence among adults living in landline households (18.2%). Wireless-only adults were also more likely to be current smokers than were adults living in landline households.
- Compared with adults living in landline households, wireless-only adults were more likely to engage in regular leisure-time physical activity and less likely to have ever been diagnosed with diabetes.
- The percentage without health insurance coverage at the time of interview among wireless-only



- adults under age 65 (27.5%) was greater than the percentage among adults in that age group living in landline households (16.8%).
- Compared with adults living in landline households, wireless-only adults were more likely to have experienced financial barriers to obtaining needed health care, and they were less likely to have a usual place to go for medical care. Wireless-only adults were also less likely to have received an influenza vaccination during the previous year.
- Wireless-only adults (44.9%) were more likely than adults living in landline households (31.4%) to have ever been tested for human immunodeficiency virus (HIV), the virus that causes AIDS.

The potential for bias due to undercoverage remains a real and growing threat to surveys conducted only on landline telephones. Telephone surveys limited to landline households may still be viable for health surveys of all adults and for surveys of most subpopulations regarding their health status (see Blumberg and Luke, 2009). However, for health-related behaviors, health care service use indicators, and health care access measures (such as those in Table 4), caution is warranted when using landline surveys to draw inferences about subpopulations more likely to be wireless-only (e.g., young or low-income adults).

### Wireless-mostly Households

The potential for bias due to undercoverage is not the only threat to surveys conducted on landline telephones. Researchers are also concerned that some people living in households with landlines cannot be reached on those landlines because they rely on wireless telephones for all or almost all of their calls.

In 2007, a new question was added to NHIS for persons living in families with both landline and cellular telephones. The respondent for the family was asked to consider all of the

telephone calls his or her family receives and to report whether "all or almost all calls are received on cell phones, some are received on cell phones and some on regular phones, or very few or none are received on cell phones." This new question permits the identification of persons living in "wireless-mostly" households—defined as households with both landline and cellular telephones in which all families receive all or almost all calls on cell phones.

Among households with both landline and wireless telephones, 29.8% received all or almost all calls on the wireless telephones, based on data for the period January–June 2011. These wireless-mostly households make up 16.4% of all households.

During the first 6 months of 2011, approximately 42 million adults (18.2%) lived in wireless-mostly households. This prevalence estimate was greater than the estimate for the first 6 months of 2009 (16.3%).

**Table 5** gives the percentage of adults living in wireless-mostly households, by selected demographic characteristics and by survey time period. For the period January–June 2011,

- Adults working at a job or business (21.6%) and adults going to school (23.5%) were more likely to be living in wireless-mostly households than were adults keeping house (14.9%) or with another employment status such as retired or unemployed (11.3%).
- Adults with college degrees (21.1%) were more likely to be living in wireless-mostly households than were high school graduates (16.6%) or adults with less education (12.9%).
- Adults living with children (22.8%) were more likely than adults living alone (10.2%) or with only adult relatives (17.2%) to be living in wireless-mostly households.
- Adults living in poverty (10.5%) and adults living near poverty (13.3%) were less likely than higher income adults (21.6%) to be

- living in wireless-mostly households.
- Adults renting their home (13.9%) were less likely to be living in wireless-mostly households than were adults owning their home (20.0%).

Research by **Boyle**, **Lewis**, and **Tefft** (2009) suggests that the majority of adults living in wireless-mostly households are reachable using their landline telephone number. NHIS data cannot be used to estimate the proportion of wireless-only adults who are unreachable or to estimate the potential for bias due to their exclusion from landline surveys.

## References and Other Sources of Information

For more information about the potential implications for health surveys that are based on landline telephone interviews, see

- Blumberg SJ, Luke JV.
  Reevaluating the need for concern regarding noncoverage bias in landline surveys. Am J Public Health 99:1806–10. 2009.
  Available from:
  <a href="http://ajph.aphapublications.org/cgi/content/abstract/99/10/1806">http://ajph.aphapublications.org/cgi/content/abstract/99/10/1806</a>.
- Blumberg SJ, Luke JV, Cynamon ML, Frankel MR. Recent trends in household telephone coverage in the United States. In: Lepkowski JM et al., eds. Advances in telephone survey methodology. New York: John Wiley and Sons, 56–86. 2008.
- Boyle JM, Lewis F, Tefft B. Cell phone mainly households: Coverage and reach for telephone surveys using RDD landline samples. Survey Practice. 2009. Available from: http://surveypractice.org/2009/12/09/cell-phone-and-landlines/.

When including wireless telephone numbers in RDD surveys, researchers have many methodological, statistical, operational, legal, and ethical issues to consider. These issues have recently



been described in a report from a task force of the American Association for Public Opinion Research (AAPOR). That task force included staff from CDC, and its report is available online:

■ AAPOR Cell Phone Task Force.

New considerations for survey researchers when planning and conducting RDD telephone surveys in the U.S. with respondents reached via cell phone numbers.

Deerfield, IL: American Association for Public Opinion Research (AAPOR). 2010.

Available from:

<a href="http://aapor.org/cell\_phone\_task\_force.htm">http://aapor.org/cell\_phone\_task\_force.htm</a>.

