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2013 AMERICAN COMMUNITY SURVEY RESEARCH AND EVALUATION REPORT
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MEMORANDUM FOR ACS Research and Evaluation Advisory Group

From: James B. Treat(**signed on March 11, 2014**)
Chief, American Community Survey Office

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Subject: American Community Survey Item Nonresponse Rates: Mail versus Internet

Attached is the final American Community Survey (ACS) Research and Evaluation report, "American Community Survey Item Nonresponse Rates: Mail versus Internet". We conducted this evaluation to calculate item nonresponse rates across mail and Internet returns to compare the completeness of returns by mode. If you have any questions about this report, please contact Sandra Clark at 301-763-5884.

Attachment

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American Community Survey Item Nonresponse Rates: Mail versus Internet

FINAL REPORT

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Introduction

In January 2013, the Census Bureau began offering respondents the option to complete the American Community Survey (ACS) over the Internet. The ACS is a national survey that collects demographic, housing, social and economic characteristics from all household members. The Census Bureau tested the feasibility of using the Internet mode during two tests that took place in 2011. Census staff evaluated the data from these tests, and the high response rates and potential cost savings encouraged Census to implement the Internet mode in 2013.

The evaluation of the 2011 test data included a review of item nonresponse rates. Matthews et al. (2012) and Tancreto et al. (2012) found that Internet returns, when compared with mail returns, had lower item nonresponse rates for basic demographic and housing items, but higher item nonresponse rates for detailed social and economic items.

The purpose of this evaluation is to document item nonresponse rates for mail and Internet returns and compare the completeness of returns by mode. This evaluation uses 2013 ACS production data and covers several survey items. The best source for comparing the completeness of item-level responses in these two modes is the final edited data but those data will not be available until we run the full set of edit and allocation programs. We plan to document and compare those final item allocation rates later this year. To preview the completeness of mail and Internet responses, we chose to calculate a set of item nonresponse rates based on incoming nonresponse before follow-up operations and editing. There are some expected limitations in using these raw response files which are detailed in the methodology section.

Background

The ACS uses multiple modes of data collection, starting with self-response modes, which encourage households in sample to complete and return the survey on their own. Prior to 2013, the mail questionnaire was the only self-response mode. Beginning in 2013, there are two self-response modes: Internet and mail. Initial mailings are sent to sampled households instructing them to complete the survey online. If an online response is not received within two weeks, we send a mail questionnaire. Those who choose not to reply by self-response are eligible to be contacted by an interviewer over the telephone (Computer Assisted Telephone Interview (CATI)) or in person (Computer Assisted Personal Interview (CAPI)). In addition, we follow-up (by phone) with some mail and Internet returns in an attempt to retrieve missing data through our

Failed Edit Follow-up Operation (FEFU).¹ Note that some returns are also completed over the phone as a result of the respondent calling our help line for Telephone Questionnaire Assistance (TQA). This evaluation focuses only on responses from the the mail and Internet modes before FEFU.

The ACS uses a series of monthly samples to produce annual estimates. Sample addresses selected for a particular survey year are assigned to a panel with three months allocated for data collection across the four modes. The panel represents the month during which cases are assigned for collection, not necessarily the month in which data are collected or tabulated. Table 1 shows the data collection modes by panel and calendar month. The December 2012 panel included only mail as its initial mode while the January 2013 panel used both mail and Internet modes in month 1. Note that we accept mail and Internet responses throughout the full three-month data collection period².

Table 1. Data Collection by Panel and Calendar Month

		Calendar Month						
		Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13
Panel	Dec-12	Mail	Telephone	Personal Visit				
	Jan-13		Mail/Internet	Telephone	Personal Visit			
	Feb-13			Mail/Internet	Telephone	Personal Visit		
	Mar-13				Mail/Internet	Telephone	Personal Visit	
	Apr-13					Mail/Internet	Telephone	Personal Visit
								Personal Visit

The ACS questionnaire is organized into three main sections. These sections are:

- **Basic Demographic** – demographic population items, such as relationship, age, sex, Hispanic origin, and race
- **Housing** – physical and financial characteristics of housing items, such as type of building, kitchen and plumbing facilities, household utilities, and number of rooms
- **Detailed Population** – social and economic population items, such as citizenship, educational attainment, and employment status

¹ The households we follow-up with are determined based on a set of criteria, including the number of people in the household, vacancy status, the number of missing data, and level of criticality assigned to the missing items. See Clark (2012) for more information on FEFU.

² The workload for each mode is assigned to a calendar month, however a small number of cases are received prior to the assigned calendar month. In addition, the official closeout of the panel occurs at the beginning of the calendar month following the month that personal visits are conducted.

The mail questionnaire is shown in Appendix A. The Internet survey is very similar to the mail survey. Like the mail survey, the Internet survey begins with the basic demographic items for each person in the household and then moves to the housing items. Once the housing items are complete, the survey proceeds to the detailed population questions. If there is more than one person in the household the survey includes a screen asking the respondent to pick a person for whom to begin the detailed population items. Once the items are complete for the first person, the respondent is asked to pick another person and answer questions until the detailed population questions are answered for everyone in the household.

As soon as returns are received, we begin processing the data. The mail questionnaire images are scanned to capture the checkbox responses electronically and create scanned images for other responses. The forms then go to keyers who type in the mail write-in responses based on the scanned images. The keyers apply a small number of rules when they key-in the mail data. For example, they remove commas from monetary responses. To be consistent with mail, Internet forms go through a cleanup operation called the Automated Response Cleanup (ARC) that applies these same keying rules. Next, we send both mail and Internet data through another process, called Normalization (NORM), which maps data variables from both modes into the same layout. ARC and NORM must be done so we can merge data from the two modes together for further processing. Once we merge the mail and Internet data into a single dataset, we implement the Automated Clerical Edit (ACE). This process determines which households we attempt to follow-up with over the phone in a FEFU interview. There are additional processing operations; however, they are outside the scope of this analysis.

Research Questions

This report answers the following research questions:

- 1. Are the Internet item nonresponse rates calculated using 2013 ACS production data in line with projections based on the November 2011 ACS Internet Test?**
- 2. How do the 2013 ACS Internet item nonresponse rates compare to the 2013 ACS mail item nonresponse rates?**
- 3. How much of the item nonresponse in each mode is due to households that break off from the survey and leave the detailed population section completely blank for at least one person in the household?**

Methodology and Limitations

This evaluation uses self-response data from the January 2013 ACS panel, which includes data received from December 17, 2012 (the first day the Internet went live) until April 10, 2013 (the close-out date for the January panel). Of the January panel's mailable sample, 28 percent responded by Internet and 23 percent responded by mail. We received most of the responses in late December and January; however, some trickled in the last 2 months of the 3-month data collection period. We include data from Spanish mail and Internet returns in the analysis; however, we exclude data from group quarters and Puerto Rico. We also exclude data received from TQA and FEFU.

We use files created after the NORM operation for this analysis. The data are unedited, meaning they include invalid (e.g., a response of "201" for age) and missing responses. Using unedited data also means that we count some responses of "Don't Know" and "Refused" for write-in fields on Internet returns as valid responses. Our ARC process blanks these sort of Internet responses for monetary write-in, however they remain in our datasets for character write-in fields. For mail returns, the keyers blank such responses for both monetary and character write-ins. The files contain responses provided by respondents for every item on the survey questionnaire (for the mail mode) or instrument (for the Internet mode). The files include all mail returns, except those returned completely blank. The files also include all Internet submissions with enough data to be classified as a "complete," a "sufficient partial, or an "insufficient partial." A "complete" status is assigned to an Internet return if the respondent made it to the end of the survey, and a "sufficient partial" status means that the respondent did not make it to the end of the survey but progressed through the basic demographic and housing sections and at least reached the first detailed person question (the place of birth item). Internet returns not meeting the sufficient partial criteria are assigned an "insufficient partial" status. Most Internet returns with this status are not counted as a survey response because we obtain returns that are more complete for these households through other collection modes. However, we accept "insufficient partial" Internet returns when the insufficient return is the only return we get for the household. Therefore, these "insufficient partials" are included in some of the statistics created for this analysis. To be consistent with the Internet Test estimates, we did not include insufficient partials in the statistics used to answer research question 1. Insufficient partial returns meet the criteria to be considered a breakoff and therefore are also not included in the statistics used to answer research question 3.

We organize the data into two research files. One file includes records with housing-level items, and one includes records with person-level items. The housing-level file contains 137,798 housing unit records (62,302 mail and 75,496 Internet). Vacant housing units are in this file, but are only included in the calculations for the items in which they apply. The person-level file contains 324,362 person records (134,982 mail and 189,380 Internet). The person-level files

include person records for up to five people in the household. We exclude person records for persons six through twelve. The mail questionnaire only has space for a few basic demographic items (name, sex, and age) for persons six through twelve and we follow up by phone to obtain responses for the remaining items. For this reason, all of the detailed social and economic items for these people are missing from the mail data files. While the Internet instrument collects data for all persons, to make the comparison more equitable, this analysis only includes mail and Internet records for persons one through five.