The potential for bias may differ from one state to another because the prevalence of wireless-only households varies substantially across states. For more information about prevalence estimates at the state and local level, see

Blumberg SJ, Luke JV, Ganesh N, et al. Wireless substitution: State-level estimates from the National Health Interview Survey, January 2007–June 2010. National health statistics reports; no 39. Hyattsville, MD: National Center for Health Statistics. 2011. Available from: http://www.cdc.gov/nchs/data/nhsr/nhsr039.pdf.

For more information about NHIS and the NHIS Early Release Program, or to find other Early Release reports, please see the following:

- NHIS home page at http://www.cdc.gov/nchs/nhis.htm.
- Early Releases home page at http://www.cdc.gov/nchs/nhis/ releases.htm.
- Botman SL, Moore TF, Moriarity CL, Parsons VL. Design and estimation for the National Health Interview Survey, 1995–2004. National Center for Health Statistics. Vital Health Stat 2(130). 2000. Available from: http://www.cdc.gov/nchs/data/serie s/sr 02/sr02 130.pdf.

### **Suggested Citation**

Blumberg SJ, Luke JV. Wireless substitution: Early release of estimates from the National Health Interview Survey, January–June 2011. National Center for Health Statistics. December 2011. Available from: http://www.cdc.gov/nchs/nhis.htm.



Table 1. Percent distribution of household telephone status for households, adults, and children, by date of interview: United States, January 2008–June 2011

		Household telephone status										
Date of interview		Landline with wireless	Landline without wireless	Landline with unknown wireless	Nonlandline with unknown wireless	Wireless-only	Phoneless	Total				
	Number of households (unweighted)			1	Percent of households							
	-											
Jan-Jun 2008	16,070	58.5	20.6	0.9	0.0	17.5	2.5	100.0				
ul-Dec 2008	12,597	59.6	17.4	0.9	0.0	20.2	1.9	100.0				
an-Jun 2009	12,447	59.4	15.5	0.4	0.0	22.7	1.9	100.0				
ul-Dec 2009	21,375	58.2	14.9	0.4	0.0	24.5	2.0	100.0				
an–Jun 2010	17,619	58.1	12.9	0.3	0.0	26.6	2.0	100.0				
ul-Dec 2010	16,676	55.0	12.9	0.3	0.1	29.7	2.0	100.0				
an-Jun 2011	20,133	55.0	11.2	0.2	0.1	31.6	2.0	100.0				
25% confidence interval <sup>1</sup>		53.73-56.17	10.53-11.90	0.13-0.27	0.03-0.11	30.49–32.67	1.83-2.28					
	Number of adults											
	(unweighted)				Percent of adults							
an–Jun 2008	30,150	63.0	17.9	0.8	0.0	16.1	2.1	100.0				
ul–Dec 2008	23,726	63.7	15.1	1.0	0.0	18.4	1.7	100.0				
an–Jun 2009	23,632	63.5	13.4	0.4	0.0	21.1	1.5	100.0				
ul-Dec 2009	40,619	62.5	12.6	0.3	0.0	22.9	1.7	100.0				
an-Jun 2010	33,780	62.2	10.9	0.3	0.0	24.9	1.7	100.0				
ul-Dec 2010	31,791	59.4	10.7	0.3	0.1	27.8	1.8	100.0				
an–Jun 2011	38,104	58.8	9.0	0.2	0.0	30.2	1.8	100.0				
5% confidence	interval <sup>1</sup>	57.53–59.99	8.42-9.62	0.15-0.30	0.02-0.09	29.11–31.32	1.58–1.99					



Table 1. Percent distribution of household telephone status for households, adults, and children, by date of interview: United States, January 2008-June 2011—Con.

	_	Household telephone status										
Date of interview		Landline with wireless		Landline with unknown wireless	Nonlandline with unknown wireless	Wireless-only	Phoneless	Total				
	Number of children (unweighted)	Percent of children										
Jan–Jun 2008	11,238	67.3	12.6	0.6	0.0	17.0	2.5	100.0				
Jul-Dec 2008	8,635	67.1	11.1	0.7	0.0	18.7	2.4	100.0				
Jan–Jun 2009	8,818	67.6	9.1	0.3	0.0	21.3	1.7	100.0				
Jul-Dec 2009	14,984	63.4	8.5	0.2	0.0	25.9	1.9	100.0				
Jan–Jun 2010	12,234	62.8	6.4	0.1	_	29.0	1.7	100.0				
Jul-Dec 2010	11,815	59.8	6.2	0.1	0.1	31.8	2.0	100.0				
Jan–Jun 2011	13,753	56.7	5.1	0.1	0.0	36.4	1.7	100.0				
95% confidence	interval <sup>1</sup>	54.90-58.48	4.44-5.81	0.05-0.29	0.02-0.15	34.81–37.96	1.39-2.03					

<sup>0.0</sup> Quantity more than zero but less than 0.05.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

<sup>...</sup> Category not applicable.

<sup>-</sup> Quantity zero.

<sup>&</sup>lt;sup>1</sup> Refers to the time period January through June 2011.