Appendix A shows a sample mail questionnaire with a item label shown in red font. This can be used as a reference to match the items mentioned in the report tables to their corresponding question on the mail questionnaire. In most cases, the questions on the Internet instrument match the one on the mail questionnaire.

To answer the research questions, we calculate item nonresponse rates. We define the item nonresponse rate as the number of missing answers for a particular item divided by the number of respondents in universe for the item. Not all respondents are in universe for every item on the ACS questionnaire. For some items, a respondent is in universe based on their answer to a previous question. For example, there are age requirements for some questions. Because we use unedited data, we had to decide what to do if a respondent did not provide the critical information needed to define a universe. We initially chose to exclude these instances from our eligible universe (i.e., assume that they were not eligible to respond to the item). For example, to be in universe for the “worked last week” item a person must have a response of greater than 15 to the age item. If the age item is missing, we do not know if the person was in universe for the item. For the “worked last week” item, we exclude from the universe (denominator) any person record with a missing age. They, however, are included in both the numerator and denominator we use to calculate the item nonresponse rate for the age item.

We expected that this limitation could depress the true missing data rate for the detailed population items with universes that rely on answers to other items. To quantify this limitation, we conducted a sensitivity analysis to gauge the variability of the item nonresponse rates depending on how we defined the item’s universe. For each item, we calculated two universes. One universe included all cases that were missing the data necessary to determine their universe status. The other universe excluded these cases. We found large differences in the item nonresponse rates that we calculated for items with universes that depend on answers to anything other than the age item. Therefore, we decided to include in this report only the subset of items that are asked of either the entire population or that are restricted to a certain age group. So, we exclude item nonresponse rates for items such as hours worked, which is only asked about people who worked during the last 12 months. Items left missing because the respondent left the survey early are included in our nonresponse count as long as we have enough data to determine if the person record was in universe for the item.

To answer research question 3, we identify and exclude households that left the survey (break off) early, thus limiting the universes to only those respondents who we believe saw the required survey items for everyone in their household. For Internet surveys, this is easy to do because we know when respondents leave the survey, however we have no definite way to know this for mail responses. To be consistent, for both modes we identify households that left the survey early as households with NO detailed person data for one or more rostered persons in the household. We define a rostered person as someone for whom we have a response for at least one of the following items in the basic demographic section: sex, age, date of birth, Hispanic origin or race. A total of 10,653 households (6,842 Internet and 3,811 mail) of the 137,798 households in our research meet the criterion, and are identified as a household that left the survey early. We remove all the person records for these households (8,811 person records from mail returns and 22,645 person records from Internet returns) and re-calculate the item nonresponse rates to answer research question 3. For the purposes of this analysis, we refer to these households as breakoffs. Note that breakoffs can be defined multiple ways and the definition used here is different than the definition used in other evaluations using ACS data. For this part of the analysis, we only examine the detailed population items. We focus only on the items in this section because we know this section is affected the most by breakoffs. Horwitz et al. (2013) found that fewer than 17 percent of households that break off do so in the basic demographic or housing sections of the survey³.

We weight all item nonresponse rates using the base weight, which accounts for the sample design. We conduct statistical significance testing for many of the estimates shown in the report. To do this, we use replicate weights⁴ to calculate the margins of error of the differences between the mail and Internet estimates to determine if the differences are statistically significant. Our tests use a 90 percent confidence level. We did not make adjustments for multiple comparisons.

The rates in this study are calculated on pre-edited data and therefore are not the official ACS item nonresponse rates. Also, the results in this study are from data collected using the ACS data collection methods. The ACS first attempts to collect data from respondents through the Internet survey, then two weeks later we follow up with those who have not responded by sending a mail questionnaire. Respondents are not assigned to respond by mail or Internet randomly, rather those who get both modes ultimately have a choice in their response method. Therefore, the results in this report are not generalizable to how respondents respond to all mail surveys and Internet surveys.

³ Horwitz et al. (2013) define breakoffs slightly different than this evaluation. Their definition of breakoffs includes households that provide some detailed population data for all household members but do not make it to the end of the survey. These households would not be considered breakoffs in this research.

⁴ The ACS uses successive difference replication to produce the replicate weights. For more information see U.S. Census Bureau (2009).

Results

Are the Internet item nonresponse rates calculated using 2013 ACS production data in line with projections based on the November 2011 ACS Internet Test?

To answer this question we used the same definitions for Internet responses that Matthews et al. (2012) used in their 2011 research. Specifically, we included all complete and sufficient partial Internet responses. However, there are some important differences in the test and production data sources. The data used to calculate the 2011 ACS Internet Test rates were collected only during the month of November 2011, while the data used to calculate the 2013 ACS rates were collected throughout the full January 2013 panel's data collection period, which consisted of three months. Unlike the 2013 ACS, the 2011 Test did not include the CATI/CAPI modes. Therefore, the 2011 data did not benefit from phone calls and personal visits that could have prompted additional self response. In addition, the 2011 ACS Internet Test rates were calculated for two separate strata: targeted and not targeted. The targeted stratum consisted of households with people who are young, mobile, and advantaged homeowners. The expectation was that these households are more likely to use the Internet. The not-targeted stratum included all remaining households. Roughly 60 percent of the sample was included in the not targeted stratum and 40 percent in the targeted stratum. The 2013 ACS production data represent the total population and are not broken out by these strata. Finally, the 2013 data source uses the push accelerated with post card notification strategy⁵, while the 2011 data was collected from a combination of notification strategies used during the test. Detailed information describing the stratification and notification strategies used in the November 2011 test is included in Matthews et al. (2012).

Table 2 displays item nonresponse rates from Internet responses from the January 2013 ACS production panel and the two strata-level estimates from the November 2011 ACS Internet Test. Due to the differences noted above, we chose not to make direct comparisons between the rates and, therefore, did not calculate margins of errors. The purpose of this research question is to see if the 2011 test produced reasonable projections of what we found in 2013 production.

Table 2. 2013 ACS and 2011 ACS Internet Test - Internet Item Nonresponse Rates

ITEM	Item Nonresponse Rate		
	2013 ACS (Jan. panel)	2011 ACS Internet Test (Targeted)	2011 ACS Internet Test (Not Targeted)
<i>Basic Demographic Section</i>			
Age/Date of Birth	0.5	0.4	0.4
Sex	0.1	0.1	0.1

⁵ The push accelerated with post card notification strategy was designed to push respondents towards completing the online survey. Respondents first received an invitation to complete the survey online. After two weeks, mail questionnaires were sent to nonrespondents. Those who still had not responded by Internet or mail after two more weeks received reminder post cards.

Table 2. continued...

ITEM	Item Nonresponse Rate		
	2013 ACS (Jan. panel)	2011 ACS Internet Test (Targeted)	2011 ACS Internet Test (Not Targeted)
Relationship	0.0	0.1	0.0
Hispanic Origin	0.3	0.3	0.3
Race	0.3	0.3	0.3
<i>Housing Section</i>			
Building Type	0.2	0.1	0.0
Rooms	0.7	0.5	0.4
Vehicles	1.9	1.2	1.9
Tenure	1.8	1.2	1.7
<i>Detailed Population Section</i>			
Place of Birth	7.2	6.4	7.4
Educationnal Attainment	7.0	6.2	7.4
Language Other Than English	7.3	6.4	7.7
Health Insurance	8.5	7.5	8.8
<i>Housing Section</i>			
Food Stamps	2.0	1.2	1.9
Hearing Difficulty	8.2	7.3	8.7
Worked Last Week	6.9	5.7	7.1

Source: 2013 American Community Survey January Panel and November 2011 ACS Internet Test

A particular stratum is not used for the 2013 ACS. The 2013 ACS rates are closer to the 2011 Internet Test not-targeted stratum, which make sense because that group represents a larger share (60 percent) of the test sample. In general, the 2013 ACS rates are similar to those from the 2011 Internet Test and we did not find any noteworthy differences.

How do the 2013 ACS Internet item nonresponse rates compare to the 2013 ACS mail item nonresponse rates?

To answer this question we compare the item nonresponse rates for all nonblank mail returns with all Internet responses that we will likely use in production as a response. This includes Internet records that we determine to be complete responses, sufficient partial responses, and insufficient partial responses for occupied housing units without a response from another data collection mode. Table 3 shows the Internet and mail item nonresponse rates for the five items in the basic demographic section. Note that they differ from the results in Table 2 due to the differences in the universes. The table includes a column showing the difference between the two rates and another column showing the margin of error of the difference. A negative difference means that the Internet mode has lower levels of missing data. All the differences in Table 3 are statistically significant at the 90 percent confidence level.