Table 2. Percentage of adults living in wireless-only households, by selected demographic characteristics and calendar half-years: United States, January 2008–June 2011

			Ca	alendar half-ye	ear			95% confidence
Demographic characteristic	Jan–Jun 2008	Jul–Dec 2008	Jan–Jun 2009	Jul-Dec 2009	Jan–Jun 2010	Jul-Dec 2010	Jan–Jun 2011	
				Percent				
Race/ethnicity								
Hispanic or Latino, any race(s)	21.6	25.0	28.2	30.4	34.7	38.4	40.8	38.73 - 42.93
Non-Hispanic white, single race	14.6	16.6	19.7	21.0	22.7	25.0	27.6	26.30 - 28.86
Non-Hispanic black, single race	18.5	21.4	21.3	25.0	28.5	31.1	32.5	30.26 - 34.82
Ion-Hispanic Asian, single race	16.5	17.8	18.0	20.6	18.8	27.0	27.7	24.79 - 30.88
Ion-Hispanic other, single race	12.8	17.3	20.6	26.5	*16.1	31.9	33.8	27.12 - 41.16
Non-Hispanic multiple race	22.3	22.5	28.7	26.9	36.0	36.1	39.3	33.99 - 44.79
Age								
8–24 years	31.4	33.1	37.6	37.8	39.9	45.5	46.8	43.98 - 49.59
5–29 years	35.7	41.5	45.8	48.6	51.3	53.5	58.1	56.09 - 60.17
0–34 years	27.0	30.4	33.5	37.2	40.4	43.8	46.2	44.02 - 48.45
5–44 years	15.5	17.5	21.5	23.9	27.0	30.9	34.3	32.50 - 36.14
5–64 years	9.2	11.6	12.8	14.9	16.9	18.8	21.6	20.45-22.85
5 years and over	2.8	3.3	5.4	5.2	5.4	7.7	7.9	7.19 - 8.77
Sex								
Male	18.0	20.0	22.5	24.5	26.2	29.0	31.4	30.22 - 32.65
emale	14.4	17.0	19.8	21.3	23.7	26.8	29.1	27.94 - 30.19
Education								
ome high school or less	16.1	18.8	22.2	24.7	28.6	29.2	32.1	30.15 - 34.09
ligh school graduate or GED <sup>2</sup>	15.2	17.8	20.8	22.9	23.6	27.6	30.8	29.22 - 32.51
ome post-high school, no degree	19.0	20.1	23.6	25.0	26.5	30.9	31.8	30.32 - 33.39
-year college degree or higher	14.3	17.7	18.2	19.5	22.7	24.3	26.9	25.41 - 28.38
Employment status last week								
Vorking at a job or business	19.0	21.5	24.3	26.0	28.5	31.5	34.2	32.91 - 35.54
Leeping house	12.6	16.0	16.6	20.5	22.7	25.8	31.2	29.05 - 33.37
oing to school	21.5	23.5	29.7	29.2	33.2	38.6	35.3	30.71 - 40.09
Something else (incl. unemployed)	8.9	11.0	14.0	15.9	16.8	19.2	21.0	19.86 - 22.08



Table 2. Percentage of adults living in wireless-only households, by selected demographic characteristics and calendar half-years: United States, January 2008–June 2011—Con.

	Calendar half-year								
Demographic characteristic	Jan–Jun 2008	Jul–Dec 2008	Jan–Jun 2009	Jul–Dec 2009	Jan–Jun 2010	Jul–Dec 2010	Jan–Jun 2011	95% confidence interval <sup>1</sup>	
				Percent					
Household structure									
Adult living alone	24.6	28.1	30.8	32.9	33.5	36.8	38.0	36.16 - 39.92	
Unrelated adults, no children	63.1	60.6	68.5	62.9	69.4	69.7	71.3	60.13 - 80.41	
Related adults, no children	12.5	14.7	16.8	17.1	19.1	22.1	23.2	22.00 - 24.52	
Adult(s) with children	15.1	17.2	20.4	24.1	26.9	29.4	33.6	32.11 - 35.22	
Household poverty status <sup>3</sup>									
Poor	26.0	30.9	33.0	36.3	39.3	42.8	46.8	44.12 - 49.46	
Near poor	22.6	23.8	26.5	29.0	32.9	35.2	38.1	35.73 - 40.61	
Not poor	14.2	16.0	18.9	19.6	21.7	24.1	27.7	26.46 - 28.88	
Geographic region <sup>4</sup>									
Northeast	9.8	11.4	14.6	15.1	15.8	17.2	18.8	16.71 - 21.17	
Midwest	17.8	20.8	21.9	25.6	26.6	30.0	33.5	31.19 - 35.95	
South	19.6	21.3	25.0	25.4	29.3	31.1	33.6	31.78 - 35.53	
West	13.7	17.2	19.0	22.2	23.5	28.7	30.3	28.21 - 32.55	
Metropolitan statistical area status									
Metropolitan	17.5	19.7	22.4	24.2	26.5	29.1	31.4	30.20 - 32.59	
Not metropolitan	10.9	13.5	16.5	17.9	19.3	22.9	25.6	23.28 - 28.01	
Home ownership status <sup>5</sup>									
Owned or being bought	9.0	9.9	12.8	14.0	15.5	17.7	20.6	19.56 - 21.71	
Renting	33.6	39.2	40.9	43.1	47.1	50.3	52.5	50.85 - 54.17	
Other arrangement	23.4	17.7	33.6	33.8	34.9	35.1	38.4	31.96 - 45.32	
Number of wireless-only adults in survey sample (unweighted)	4,939	4,426	5,078	9,401	8,659	9,228	11,872		

<sup>\*</sup> Estimate has a relative standard error greater than 30% and does not meet National Center for Health Statistics (NCHS) standards for reliability.