Table 3. 2013 ACS Mail and Internet Item Nonresponse Rates – Basic Demographic Section Items

ITEM	Item Nonresponse Rate		Percentage Point Difference (Internet - Mail)	Margin of Error of the Difference (+/-)
	Internet	Mail		
Relationship	0.1	1.3	-1.3	0.1
Sex	0.1	3.0	-2.9	0.1
Age/Date of Birth	0.8	1.7	-0.9	0.1
Hispanic Origin	0.6	7.2	-6.5	0.2
Race	0.7	3.4	-2.7	0.1

Source: 2013 American Community Survey January Panel

All items in the basic demographic section of the survey have low item nonresponse rates for both mail and Internet; however, the rates are lower for Internet than mail (ranging from about 1 to about 6 percentage points lower). The item nonresponse rate for “Hispanic Origin” on mail responses (at 7.2 percent) is somewhat of an outlier compared with the others.

Table 4 shows the Internet and mail item nonresponse rates for the 24 items in the housing section asked of all housing units⁶. All the differences are statistically significant at the 90 percent confidence level.

Table 4. 2013 ACS Mail and Internet Item Nonresponse Rates – Housing Section Items

ITEM	Item Nonresponse Rate		Percentage Point Difference (Internet - Mail)	Margin of Error of the Difference (+/-)
	Internet	Mail		
Building Type	0.5	2.7	-2.3	0.1
Year Built	1.6	8.1	-6.5	0.2
Month Moved In	2.5	9.5	-6.9	0.3
Year Moved In	2.6	5.0	-2.5	0.2
Rooms	1.1	3.9	-2.7	0.1
Bedrooms	1.8	3.5	-1.7	0.2
Running Water	0.8	2.1	-1.3	0.1
Toilet	1.2	2.3	-1.2	0.1
Bath	1.3	2.4	-1.1	0.1
Sink	1.3	2.4	-1.1	0.1
Stove	1.3	2.4	-1.1	0.1
Refrigerator	1.4	2.6	-1.2	0.1
Telephone	1.0	3.8	-2.8	0.2
Own Computer	2.3	3.1	-0.8	0.2
Internet Access	2.4	6.2	-3.8	0.2

⁶ The remaining items in this section are not shown due to the universe limitation associated with using unedited data, which is mentioned in the methodology and limitation section of the report.

Table 4. continued...

ITEM	Item Nonresponse Rate		Percentage Point Difference (Internet - Mail)	Margin of Error of the Difference (+/-)
	Internet	Mail		
Vehicles	2.4	2.8	-0.5	0.2
Heating Fuel	2.5	8.6	-6.1	0.2
Electricity Costs	4.4	6.4	-2.1	0.2
Gas Costs	4.1	13.9	-9.8	0.3
Water Usage Costs	4.3	9.6	-5.3	0.2
Fuel Costs	2.9	18.5	-15.6	0.2
Food Stamps	2.5	3.6	-1.0	0.1
Condominium Costs	2.4	6.5	-4.0	0.2
Tenure	2.3	5.5	-3.2	0.2

Source: 2013 American Community Survey January Panel

The item nonresponse rates from Internet returns are lower than the item nonresponse rates from mail returns for all items in the housing section. Items requiring respondents to provide a monetary amount (i.e., utility costs associated with electricity, gas, water, and fuel) have among the highest item nonresponse rates for both modes. However, the rates for these items are particularly high for mail returns. Appendix B shows the electricity, gas, water, and fuel items from the mail questionnaire. All four items are laid out the same, so it is interesting that the mail item nonresponse rates range from 6.4 percent to 18.5 percent. Perhaps the gas and fuel cost items are higher than the electricity and water items because these amounts are more difficult for respondents to remember. They may fluctuate from month to month and instead of approximating or verifying the gas or fuel amounts, some respondents may choose to skip over these items. Water bills are often a fixed amount and many electricity companies offer their customers a fixed option. Therefore, the amount for these items may be easier for respondents to recall. In addition, there may be some confusion for respondents who pay for electricity and gas together. While there are instructions for how to handle these situations, it is possible that the instructions are not read and respondents only complete one of the items and skip over the other.

The Internet rates for these four items, particularly for the fuel and gas cost items, are quite a bit lower than the mail item rates. The mail item nonresponse rate is 18.5 percent for the fuel costs item and 13.9 percent for the gas cost item. For Internet, these item nonresponse rates are 2.9 percentage and 4.1 percent, respectively. Differences in the Internet and mail questions for the fuel and gas items may help explain the lower Internet rates. Appendix C shows the Internet questions. Notice that there is an additional question (asking about usage) located before the gas cost and fuel cost items. Also, the cost items are broken into two parts⁷. The additional questions/parts may help Internet respondents understand and navigate through these items. It is

⁷ The water and electricity items on the Internet survey do not include the additional item asking about usage. However, the items are broken into two parts like the gas and fuel cost items.

also possible that Internet responders pay their bills online and may have easy access to their statements showing these amounts while they are completing the survey online.

Table 5 shows the Internet and mail item nonresponse rates for 7 items in the detailed population section that are asked of all people in the household and an additional 18 items that are asked of persons in specific age groups⁸. All of the differences are statistically significant at the 90 percent confidence level.

Table 5. 2013 ACS Mail and Internet Item Nonresponse Rates – Detailed Population Section Items

ITEM	Item Nonresponse Rate		Percentage Point Difference (Internet - Mail)	Margin of Error of the Difference (+/-)
	Internet	Mail		
<i>All people</i>				
Place of Birth	8.0	6.0	2.1	0.2
Citizenship	8.0	6.5	1.5	0.2
Ancestry	14.2	19.2	-5.0	0.4
Language Other Than English	7.9	7.5	0.4	0.3
Health Insurance	9.4	7.1	2.3	0.3
Hearing Difficulty	9.1	6.8	2.3	0.2
Vision Difficulty	9.4	7.5	1.9	0.3
<i>Population 1 year and over</i>				
Move in the Last Year	8.1	10.6	-2.5	0.3
<i>Population 3 years and over</i>				
School Enrollment	7.8	8.3	-0.5	0.2
Educational Attainment	7.6	7.9	-0.3	0.2
<i>Population 5 years and over</i>				
Cognitive Difficulty	8.6	9.5	-0.8	0.3
Ambulatory Difficulty	8.7	9.8	-1.1	0.3
Self-care Difficulty	8.8	9.7	-0.9	0.3
<i>Population 15 years and over</i>				
Independent Living Difficulty	8.0	9.6	-1.6	0.3
Marital Status	4.4	9.0	-4.6	0.3
Military Service	7.7	10.8	-3.1	0.3
Grandparent With Grandchildren	8.5	7.9	0.6	0.5
Worked Last Week	7.5	8.2	-0.7	0.3
Interest Income	12.0	25.2	-13.2	0.4
Social Security Income	11.2	20.1	-8.9	0.4
Supplemental Security Income	10.6	20.9	-10.3	0.4
Public Assistance Income	10.8	19.8	-8.9	0.4
Retirement Income	11.1	19.9	-8.7	0.4

⁸ The remaining items in this section are not shown due to the universe limitation associated with using unedited data, which is mentioned in the methodology and limitation section of the report.

Table 5. continued...

ITEM	Item Nonresponse Rate		Percentage Point Difference (Internet - Mail)	Margin of Error of the Difference (+/-)
	Internet	Mail		
Other Income	10.7	19.8	-9.1	0.4
Total Income	13.3	23.4	-10.2	0.4

Source: 2013 Amercian Community Survey January Panel

For both mail and Internet returns, the nonresponse rates for the detailed population items are higher than the rates for the items in the other sections. When comparing mail and Internet rates, most item nonresponse rates in the detailed population section are within five percentage points of one another and many are within two percentage points. The exceptions are the items asking about income sources, which require people to provide a monetary amount. For the income items, the Internet nonresponse rates are nearly half the mail nonresponse rates.

Interestingly, all but one of the items asked of all household members have slightly higher item nonresponse rates for Internet versus mail responses. In addition to being asked of all household members, these items are located in the beginning of the detailed population section. We believe some mail respondents may answer these items for everyone in the household while they skip over other items they may consider more difficult or burdensome due to skip instructions and/or navigation difficulties. It is more difficult for Internet responders to skip through items and therefore some may chose to skip the entire detailed population section for one or more household members.

The only item asked of all household members having a higher Internet item nonresponse rate than mail item nonresponse rate is the ancestry item. This item requires people to write-in an ancestry. It appears that all items that require write-in responses, rather than provide checkbox or radio button response options, have lower item nonresponse rates for Internet responses when compared with mail responses.