... Category not applicable.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

<sup>&</sup>lt;sup>1</sup> Refers to the time period January through June 2011.

<sup>&</sup>lt;sup>2</sup> GED is General Educational Development high school equivalency diploma.

<sup>&</sup>lt;sup>3</sup> Based on household income and household size using the U.S. Census Bureau's poverty thresholds. "Poor" persons are defined as those below the poverty threshold. "Near poor" persons have incomes of 100% to less than 200% of the poverty threshold. "Not poor" persons have incomes of 200% of the poverty threshold or greater. Early Release estimates stratified by poverty status are based on reported income only and may differ from similar estimates produced later that are based on both reported and imputed income. NCHS imputes income when income is unknown, but the imputed income file is not available until a few months after the annual release of National Health Interview Survey microdata. For households with multiple families, household income and household size were calculated as the sum of the multiple measures of family income and family size.

<sup>&</sup>lt;sup>4</sup> In the geographic classification of the U.S. population, states are grouped into the following four regions used by the U.S. Census Bureau. *Northeast* includes Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania. *Midwest* includes Ohio, Illinois, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Kansas, and Nebraska. *South* includes Delaware, Maryland, District of Columbia, West Virginia, Virginia, Kentucky, Tennessee, North Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Oklahoma, Arkansas, and Texas. *West* includes Washington, Oregon, California, Nevada, New Mexico, Arizona, Idaho, Utah, Colorado, Montana, Wyoming, Alaska, and Hawaii.

<sup>&</sup>lt;sup>5</sup> For households with multiple families, home ownership status was determined by considering the reported home ownership status for each family. If any family reported owning the home, then the household-level variable was classified as "Owned or being bought" for all persons living in the household. If one family reported renting the home and another family reported "other arrangement," then the household-level variable was classified as "Other arrangement" for all persons living in the household.



Table 3. Percent distribution of selected demographic characteristics for adults living in wireless-only households, by date of interview: United States, January 2008–June 2011

			Ca	alendar half-ye	ear			95% confidence interval <sup>1</sup>
Demographic characteristic	Jan–Jun 2008	Jul–Dec 2008	Jan–Jun 2009	Jul–Dec 2009	Jan–Jun 2010	Jul–Dec 2010	Jan–Jun 2011	
			Pe	rcent distribut	ion			
Race/ethnicity								
Hispanic or Latino, any race(s)	18.1	18.5	18.4	18.5	19.4	19.5	19.0	17.22 - 20.98
Non-Hispanic white, single race	62.2	61.9	63.8	62.5	61.6	61.0	61.8	59.77 - 63.72
Non-Hispanic black, single race	13.2	13.3	11.7	12.7	13.3	13.0	12.5	11.20 - 13.83
Non-Hispanic Asian, single race	4.6	4.4	3.9	4.1	3.5	4.5	4.3	3.78 - 4.89
Non-Hispanic other, single race	0.6	0.6	0.7	1.0	0.6	0.7	0.8	0.59 - 1.11
Non-Hispanic multiple race	1.3	1.2	1.5	1.3	1.6	1.3	1.6	1.37 - 1.97
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	•••
Age								
18–24 years	24.9	23.1	22.9	21.2	20.7	21.1	20.0	18.80 - 21.35
25–29 years	20.5	21.0	19.9	19.6	19.1	17.7	17.6	16.83 - 18.47
30–34 years	14.3	14.0	13.6	14.0	13.9	13.7	13.3	12.58 - 14.09
35–44 years	17.8	17.4	18.4	18.6	18.9	19.3	19.5	18.54 - 20.46
45–64 years	19.6	21.6	21.0	22.8	23.7	23.6	25.0	23.90 - 26.18
65 years and over	2.9	2.9	4.3	3.8	3.7	4.7	4.5	4.03 - 5.01
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Sex								
Male	53.7	52.4	51.4	51.8	50.9	50.3	50.4	49.63 - 51.14
Female	46.3	47.6	48.6	48.2	49.1	49.7	49.6	48.86 - 50.37
Гotal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	•••
Education								
Some high school or less	15.5	15.8	15.5	16.0	16.6	15.4	15.6	14.46 - 16.87
High school graduate or GED <sup>2</sup>	27.8	27.2	27.7	28.9	26.7	28.1	27.8	26.54 – 29.15
Some post-high school, no degree	33.9	31.7	33.3	32.9	32.0	32.7	32.2	30.95 - 33.48
4-year college degree or higher	22.8	25.3	23.5	22.3	24.7	23.9	24.3	23.01 - 25.74
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	



Table 3. Percent distribution of selected demographic characteristics for adults living in wireless-only households, by date of interview: United States, January 2008–June 2011—Con.

			Ca	alendar half-ye	ear			95% confidence interval <sup>1</sup>
Demographic characteristic	Jan–Jun 2008	Jul–Dec 2008	Jan–Jun 2009	Jul–Dec 2009	Jan–Jun 2010	Jul–Dec 2010	Jan–Jun 2011	
			Pe	rcent distribut	ion			
Employment status last week								
Working at a job or business	75.9	74.5	71.1	69.1	69.7	68.8	68.5	67.39 – 69.67
Keeping house	5.0	5.3	4.5	5.3	5.3	5.5	5.9	5.47 - 6.36
Going to school	4.1	3.7	4.6	4.4	4.3	4.7	4.2	3.60 - 4.91
Something else (incl. unemployed)	13.7	15.4	18.7	20.2	19.5	20.0	20.3	19.37 - 21.34
Unknown, not reported	1.4	*1.1	1.1	1.1	1.3	1.1	1.0	0.71 - 1.45
Гotal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	•••
Household structure								
Adult living alone	23.2	23.6	22.1	21.9	19.9	20.0	18.7	17.60 - 19.85
Unrelated adults, no children	6.4	5.2	5.4	4.1	4.1	4.0	4.3	3.45 - 5.26
Related adults, no children	35.1	36.9	36.0	34.0	35.1	36.0	35.3	33.89 - 36.80
Adult(s) with children	35.3	34.3	36.4	40.0	40.9	40.0	41.7	40.09 - 43.33
Гotal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Household poverty status <sup>3</sup>								
Poor	14.1	15.5	15.5	16.4	16.5	17.4	15.6	14.53 - 16.84
Near poor	18.1	16.8	17.9	18.5	19.8	18.6	17.7	16.45 - 19.01
Not poor	53.4	53.3	56.7	53.0	53.2	52.3	47.8	46.03 - 49.61
Unknown, not reported	14.4	14.4	10.0	12.2	10.6	11.7	18.8	17.63 - 20.13
Гotal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	•••
Geographic region <sup>4</sup>								
Northeast	10.7	11.3	12.2	12.1	11.4	11.0	11.1	9.88 - 12.46
Midwest	25.0	26.0	23.9	26.0	24.0	24.7	24.9	22.91 - 27.09
South	45.2	41.1	43.8	39.5	42.3	40.2	40.5	38.10 - 42.85
West	19.1	21.6	20.1	22.4	22.3	24.1	23.5	21.47 - 25.66
Гotal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	



Table 3. Percent distribution of selected demographic characteristics for adults living in wireless-only households, by date of interview: United States, January 2008–June 2011—Con.

			<u></u>					
Demographic characteristic	Jan–Jun 2008	Jul-Dec 2008	Jan–Jun 2009	Jul–Dec 2009	Jan–Jun 2010	Jul–Dec 2010	Jan–Jun 2011	95% confidence interval <sup>1</sup>
			Pe	rcent distribut	ion			
Metropolitan statistical area status								
Metropolitan	85.9	85.1	83.3	83.7	83.2	82.7	82.8	80.31 - 84.97
Not metropolitan	14.1	14.9	16.7	16.3	16.8	17.3	17.2	15.03 - 19.69
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	•••
Home ownership status <sup>5</sup>								
Owned or being bought	39.2	37.1	42.1	42.3	43.7	43.3	47.0	45.14 - 48.92
Renting	58.1	61.1	55.0	54.3	53.5	54.2	49.9	48.05 - 51.84
Other arrangement	2.7	1.8	2.9	3.3	2.8	2.5	3.0	2.55 - 3.59
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Number of wireless-only adults in survey sample (unweighted)	4,939	4,426	5,078	9,401	8,659	9,228	11,872	

<sup>\*</sup>Estimate has a relative standard error greater than 30% and does not meet National Center for Health Statistics (NCHS) standards for reliability.

<sup>...</sup> Category not applicable.

<sup>&</sup>lt;sup>1</sup> Refers to the time period January through June 2011.

<sup>&</sup>lt;sup>2</sup> GED is General Educational Development high school equivalency diploma.

<sup>&</sup>lt;sup>3</sup> Based on household income and household size using the U.S. Census Bureau's poverty thresholds. "Poor" persons are defined as those below the poverty threshold. "Near poor" persons have incomes of 100% to less than 200% of the poverty threshold. "Not poor" persons have incomes of 200% of the poverty threshold or greater. Early Release estimates stratified by poverty status are based on reported income only and may differ from similar estimates produced later that are based on both reported and imputed income. NCHS imputes income when income is unknown, but the imputed income file is not available until a few months after the annual release of National Health Interview Survey microdata. For households with multiple families, household income and household size were calculated as the sum of the multiple measures of family income and family size.