The items that are asked of restricted age groups (with the exception of grandparents with grandchildren item) have lower item nonresponse rates for Internet versus mail responses. When reviewing nonresponse rates for items restricted to a particular age group, it is important to consider the universe limitation mentioned in the methodology section. As shown in Table 2, the nonresponse rate for the age item is 1.7 percent for mail returns compared to 0.8 percent for Internet returns. Therefore, this limitation could have a larger impact on the mail item nonresponse rates than the Internet item nonresponse rates for items asked of restricted age groups. To research this, we calculate additional item nonresponse rates for these “age-restricted” items. Unlike the estimates shown in Table 5, the universes for these calculations include the cases missing a response for age. Including these cases, results in slightly higher item

nonresponse rates for both mail and Internet returns. However, the results still show lower item nonresponse rates for Internet versus mail responses.

How much of the item nonresponse in each mode is due to households that break off from the survey and leave the detailed population section completely blank for at least one person in the household?

As noted in the methodology section, more Internet returns (than mail returns) break off before answering the detailed person section for every household member. Of the approximately 189,000 persons on Internet responses about 23,000 (12.2 percent) are from households that did not complete detailed person data for everyone in the household. For mail returns, this estimate is about 6.6 percent (approximately 9,000 of 135,000). We know of at least two reasons for this. First, respondents who break off while completing a mail survey can choose not to mail back the questionnaire; however, we receive all data provided on Internet surveys even if the respondent breaks off without completing or submitting the survey. In addition, mail respondents are less likely to break off at a particular item because they have the survey in their hands and can move around freely and answer questions as they choose. Therefore, mail responders may answer random questions for each person in the household (and not be considered a breakoff or incomplete), while Internet responders may answer questions in the detailed section for only one or two people in the household and then break off before getting to the detailed population items for the other people in the household.

Breakoffs contribute to higher item nonresponse rates for questions located towards the end of the survey since all eligible missing responses are counted as nonresponse when calculating the item nonresponse rates - even responses that are missing because the respondent left the survey before getting to the item. By removing all person records for households that break off, we are able to focus on items skipped over and intentionally left blank by respondents. As mentioned in the methodology section, we define breakoffs as returns missing responses for all the detailed population items for at least one person in the household. Table 6 contains the mail and Internet item nonresponse rates calculated for all people (as shown in Table 5) along with the item nonresponse rates that exclude population records from returns we classify as breakoffs (8,811 person records from mail returns and 22,645 person records from Internet returns are excluded).

We did not calculate margins of errors for the differences shown in Table 6, however we did calculate margins of errors for the differences between mail and Internet item nonresponse rates excluding records for households that break off (all of the differences are statistically significant at the 90 percent confidence level). These are shown in Appendix D. The margins of error are very small, ranging from 0.1 to 0.4 percent.

Table 6. 2013 ACS Mail and Internet Item Nonresponse Rates (Excluding Breakoffs and for All Persons) – Detailed Population Section Items

Item	Internet			Mail		
	Item Nonresponse Rate		Percentage Point Difference	Item Nonresponse Rate		Percentage Point Difference
	Excluding breakoffs	All persons		Excluding breakoffs	All persons	
<i>All people</i>						
Place of Birth	0.1	8.0	-7.9	1.3	6.0	-4.7
Citizenship	0.1	8.0	-7.9	2.0	6.5	-4.5
Ancestry	6.5	14.2	-7.7	15.1	19.2	-4.1
Language Other Than English	0.6	7.9	-7.3	3.4	7.5	-4.1
Health Insurance	1.2	9.4	-8.2	2.5	7.1	-4.6
Hearing Difficulty	0.9	9.1	-8.2	2.2	6.8	-4.6
Vision Difficulty	1.2	9.4	-8.2	2.9	7.5	-4.6
<i>Population 1 year and over</i>						
Move in the Last Year	0.5	8.1	-7.6	6.6	10.6	-4.0
<i>Population 3 years and over</i>						
School Enrollment	0.4	7.8	-7.4	4.2	8.3	-4.1
Educational Attainment	0.2	7.6	-7.4	3.9	7.9	-4.0
<i>Population 5 years and over</i>						
Cognitive Difficulty	1.2	8.6	-7.4	5.5	9.5	-4.0
Ambulatory Difficulty	1.2	8.7	-7.5	5.8	9.8	-4.0
Self-care Difficulty	1.3	8.8	-7.5	5.7	9.7	-4.0
<i>Population 15 years and over</i>						
Independent Living Difficulty	1.2	8.0	-6.8	5.8	9.6	-3.8
Marital Status	0.5	4.4	-3.9	5.1	9.0	-3.9
Grandparent With Grandchildren	0.9	8.5	-7.6	4.2	7.9	-3.7
Military Service	0.8	7.7	-6.9	6.9	10.8	-3.9
Worked Last Week	0.5	7.5	-7.0	4.2	8.2	-4.0
Interest Income	3.7	12.0	-8.3	21.7	25.2	-3.5
Social Security Income	2.7	11.2	-8.5	16.3	20.1	-3.8
Supplemental Security Income	2.1	10.6	-8.5	17.2	20.9	-3.7

Table 6. continued...

Item	Internet			Mail		
	Item Nonresponse Rate		Percentage Point Difference	Item Nonresponse Rate		Percentage Point Difference
	Excluding breakoffs	All persons		Excluding breakoffs	All persons	
<i>Population 15 years and over</i>						
Public Assistance Income	2.3	10.8	-8.5	16.0	19.8	-3.8
Retirement Income	2.6	11.1	-8.5	16.1	19.9	-3.8
Other Income	2.2	10.7	-8.5	16.1	19.8	-3.7
Total Income	4.8	13.3	-8.5	19.7	23.4	-3.7

Source: 2013 American Community Survey January Panel

Once we removed responses from households that break off, all the item nonresponse rates drop for mail and Internet returns. However, the percentage point differences for the Internet rates (decreases of around 7 to 8 percentage points) are larger than the percentage point differences for the mail rates (decreases of around 3 to 4 percentage points). Without breakoffs the item nonresponse rates are lower for Internet responses for all the detailed population items.

As expected, breakoffs increase item nonresponse rates. Returns received from the Internet suffer from breakoffs to a greater extent than mail returns. However, the lower item nonresponse rates for Internet returns without breakoffs suggests that if Internet respondents get to a survey question, they are more likely to provide an answer. This is not particularly surprising as the Internet instrument leads respondents to a screen for each survey item and requires them to click on something within the screen before leading them to the next survey item. They don't necessarily have to provide an answer to the item, but they must press the next button to proceed to the next item. In addition, Internet respondents may get an error message if they don't provide answers for some items. Mail respondents can more easily skip over any survey item.

Table 6 also shows that the ancestry and income items are clearly the most troublesome for respondents. These questions require respondents to write-in a response, which may be more burdensome for some respondents. It is also possible that respondents consider these questions difficult or intrusive and choose not to answer due to privacy concerns.

The rates for the income source items from mail returns remain high. All are over 15 percent. This may suggest that more mail responders than Internet responders provide some level of detailed population data for everyone in the household, but skip over the income items for each household member.

Conclusion

This research confirms the results found in the Internet research conducted in 2011. Overall, item nonresponse rates for Internet returns from 2013 ACS production are similar to those observed during the November 2011 ACS Internet Test.

In this initial look at item nonresponse, we found that Internet nonresponse was lower than mail nonresponse for many of the survey items included in the study. There are a handful of items in the detailed population section of the survey with higher nonresponse for Internet compared to mail, however for those items the differences are very small. This is partly because we obtain data from incomplete Internet returns as long as they make it to the first item in the detailed population section of the survey. We likely have fewer of these sorts of incomplete mail returns because mail respondents can choose not to return them. It is interesting, however, to point out that the items with higher Internet nonresponse rates are the items asked to the entire population. Perhaps, we could obtain more data for this set of items if we asked them of all household members together. We recommend research to test to see if a topic based approach, rather than person based approach, could be used to improve Internet item nonresponse rates for items ask of all household members.

Items requiring respondents to provide a written response generally have nominally higher item nonresponse rates on mail and Internet returns than items that require respondents to choose from a list of checkbox response options. Between modes the differences in the nonresponse rates for the write-in items are larger than the differences in the nonresponse rates for the checkbox items. In fact, the Internet nonresponse rates for nearly all the monetary write-in items are approximately half the mail nonresponse rates.

Finally, the research concludes that we find highly complete data from Internet respondents. However, breakoffs are an issue, particularly for Internet responses. Breakoffs lead to increases in item nonresponse for the social and economic person-level data and more research is necessary to learn the reasons for breakoffs and how to reduce them⁹. Despite breakoffs, no Internet item has a nonresponse rate over 15 percent, which is not unusual for some items from mail returns.