<sup>&</sup>lt;sup>4</sup> In the geographic classification of the U.S. population, states are grouped into the following four regions used by the U.S. Census Bureau. *Northeast* includes Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania. *Midwest* includes Ohio, Illinois, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Kansas, and Nebraska. *South* includes Delaware, Maryland, District of Columbia, West Virginia, Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Oklahoma, Arkansas, and Texas. *West* includes Washington, Oregon, California, Nevada, New Mexico, Arizona, Idaho, Utah, Colorado, Montana, Wyoming, Alaska, and Hawaii.



<sup>5</sup> For households with multiple families, home ownership status was determined by considering the reported home ownership status for each family. If any family reported owning the home, then the household-level variable was classified as "Owned or being bought" for all persons living in the household. If one family reported renting the home and another family reported "other arrangement," then the household-level variable was classified as "Other arrangement" for all persons living in the household.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.



Table 4. Prevalence rates (and 95% confidence intervals) for selected measures of health-related behaviors, health status, health care service use, and health care access for adults aged 18 and over, by household telephone status: United States, January—June 2011

		Household telephone status							
Measure	Landline <sup>1</sup>	Wireless-only	Phoneless						
	Percent (95% confidence interval)								
Health-related behaviors									
Five or more alcoholic drinks in 1 day at least once in past year <sup>2</sup>	18.2 (17.20 – 19.33	31.0 (29.16 – 32.90)	20.3 (15.76 – 25.84)						
Current smoker <sup>3</sup>	16.5 (15.46 – 17.70	25.2 (23.74 – 26.62)	26.6 (21.40 – 32.43)						
Engaged in regular leisure-time physical activity <sup>4</sup>	34.7 (33.37 – 35.95	39.3 (37.74 – 40.92)	33.0 (27.07 – 39.44)						
Health status									
Health status described as excellent or very good <sup>5</sup>	58.8 (57.39 – 60.15	61.7 (59.86 – 63.42)	50.6 (44.26 – 56.86)						
Experienced serious psychological distress in past 30 days <sup>6</sup>	3.2 (2.77 – 3.72)	4.1 (3.57 – 4.70)	6.1 (3.90 – 9.32)						
Obese (adults aged 20 and over) <sup>7</sup>	29.5 (28.43 – 30.53		30.2 (24.61 – 36.48)						
Asthma episode in past year <sup>8</sup>	3.7  (3.27 - 4.14)	4.2  (3.65 - 4.90)	5.7  (3.23 - 9.83)						
Ever diagnosed with diabetes <sup>9</sup>	10.2  (9.54 - 10.85)	6.0  (5.28 - 6.82)	7.3  (4.62 - 11.28)						
Health care service use									
Received influenza vaccine during past year <sup>10</sup>	42.8 (41.46 – 44.12	28.0 (26.54 – 29.41)	26.4 (21.20 – 32.42)						
Ever been tested for HIV <sup>11</sup>	31.4 (30.20 – 32.65	44.9 (43.28 – 46.62)	49.2 (42.22 – 56.30)						
Health care access									
Has a usual place to go for medical care <sup>12</sup>	89.0 (88.16 – 89.78	74.5 (72.98 – 76.05)	74.2 (68.59 – 79.15)						
Failed to obtain needed medical care in past year due to financial barriers <sup>13</sup>	6.8 (6.29 – 7.42)	13.4 (12.35 – 14.50)	12.7 (9.19 – 17.30)						
Currently uninsured (adults aged 18–64) <sup>14</sup>	16.8 (15.81 – 17.87	27.5 (25.86 – 29.28)	32.5 (26.60 – 38.93)						
Number of adults in survey sample (unweighted)	10,726	5,912	360						

<sup>&</sup>lt;sup>1</sup> Includes households that also have wireless telephone service.

<sup>&</sup>lt;sup>2</sup> A year is defined as the 12 months prior to interview. The analyses excluded adults with unknown alcohol consumption (about 2% of respondents each year).

<sup>&</sup>lt;sup>3</sup> Defined as a person who had smoked more than 100 cigarettes in his or her lifetime and now smokes every day or some days. The analyses excluded persons with unknown smoking status (about 1% of respondents each year).

<sup>&</sup>lt;sup>4</sup> Regular leisure-time physical activity is defined as engaging in light-moderate leisure-time physical activity for greater than or equal to 30 minutes at a frequency greater than or equal to five times per week or engaging in vigorous leisure-time physical activity for greater than or equal to 20 minutes at a frequency greater than or equal to three times per week. Persons who were known to have not met the frequency recommendations are classified as "not regular," regardless of duration. The analyses excluded persons with unknown physical activity participation (about 3% of respondents each year).

<sup>&</sup>lt;sup>5</sup> Health status data were obtained by asking respondents to assess their own health and that of family members living in the same household as excellent, very good, good, fair, or poor. The analyses excluded persons with unknown health status (about 0.5% of respondents each year).

<sup>&</sup>lt;sup>6</sup> Six psychological distress questions are included in the National Health Interview Survey. These questions ask how often during the past 30 days a respondent experienced certain symptoms of psychological distress (feeling so sad that nothing could cheer you up, nervous, restless or fidgety, hopeless, worthless, that everything was an effort). The response codes (0–4) of the six items for each person were equally weighted and summed. A value of 13 or more for this scale indicates that at least one symptom was experienced "most of the time" or "all of the time" and is used here to define serious psychological distress.