We computed the rates in this study on pre-edited data; therefore, they are not the final ACS item nonresponse rates. The Census Bureau will release the final rates with the 2013ACS estimates later this year. In addition, the findings shown here represent the ACS methods and design and may not represent other Internet and mail surveys.

⁹ Research is currently underway to learn more about Internet breakoffs through another Internet test planned for the summer of 2014.

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U.S. DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. CENSUS BUREAU

THE American Community Survey

Start Here

Respond online today at:
<https://respond.census.gov/acs>

OR

Complete this form and mail it
back as soon as possible.

This form asks for information about the people who are living or staying at the address on the mailing label and about the house, apartment, or mobile home located at the address on the mailing label.



If you need help or have questions about completing this form, please call 1-800-354-7271. The telephone call is free.

Telephone Device for the Deaf (TDD):
Call 1-800-582-8330. The telephone call is free.

¿NECESITA AYUDA? Si usted habla español y necesita ayuda para completar su cuestionario, llame sin cargo alguno al 1-877-833-5625. Usted también puede completar su entrevista por teléfono con un entrevistador que habla español. O puede responder por Internet en: <https://respond.census.gov/acs>

For more information about the American Community Survey, visit our web site at: <http://www.census.gov/acs/www/>

➔ Please print today's date.

Month Day Year

➔ Please print the name and telephone number of the person who is filling out this form. We may contact you if there is a question.

Last Name

First Name MI

Area Code + Number
 -

➔ How many people are living or staying at this address?
 • **INCLUDE** everyone who is living or staying here for more than 2 months.
 • **INCLUDE** yourself if you are living here for more than 2 months.
 • **INCLUDE** anyone else staying here who does not have another place to stay, even if they are here for 2 months or less.
 • **DO NOT INCLUDE** anyone who is living somewhere else for more than 2 months, such as a college student living away or someone in the Armed Forces on deployment.

Number of people

➔ Fill out pages 2, 3, and 4 for everyone, including yourself, who is living or staying at this address for more than 2 months. Then complete the rest of the form.

FORM ACS-1(2013)KFI
06-15-2012

OMB No. 0607-0810



Person 1	Person 2																								
<p>(Person 1 is the person living or staying here in whose name this house or apartment is owned, being bought, or rented. If there is no such person, start with the name of any adult living or staying here.)</p>																									
<p>1 What is Person 1's name? Last Name (Please print) <input style="width: 150px;" type="text"/> First Name <input style="width: 100px;" type="text"/> MI <input style="width: 20px;" type="text"/></p>	<p>1 What is Person 2's name? Last Name (Please print) <input style="width: 150px;" type="text"/> First Name <input style="width: 100px;" type="text"/> MI <input style="width: 20px;" type="text"/></p>																								
<p>2 How is this person related to Person 1? Relationship <input checked="" type="checkbox"/> Person 1</p>	<p>2 How is this person related to Person 1? Mark (X) ONE box.</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Husband or wife</td> <td><input type="checkbox"/> Son-in-law or daughter-in-law</td> </tr> <tr> <td><input type="checkbox"/> Biological son or daughter</td> <td><input type="checkbox"/> Other relative</td> </tr> <tr> <td><input type="checkbox"/> Adopted son or daughter</td> <td><input type="checkbox"/> Roomer or boarder</td> </tr> <tr> <td><input type="checkbox"/> Stepson or stepdaughter</td> <td><input type="checkbox"/> Housemate or roommate</td> </tr> <tr> <td><input type="checkbox"/> Brother or sister</td> <td><input type="checkbox"/> Unmarried partner</td> </tr> <tr> <td><input type="checkbox"/> Father or mother</td> <td><input type="checkbox"/> Foster child</td> </tr> <tr> <td><input type="checkbox"/> Grandchild</td> <td><input type="checkbox"/> Other nonrelative</td> </tr> <tr> <td><input type="checkbox"/> Parent-in-law</td> <td></td> </tr> </table>	<input type="checkbox"/> Husband or wife	<input type="checkbox"/> Son-in-law or daughter-in-law	<input type="checkbox"/> Biological son or daughter	<input type="checkbox"/> Other relative	<input type="checkbox"/> Adopted son or daughter	<input type="checkbox"/> Roomer or boarder	<input type="checkbox"/> Stepson or stepdaughter	<input type="checkbox"/> Housemate or roommate	<input type="checkbox"/> Brother or sister	<input type="checkbox"/> Unmarried partner	<input type="checkbox"/> Father or mother	<input type="checkbox"/> Foster child	<input type="checkbox"/> Grandchild	<input type="checkbox"/> Other nonrelative	<input type="checkbox"/> Parent-in-law									
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<p>3 What is Person 1's sex? Mark (X) ONE box. Sex <input type="checkbox"/> Male <input type="checkbox"/> Female</p>	<p>3 What is Person 2's sex? Mark (X) ONE box. <input type="checkbox"/> Male <input type="checkbox"/> Female</p>																								
<p>4 What is Person 1's age and what is Person 1's date of birth? Age / Date of birth Please report babies as age 0 when the child is less than 1 year old. Print numbers in boxes.</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Age (in years)</td> <td style="text-align: center;">Month</td> <td style="text-align: center;">Day</td> <td style="text-align: center;">Year of birth</td> </tr> <tr> <td style="text-align: center;"><input style="width: 30px;" type="text"/></td> <td style="text-align: center;"><input style="width: 20px;" type="text"/></td> <td style="text-align: center;"><input style="width: 20px;" type="text"/></td> <td style="text-align: center;"><input style="width: 40px;" type="text"/></td> </tr> </table>	Age (in years)	Month	Day	Year of birth	<input style="width: 30px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 40px;" type="text"/>	<p>4 What is Person 2's age and what is Person 2's date of birth? Age / Date of birth Please report babies as age 0 when the child is less than 1 year old. Print numbers in boxes.</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Age (in years)</td> <td style="text-align: center;">Month</td> <td style="text-align: center;">Day</td> <td style="text-align: center;">Year of birth</td> </tr> <tr> <td style="text-align: center;"><input style="width: 30px;" type="text"/></td> <td style="text-align: center;"><input style="width: 20px;" type="text"/></td> <td style="text-align: center;"><input style="width: 20px;" type="text"/></td> <td style="text-align: center;"><input style="width: 40px;" type="text"/></td> </tr> </table>	Age (in years)	Month	Day	Year of birth	<input style="width: 30px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 40px;" type="text"/>								
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<p>→ NOTE: Please answer BOTH Question 5 about Hispanic origin and Question 6 about race. For this survey, Hispanic origins are not races.</p>																									
<p>5 Is Person 1 of Hispanic, Latino, or Spanish origin? Hispanic Origin</p> <p><input type="checkbox"/> No, not of Hispanic, Latino, or Spanish origin</p> <p><input type="checkbox"/> Yes, Mexican, Mexican Am., Chicano</p> <p><input type="checkbox"/> Yes, Puerto Rican</p> <p><input type="checkbox"/> Yes, Cuban</p> <p><input type="checkbox"/> Yes, another Hispanic, Latino, or Spanish origin – Print origin, for example, Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on. ↴</p> <input style="width: 100%;" type="text"/>	<p>5 Is Person 2 of Hispanic, Latino, or Spanish origin?</p> <p><input type="checkbox"/> No, not of Hispanic, Latino, or Spanish origin</p> <p><input type="checkbox"/> Yes, Mexican, Mexican Am., Chicano</p> <p><input type="checkbox"/> Yes, Puerto Rican</p> <p><input type="checkbox"/> Yes, Cuban</p> <p><input type="checkbox"/> Yes, another Hispanic, Latino, or Spanish origin – Print origin, for example, Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on. ↴</p> <input style="width: 100%;" type="text"/>																								
<p>6 What is Person 1's race? Mark (X) one or more boxes. Race</p> <p><input type="checkbox"/> White</p> <p><input type="checkbox"/> Black, African Am., or Negro</p> <p><input type="checkbox"/> American Indian or Alaska Native – Print name of enrolled or principal tribe. ↴</p> <input style="width: 100%;" type="text"/>	<p>6 What is Person 2's race? Mark (X) one or more boxes.</p> <p><input type="checkbox"/> White</p> <p><input type="checkbox"/> Black, African Am., or Negro</p> <p><input type="checkbox"/> American Indian or Alaska Native – Print name of enrolled or principal tribe. ↴</p> <input style="width: 100%;" type="text"/>																								
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Housing

Please answer the following questions about the house, apartment, or mobile home at the address on the mailing label.