<sup>&</sup>lt;sup>7</sup> Obesity is defined as a body mass index (BMI) of 30 kg/m<sup>2</sup> or more. The measure is based on self-reported height and weight. The analyses excluded people with unknown height or weight (about 4% of respondents each year). Estimates of obesity are



presented for adults aged 20 and over because the Healthy People 2020 objectives (http://www.healthypeople.gov) for healthy weight among adults define adults as persons aged 20 and over.

- <sup>8</sup> Information on an episode of asthma or an asthma attack during the past year is self-reported by adults aged 18 and over. A year is defined as the 12 months prior to interview. The analyses excluded people with unknown asthma episode status (about 0.3% of respondents each year).
- <sup>9</sup> Prevalence of diagnosed diabetes is based on self-report of ever having been diagnosed with diabetes by a doctor or other health professional. Persons reporting "borderline" diabetes status and women reporting diabetes only during pregnancy were not coded as having diabetes in the analyses. The analyses excluded persons with unknown diabetes status (about 0.1% of respondents each year).
- <sup>10</sup>Receipt of flu shots and receipt of nasal spray flu vaccinations were included in the calculation of flu vaccination estimates. Responses to these two flu vaccination questions do not indicate when the subject received the flu vaccination during the 12 months preceding the interview. In addition, estimates are subject to recall error, which will vary depending on when the question is asked because the receipt of a flu vaccination is seasonal. The analyses excluded those with unknown flu vaccination status (about 1% of respondents each year).
- <sup>11</sup> Individuals who received human immunodeficiency virus (HIV) testing solely as a result of blood donation were considered not to have been tested for HIV. The analyses excluded those with unknown HIV test status (about 4% of respondents each year).
- <sup>12</sup> Does not include a hospital emergency room. The analyses excluded persons with an unknown usual place to go for medical care (about 0.6% of respondents each year).
- <sup>13</sup> A year is defined as the 12 months prior to interview. The analyses excluded persons with unknown responses to the question on failure to obtain needed medical care due to cost (about 0.5% of respondents each year).
- <sup>14</sup> A person was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children's Health Insurance Program (CHIP), state-sponsored or other government-sponsored health plan, or military plan at the time of the interview. A person was also defined as uninsured if he or she had only Indian Health Service coverage or had only a private plan that paid for one type of service, such as accidents or dental care. The data on health insurance status were edited using an automated system based on logic checks and keyword searches. The analyses excluded persons with unknown health insurance status (about 1% of respondents each year).

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.



Table 5. Percentage of adults living in wireless-mostly households, by selected demographic characteristics and calendar half-years: United States, January 2008–June 2011

			Ca	alendar half-ye	ear			95% confidence interval <sup>1</sup>
Demographic characteristic	Jan–Jun 2008	Jul–Dec 2008	Jan–Jun 2009	Jul–Dec 2009	Jan–Jun 2010	Jul–Dec 2010	Jan–Jun 2011	
				Percent				
Total	14.4	15.4	16.2	16.3	17.7	17.4	18.2	17.43 - 19.01
Race/ethnicity								
Hispanic or Latino, any race(s)	16.0	15.9	18.0	16.9	19.7	17.2	16.3	14.92 - 17.73
Non-Hispanic white, single race	14.2	14.9	15.6	16.1	17.2	17.2	18.4	17.43 - 19.46
Non-Hispanic black, single race	13.3	14.7	15.0	16.2	17.5	16.2	18.4	16.80 - 20.13
Non-Hispanic Asian, single race	16.4	20.3	19.6	18.5	20.8	22.5	21.0	18.72 - 23.58
Non-Hispanic other, single race	*10.1	15.5	22.9	*16.1	*12.3	23.8	17.6	11.73 - 25.67
Non-Hispanic multiple race	17.7	24.2	22.5	18.2	21.0	20.7	16.1	12.66 - 20.28
Age								
18–24 years	19.2	18.8	20.0	19.9	21.4	18.7	20.1	17.93 - 22.52
25–29 years	17.3	18.3	17.7	16.4	17.4	16.8	16.3	14.58 - 18.24
30–44 years	18.2	19.0	20.3	19.5	21.2	21.6	21.9	20.65 - 23.14
45–64 years	13.8	15.4	16.5	17.5	19.0	18.9	19.8	18.75 - 20.92
65 years and over	4.4	4.9	5.3	6.3	7.0	7.1	8.9	8.06 - 9.93
Sex								
Male	14.9	15.4	16.2	16.5	18.1	17.8	18.5	17.60 - 19.44
Female	14.0	15.2	16.1	16.2	17.4	17.1	17.9	17.15 - 18.72
Education								
Some high school or less	10.0	9.8	12.1	11.5	12.0	12.1	12.9	11.76 - 14.05
High school graduate or GED <sup>2</sup>	12.5	13.2	13.7	14.2	16.0	15.3	16.6	15.49 - 17.73
Some post-high school, no degree	17.0	18.6	17.7	18.1	20.1	18.9	20.0	18.74 - 21.43
4-year college degree or higher	17.1	18.0	19.7	19.7	20.3	21.3	21.1	19.78 - 22.42
Employment status last week								
Working at a job or business	17.3	18.4	19.5	19.7	20.8	20.5	21.6	20.59 - 22.57
Keeping house	11.9	11.9	12.7	15.1	14.5	16.7	14.9	13.19 - 16.75
Going to school	25.2	21.5	21.1	21.7	23.5	24.4	23.5	17.62 - 30.56
Something else (incl. unemployed)	6.6	7.8	9.0	9.0	11.5	10.2	11.3	10.61 - 12.06