- 1 Which best describes this building?**
Include all apartments, flats, etc., even if vacant. **Building Type**
- A mobile home
 - A one-family house detached from any other house
 - A one-family house attached to one or more houses
 - A building with 2 apartments
 - A building with 3 or 4 apartments
 - A building with 5 to 9 apartments
 - A building with 10 to 19 apartments
 - A building with 20 to 49 apartments
 - A building with 50 or more apartments
 - Boat, RV, van, etc.

- 2 About when was this building first built?**
- 2000 or later - *Specify year* →
- | | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|
- Year Built**
- 1990 to 1999
 - 1980 to 1989
 - 1970 to 1979
 - 1960 to 1969
 - 1950 to 1959
 - 1940 to 1949
 - 1939 or earlier

- 3 When did PERSON 1 (listed on page 2) move into this house, apartment, or mobile home?**
- Month Year
- | | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|
- Month and Year Moved In**

A Answer questions 4 - 6 if this is a HOUSE OR A MOBILE HOME; otherwise, SKIP to question 7a.

- 4 How many acres is this house or mobile home on?** **Acres**
- Less than 1 acre → SKIP to question 6
 - 1 to 9.9 acres
 - 10 or more acres

- 5 IN THE PAST 12 MONTHS, what were the actual sales of all agricultural products from this property?** **Agriculture**
- None
 - \$1 to \$999
 - \$1,000 to \$2,499
 - \$2,500 to \$4,999
 - \$5,000 to \$9,999
 - \$10,000 or more

- 6 Is there a business (such as a store or barber shop) or a medical office on this property?** **Business**
- Yes
 - No

- 7 a. How many separate rooms are in this house, apartment, or mobile home?**
Rooms must be separated by built-in archways or walls that extend out at least 6 inches and go from floor to ceiling.
- INCLUDE bedrooms, kitchens, etc.
 - EXCLUDE bathrooms, porches, balconies, foyers, halls, or unfinished basements.

Number of rooms

--

Rooms

- b. How many of these rooms are bedrooms?**
Count as bedrooms those rooms you would list if this house, apartment, or mobile home were for sale or rent. If this is an efficiency/studio apartment, print "0".

Number of bedrooms

--

Bedrooms

- 8 Does this house, apartment, or mobile home have -**
- | | Yes | No | |
|--|--------------------------|--------------------------|---------------|
| a. hot and cold running water? | <input type="checkbox"/> | <input type="checkbox"/> | Running Water |
| b. a flush toilet? | <input type="checkbox"/> | <input type="checkbox"/> | Toilet |
| c. a bathtub or shower? | <input type="checkbox"/> | <input type="checkbox"/> | Bath |
| d. a sink with a faucet? | <input type="checkbox"/> | <input type="checkbox"/> | Sink |
| e. a stove or range? | <input type="checkbox"/> | <input type="checkbox"/> | Stove |
| f. a refrigerator? | <input type="checkbox"/> | <input type="checkbox"/> | Refrigerator |
| g. telephone service from which you can both make and receive calls? <i>Include cell phones.</i> | <input type="checkbox"/> | <input type="checkbox"/> | Telephone |

- 9 At this house, apartment, or mobile home - do you or any member of this household own or use any of the following computers?**
 • EXCLUDE GPS devices, digital music players, and devices with only limited computing capabilities, for example: household appliances.
- | | Yes | No | |
|---|--------------------------|--------------------------|--------------|
| a. Desktop, laptop, netbook, or notebook computer | <input type="checkbox"/> | <input type="checkbox"/> | |
| b. Handheld computer, smart mobile phone, or other handheld wireless computer | <input type="checkbox"/> | <input type="checkbox"/> | Own Computer |
| c. Some other type of computer
<i>Specify</i> ↘ | <input type="checkbox"/> | <input type="checkbox"/> | |

- 10 At this house, apartment, or mobile home - do you or any member of this household access the Internet?** **Internet Access**
- Yes, with a subscription to an Internet service
 - Yes, without a subscription to an Internet service → SKIP to question 12
 - No Internet access at this house, apartment, or mobile home → SKIP to question 12

- 11 At this house, apartment, or mobile home - do you or any member of this household subscribe to the Internet using -**
- | | Yes | No | |
|--|--------------------------|--------------------------|-----------------------|
| a. Dial-up service? | <input type="checkbox"/> | <input type="checkbox"/> | Internet Subscription |
| b. DSL service? | <input type="checkbox"/> | <input type="checkbox"/> | |
| c. Cable modem service? | <input type="checkbox"/> | <input type="checkbox"/> | |
| d. Fiber-optic service? | <input type="checkbox"/> | <input type="checkbox"/> | |
| e. Mobile broadband plan for a computer or a cell phone? | <input type="checkbox"/> | <input type="checkbox"/> | |
| f. Satellite Internet service? | <input type="checkbox"/> | <input type="checkbox"/> | |
| g. Some other service?
<i>Specify service</i> ↘ | <input type="checkbox"/> | <input type="checkbox"/> | |



Housing (continued)

12 How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of this household?

- Vehicles**
- None
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6 or more

13 Which FUEL is used MOST for heating this house, apartment, or mobile home?

- Gas: from underground pipes serving the neighborhood
 - Gas: bottled, tank, or LP
 - Electricity
 - Fuel oil, kerosene, etc.
 - Coal or coke
 - Wood
 - Solar energy
 - Other fuel
 - No fuel used
- Heating Fuel**

14 a. LAST MONTH, what was the cost of electricity for this house, apartment, or mobile home?

Last month's cost - Dollars

\$.00
----	--	--	--	--	--	--	--	--	-----

Electricity

OR

- Included in rent or condominium fee
- No charge or electricity not used

b. LAST MONTH, what was the cost of gas for this house, apartment, or mobile home?

Last month's cost - Dollars

\$.00
----	--	--	--	--	--	--	--	--	-----

Gas

OR

- Included in rent or condominium fee
- Included in electricity payment entered above
- No charge or gas not used

c. IN THE PAST 12 MONTHS, what was the cost of water and sewer for this house, apartment, or mobile home? If you have lived here less than 12 months, estimate the cost.

Past 12 months' cost - Dollars

\$.00
----	--	--	--	--	--	--	--	--	-----

Water Usage

OR

- Included in rent or condominium fee
- No charge

d. IN THE PAST 12 MONTHS, what was the cost of oil, coal, kerosene, wood, etc., for this house, apartment, or mobile home? If you have lived here less than 12 months, estimate the cost.

Past 12 months' cost - Dollars

\$.00
----	--	--	--	--	--	--	--	--	-----

Fuel

OR

- Included in rent or condominium fee
- No charge or these fuels not used

15 IN THE PAST 12 MONTHS, did you or any member of this household receive benefits from the Food Stamp Program or SNAP (the Supplemental Nutrition Assistance Program)? Do NOT include WIC, the School Lunch Program, or assistance from food banks.

- Yes
- No

Food Stamps

16 Is this house, apartment, or mobile home part of a condominium?

- Yes → What is the monthly condominium fee? For renters, answer only if you pay the condominium fee in addition to your rent; otherwise, mark the "None" box.

Monthly amount - Dollars

\$.00
----	--	--	--	--	--	--	--	--	-----

OR

- None
- No

17 Is this house, apartment, or mobile home - Mark (X) ONE box. **Tenure**

- Owned by you or someone in this household with a mortgage or loan? Include home equity loans.
- Owned by you or someone in this household free and clear (without a mortgage or loan)?
- Rented?
- Occupied without payment of rent? → SKIP to C on the next page



Housing (continued)

B Answer questions 18a and b if this house, apartment, or mobile home is **RENTED**. Otherwise, **SKIP** to question 19.

18 a. What is the monthly rent for this house, apartment, or mobile home?

Monthly amount - Dollars

\$.00

b. Does the monthly rent include any meals?

- Yes
 No

Meals Included in Rent

C Answer questions 19 - 23 if you or any member of this household **OWNS** or **IS BUYING** this house, apartment, or mobile home. Otherwise, **SKIP** to **E**.

19 About how much do you think this house and lot, apartment, or mobile home (and lot, if owned) would sell for if it were for sale?

Amount - Dollars

\$.00

20 What are the annual real estate taxes on THIS property?

Annual amount - Dollars

\$.00

OR Property Taxes

- None

21 What is the annual payment for fire, hazard, and flood insurance on THIS property?

Annual amount - Dollars

\$.00

OR

- None

Homeowners Insurance

22 a. Do you or any member of this household have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property? **Mortgage**

- Yes, mortgage, deed of trust, or similar debt
 Yes, contract to purchase
 No → **SKIP** to question 23a

b. How much is the regular monthly mortgage payment on THIS property? Include payment only on **FIRST** mortgage or contract to purchase.

Monthly amount - Dollars

\$.00

OR Mortgage Amount

- No regular payment required → **SKIP** to question 23a

c. Does the regular monthly mortgage payment include payments for real estate taxes on THIS property?

- Yes, taxes included in mortgage payment
 No, taxes paid separately or taxes not required

Taxes Included in Mortgage

d. Does the regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

- Yes, insurance included in mortgage payment
 No, insurance paid separately or no insurance

Insurance Included in Mortgage

23 a. Do you or any member of this household have a second mortgage or a home equity loan on THIS property? **Second Mortgage**

- Yes, home equity loan
 Yes, second mortgage
 Yes, second mortgage and home equity loan
 No → **SKIP** to **D**

b. How much is the regular monthly payment on all second or junior mortgages and all home equity loans on THIS property?

Monthly amount - Dollars

\$.00

Second Mortgage Amount

OR

- No regular payment required

D Answer question 24 if this is a **MOBILE HOME**. Otherwise, **SKIP** to **E**.

24 What are the total annual costs for personal property taxes, site rent, registration fees, and license fees on THIS mobile home and its site? Exclude real estate taxes.

Annual costs - Dollars

\$.00

Mobile Home

E Answer questions about **PERSON 1** on the next page if you listed at least one person on page 2. Otherwise, **SKIP** to page 28 for the mailing instructions.



Person 1

➔ Please copy the name of Person 1 from page 2, then continue answering questions below.

Last Name

First Name MI

7 Where was this person born?

In the United States – Print name of state.

Place of Birth

Outside the United States – Print name of foreign country, or Puerto Rico, Guam, etc.

8 Is this person a citizen of the United States?

Yes, born in the United States → SKIP to question 10a

Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas

Yes, born abroad of U.S. citizen parent or parents

Yes, U.S. citizen by naturalization – Print year of naturalization

Citizenship

No, not a U.S. citizen

9 When did this person come to live in the United States? Print numbers in boxes.

Year

Year of Entry

10 a. At any time IN THE LAST 3 MONTHS, has this person attended school or college? Include only nursery or preschool, kindergarten, elementary school, home school, and schooling which leads to a high school diploma or a college degree. School Enrollment

No, has not attended in the last 3 months → SKIP to question 11

Yes, public school, public college

Yes, private school, private college, home school

b. What grade or level was this person attending? Mark (X) ONE box.

Nursery school, preschool

Kindergarten

Grade 1 through 12 – Specify grade 1 – 12

Grade Attending

College undergraduate years (freshman to senior)

Graduate or professional school beyond a bachelor's degree (for example: MA or PhD program, or medical or law school)

11 What is the highest degree or level of school this person has COMPLETED? Mark (X) ONE box. If currently enrolled, mark the previous grade or highest degree received.

NO SCHOOLING COMPLETED

No schooling completed

NURSERY OR PRESCHOOL THROUGH GRADE 12

Nursery school

Kindergarten

Grade 1 through 11 – Specify grade 1 – 11

Educational Attainment

12th grade – NO DIPLOMA

HIGH SCHOOL GRADUATE

Regular high school diploma

GED or alternative credential

COLLEGE OR SOME COLLEGE

Some college credit, but less than 1 year of college credit

1 or more years of college credit, no degree

Associate's degree (for example: AA, AS)

Bachelor's degree (for example: BA, BS)

AFTER BACHELOR'S DEGREE

Master's degree (for example: MA, MS, MEng, MEd, MSW, MBA)

Professional degree beyond a bachelor's degree (for example: MD, DDS, DVM, LLB, JD)

Doctorate degree (for example: PhD, EdD)

F Answer question 12 if this person has a bachelor's degree or higher. Otherwise, SKIP to question 13.

12 This question focuses on this person's BACHELOR'S DEGREE. Please print below the specific major(s) of any BACHELOR'S DEGREES this person has received. (For example: chemical engineering, elementary teacher education, organizational psychology)

Field of Degree

13 What is this person's ancestry or ethnic origin?

Ancestry

(For example: Italian, Jamaican, African Am., Cambodian, Cape Verdean, Norwegian, Dominican, French Canadian, Haitian, Korean, Lebanese, Polish, Nigerian, Mexican, Taiwanese, Ukrainian, and so on.)

14 a. Does this person speak a language other than English at home? Language Other Than English

Yes

No → SKIP to question 15a

b. What is this language?

Language Spoken

(For example: Korean, Italian, Spanish, Vietnamese)

c. How well does this person speak English?

Very well

Well

Not well

Not at all

English Speaking Ability

15 a. Did this person live in this house or apartment 1 year ago? Move in the Last Year

Person is under 1 year old → SKIP to question 16

Yes, this house → SKIP to question 16

No, outside the United States and Puerto Rico – Print name of foreign country, or U.S. Virgin Islands, Guam, etc., below; then SKIP to question 16

No, different house in the United States or Puerto Rico

b. Where did this person live 1 year ago?

Address (Number and street name)

Migration (Address)

Name of city, town, or post office

Migration (City)

Name of U.S. county or municipio in Puerto Rico

Migration (County)

Name of U.S. state or Puerto Rico

ZIP Code

Migration (State)

Migration (zip code)



Person 1 (continued)

Health Insurance

16 Is this person CURRENTLY covered by any of the following types of health insurance or health coverage plans? Mark "Yes" or "No" for EACH type of coverage in items a - h.

- | | | |
|---|--------------------------|--------------------------|
| | Yes | No |
| a. Insurance through a current or former employer or union (of this person or another family member) | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Insurance purchased directly from an insurance company (by this person or another family member) | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Medicare, for people 65 and older, or people with certain disabilities | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes or a disability | <input type="checkbox"/> | <input type="checkbox"/> |
| e. TRICARE or other military health care | <input type="checkbox"/> | <input type="checkbox"/> |
| f. VA (including those who have ever used or enrolled for VA health care) | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Indian Health Service | <input type="checkbox"/> | <input type="checkbox"/> |
| h. Any other type of health insurance or health coverage plan - Specify | <input type="checkbox"/> | <input type="checkbox"/> |

17 a. Is this person deaf or does he/she have serious difficulty hearing?

- Yes **Hearing Difficulty**
- No

b. Is this person blind or does he/she have serious difficulty seeing even when wearing glasses?

- Yes **Vision Difficulty**
- No

G Answer question 18a - c if this person is 5 years old or over. Otherwise, SKIP to the questions for Person 2 on page 12.

18 a. Because of a physical, mental, or emotional condition, does this person have serious difficulty concentrating, remembering, or making decisions?

- Yes **Cognitive Difficulty**
- No

b. Does this person have serious difficulty walking or climbing stairs?

- Yes **Ambulatory Difficulty**
- No

c. Does this person have difficulty dressing or bathing?

- Yes **Self-care Difficulty**
- No

H Answer question 19 if this person is 15 years old or over. Otherwise, SKIP to the questions for Person 2 on page 12.

19 Because of a physical, mental, or emotional condition, does this person have difficulty doing errands alone such as visiting a doctor's office or shopping?

- Yes **Independent Living Difficulty**
- No

20 What is this person's marital status?

- Now married
- Widowed **Marital Status**
- Divorced
- Separated
- Never married → SKIP to **I**

21 In the PAST 12 MONTHS did this person get -

- | | | |
|--------------|--------------------------|---|
| | Yes | No |
| a. Married? | <input type="checkbox"/> | <input type="checkbox"/> Married... |
| b. Widowed? | <input type="checkbox"/> | <input type="checkbox"/> Widowed... |
| c. Divorced? | <input type="checkbox"/> | <input type="checkbox"/> Divorced... |

22 How many times has this person been married?

- Once **Number of Times Married**
- Two times
- Three or more times

23 In what year did this person last get married?

Year

Year Married

I Answer question 24 if this person is female and 15 - 50 years old. Otherwise, SKIP to question 25a.

24 Has this person given birth to any children in the past 12 months?

- Yes **Fertility**
- No

25 a. Does this person have any of his/her own grandchildren under the age of 18 living in this house or apartment?

- Yes **Grandparents With Grandchildren**
- No → SKIP to question 26

b. Is this grandparent currently responsible for most of the basic needs of any grandchildren under the age of 18 who live in this house or apartment?

- Yes **Grandparents Responsible for Grandchildren**
- No → SKIP to question 26

c. How long has this grandparent been responsible for these grandchildren? If the grandparent is financially responsible for more than one grandchild, answer the question for the grandchild for whom the grandparent has been responsible for the longest period of time.