Table 5. Percentage of adults living in wireless-mostly households, by selected demographic characteristics and calendar half-years: United States, January 2008–June 2011—Con.

			_					
Demographic characteristic	Jan–Jun 2008	Jul–Dec 2008	Jan–Jun 2009	Jul–Dec 2009	Jan–Jun 2010	Jul–Dec 2010	Jan–Jun 2011	95% confidence interval <sup>1</sup>
				Percent				
Household structure								
Adult living alone	10.1	12.2	10.0	10.6	10.1	9.5	10.2	9.27 - 11.24
Unrelated adults, no children	*15.4	21.3	13.9	15.5	13.4	13.4	*15.6	7.83 - 28.70
Related adults, no children	12.8	13.2	14.7	15.0	15.7	15.8	17.2	16.08 - 18.28
Adult(s) with children	18.1	19.2	20.5	20.2	23.3	22.7	22.8	21.56 - 24.10
Household poverty status <sup>3</sup>								
Poor	10.8	9.5	11.0	10.0	11.0	10.2	10.5	8.55 - 12.73
Near poor	10.3	11.3	12.0	12.7	12.6	13.8	13.3	11.93 - 14.83
Not poor	17.1	18.2	18.8	19.2	20.8	20.4	21.6	20.53 - 22.65
Geographic region <sup>4</sup>								
Northeast	13.8	12.0	15.3	14.9	17.1	18.5	19.5	17.51 - 21.58
Midwest	12.6	13.2	14.6	14.7	17.5	16.3	17.7	15.95 - 19.50
South	14.6	16.2	16.7	17.3	18.1	17.2	18.0	16.77 - 19.28
West	16.4	18.7	17.7	17.7	17.8	18.0	18.1	16.62 - 19.71
Metropolitan statistical area status								
Metropolitan	15.0	15.8	16.9	16.8	18.0	17.8	18.4	17.57 - 19.32
Not metropolitan	12.1	13.4	13.5	14.5	16.5	16.1	17.3	15.64 - 19.18
Home ownership status <sup>5</sup>								
Owned or being bought	14.7	15.9	17.2	17.5	19.6	19.4	20.0	19.01 - 20.95
Renting	13.9	13.0	13.9	13.6	13.9	13.0	13.9	12.83 - 14.98
Other arrangement	14.8	24.6	13.8	15.8	10.8	15.6	20.0	11.75 - 31.93
Number of adults in survey sample who live in landline households with wireless telephones (unweighted)	18,664	14,816	14,886	24,904	20,610	18,357	21,626	

<sup>\*</sup>Estimate has a relative standard error greater than 30% and does not meet National Center for Health Statistics (NCHS) standards for reliability.



... Category not applicable.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

<sup>&</sup>lt;sup>1</sup> Refers to the time period January through June 2011.

<sup>&</sup>lt;sup>2</sup> GED is General Educational Development high school equivalency diploma.

<sup>&</sup>lt;sup>3</sup> Based on household income and household size using the U.S. Census Bureau's poverty thresholds. "Poor" persons are defined as those below the poverty threshold. "Near poor" persons have incomes of 100% to less than 200% of the poverty threshold. "Not poor" persons have incomes of 200% of the poverty threshold or greater. Early Release estimates stratified by poverty status are based on reported income only and may differ from similar estimates produced later that are based on both reported and imputed income. NCHS imputes income when income is unknown, but the imputed income file is not available until a few months after the annual release of National Health Interview Survey microdata. For households with multiple families, household income and household size were calculated as the sum of the multiple measures of family income and family size.

<sup>&</sup>lt;sup>4</sup> In the geographic classification of the U.S. population, states are grouped into the following four regions used by the U.S. Census Bureau. *Northeast* includes Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania. *Midwest* includes Ohio, Illinois, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Kansas, and Nebraska. *South* includes Delaware, Maryland, District of Columbia, West Virginia, Virginia, Kentucky, Tennessee, North Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Oklahoma, Arkansas, and Texas. *West* includes Washington, Oregon, California, Nevada, New Mexico, Arizona, Idaho, Utah, Colorado, Montana, Wyoming, Alaska, and Hawaii.

<sup>&</sup>lt;sup>5</sup> For households with multiple families, home ownership status was determined by considering the reported home ownership status for each family. If any family reported owning the home, then the household-level variable was classified as "Owned or being bought" for all persons living in the household. If one family reported renting the home and another family reported "other arrangement," then the household-level variable was classified as "Other arrangement" for all persons living in the household.