- Less than 6 months
- 6 to 11 months **Months Grandparents Responsible for Grandchildren**
- 1 or 2 years
- 3 or 4 years
- 5 or more years

26 Has this person ever served on active duty in the U.S. Armed Forces, Reserves, or National Guard? Mark (X) ONE box **Military Service**

- Never served in the military → SKIP to question 29a
- Only on active duty for training in the Reserves or National Guard → SKIP to question 28a
- Now on active duty
- On active duty in the past, but not now

27 When did this person serve on active duty in the U.S. Armed Forces? Mark (X) a box for EACH period in which this person served, even if just for part of the period. **Period of Military Service**

- September 2001 or later
- August 1990 to August 2001 (including Persian Gulf War)
- May 1975 to July 1990
- Vietnam era (August 1964 to April 1975)
- February 1955 to July 1964
- Korean War (July 1950 to January 1955)
- January 1947 to June 1950
- World War II (December 1941 to December 1946)
- November 1941 or earlier

28 a. Does this person have a VA service-connected disability rating? **Service Connected Disability Status**

- Yes (such as 0%, 10%, 20%, ... , 100%)
- No → SKIP to question 29a

b. What is this person's service-connected disability rating? **Service Connected Disability Rating**

- 0 percent
- 10 or 20 percent
- 30 or 40 percent
- 50 or 60 percent
- 70 percent or higher



Person 1 (continued)

29 a. **LAST WEEK, did this person work for pay at a job (or business)?**

- Yes → SKIP to question 30
- No - Did not work (or retired)

b. **LAST WEEK, did this person do ANY work for pay, even for as little as one hour?**

- Yes **Wored Last Week**
- No → SKIP to question 35a

30 **At what location did this person work LAST WEEK?** If this person worked at more than one location, print where he or she worked most last week.

a. **Address (Number and street name)**
 Place of Work (address)

If the exact address is not known, give a description of the location such as the building name or the nearest street or intersection.

b. **Name of city, town, or post office**
 Place of Work (city)

c. **Is the work location inside the limits of that city or town?**
 Yes **Place of Work in City Limits**
 No, outside the city/town limits

d. **Name of county**
 Place of Work (county)

e. **Name of U.S. state or foreign country**
 Place of Work (state)

f. **ZIP Code**
 Place of Work (zipcode)

31 **How did this person usually get to work LAST WEEK?** If this person usually used more than one method of transportation during the trip, mark (X) the box of the one used for most of the distance.

- Journey to Work (method)**
- Car, truck, or van
 - Bus or trolley bus
 - Streetcar or trolley car
 - Subway or elevated
 - Railroad
 - Ferryboat
 - Taxicab
 - Motorcycle
 - Bicycle
 - Walked
 - Worked at home → SKIP to question 39a
 - Other method

J Answer question 32 if you marked "Car, truck, or van" in question 31. Otherwise, SKIP to question 33.

32 **How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?**

Person(s)
 Journey to Work - # of people

33 **What time did this person usually leave home to go to work LAST WEEK?**

Hour Minute
 a.m. **Hour Left for Work**
 p.m.

34 **How many minutes did it usually take this person to get from home to work LAST WEEK?**

Minutes
 Minutes to Work

K Answer questions 35 - 38 if this person did NOT work last week. Otherwise, SKIP to question 39a.

35 a. **LAST WEEK, was this person on layoff from a job?**

- Yes → SKIP to question 35c **Layoff from Work**
- No

b. **LAST WEEK, was this person TEMPORARILY absent from a job or business?**

- Yes, on vacation, temporary illness, maternity leave, other family/personal reasons, bad weather, etc. → SKIP to question 38 **Absent from Work**
- No → SKIP to question 36

c. **Has this person been informed that he or she will be recalled to work within the next 6 months OR been given a date to return to work?**

- Yes → SKIP to question 37 **Recalled to Work**
- No

36 **During the LAST 4 WEEKS, has this person been ACTIVELY looking for work?**

- Yes **Looking For Work**
- No → SKIP to question 38

37 **LAST WEEK, could this person have started a job if offered one, or returned to work if recalled?**

- Yes, could have gone to work **Available to Work**
- No, because of own temporary illness
- No, because of all other reasons (in school, etc.)

38 **When did this person last work, even for a few days?**

- Within the past 12 months **When Last Worked**
- 1 to 5 years ago → SKIP to L
- Over 5 years ago or never worked → SKIP to question 47

39 a. **During the PAST 12 MONTHS (52 weeks), did this person work 50 or more weeks? Count paid time off as work.**

- Yes → SKIP to question 40 **Weeks Worked**
- No

b. **How many weeks DID this person work, even for a few hours, including paid vacation, paid sick leave, and military service?**

- 50 to 52 weeks
- 48 to 49 weeks
- 40 to 47 weeks
- 27 to 39 weeks
- 14 to 26 weeks
- 13 weeks or less

40 **During the PAST 12 MONTHS, in the WEEKS WORKED, how many hours did this person usually work each WEEK?**

Usual hours worked each WEEK
 Hours Worked



Person 1 (continued)

L Answer questions 41 – 46 if this person worked in the past 5 years. Otherwise, SKIP to question 47.

41 – 46 CURRENT OR MOST RECENT JOB ACTIVITY. Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for his/her last job or business.

41 Was this person – Class of Worker
Mark (X) ONE box.

- an employee of a PRIVATE FOR-PROFIT company or business, or of an individual, for wages, salary, or commissions?
- an employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization?
- a local GOVERNMENT employee (city, county, etc.)?
- a state GOVERNMENT employee?
- a Federal GOVERNMENT employee?
- SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm?
- SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm?
- working WITHOUT PAY in family business or farm?

42 For whom did this person work?

If now on active duty in the Armed Forces, mark (X) this box →

Name of company, business, or other employer

Employer

43 What kind of business or industry was this?
Describe the activity at the location where employed. (For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, bank)

Kind of Business

44 Is this mainly – Mark (X) ONE box.

- manufacturing?
- wholesale trade? **Industry**
- retail trade?
- other (agriculture, construction, service, government, etc.)?

45 What kind of work was this person doing?
(For example: registered nurse, personnel manager, supervisor of order department, secretary, accountant)

Occupation

46 What were this person's most important activities or duties? (For example: patient care, directing hiring policies, supervising order clerks, typing and filing, reconciling financial records)

Work Activities

47 INCOME IN THE PAST 12 MONTHS

Mark (X) the "Yes" box for each type of income this person received, and give your best estimate of the TOTAL AMOUNT during the PAST 12 MONTHS. (NOTE: The "past 12 months" is the period from today's date one year ago up through today.)

Mark (X) the "No" box to show types of income NOT received.

If net income was a loss, mark the "Loss" box to the right of the dollar amount.

For income received jointly, report the appropriate share for each person – or, if that's not possible, report the whole amount for only one person and mark the "No" box for the other person.

a. Wages, salary, commissions, bonuses, or tips from all jobs. Report amount before deductions for taxes, bonds, dues, or other items.

Yes → \$ **Wages** .00
 No
 TOTAL AMOUNT for past 12 months

b. Self-employment income from own nonfarm businesses or farm businesses, including proprietorships and partnerships. Report NET income after business expenses.

Yes → \$ **Self Employment Income** .00 Loss
 No
 TOTAL AMOUNT for past 12 months

c. Interest, dividends, net rental income, royalty income, or income from estates and trusts. Report even small amounts credited to an account.

Yes → \$ **Interest Income** .00 Loss
 No
 TOTAL AMOUNT for past 12 months

d. Social Security or Railroad Retirement.

Yes → \$ **Social Security Income** .00
 No
 TOTAL AMOUNT for past 12 months

e. Supplemental Security Income (SSI).

Yes → \$ **Supplemental Security Income** .00
 No
 TOTAL AMOUNT for past 12 months

f. Any public assistance or welfare payments from the state or local welfare office.

Yes → \$ **Public Assistance** .00
 No
 TOTAL AMOUNT for past 12 months

g. Retirement, survivor, or disability pensions. Do NOT include Social Security.

Yes → \$ **Retirement Income** .00
 No
 TOTAL AMOUNT for past 12 months

h. Any other sources of income received regularly such as Veterans' (VA) payments, unemployment compensation, child support or alimony. Do NOT include lump sum payments such as money from an inheritance or the sale of a home.

Yes → \$ **Other Income** .00
 No
 TOTAL AMOUNT for past 12 months

48 What was this person's total income during the PAST 12 MONTHS? Add entries in questions 47a to 47h; subtract any losses. If net income was a loss, enter the amount and mark (X) the "Loss" box next to the dollar amount.

OR \$ **Total Income** .00 Loss
 None TOTAL AMOUNT for past 12 months

→ Continue with the questions for Person 2 on the next page. If no one is listed as person 2 on page 2, SKIP to page 28 for mailing instructions.



Mail Utility Cost Items

14 a. **LAST MONTH, what was the cost of electricity for this house, apartment, or mobile home?**

Last month's cost – Dollars

\$.00
----	--	--	--	--	--	--	--	--	--	-----

Electricity

OR

- Included in rent or condominium fee
- No charge or electricity not used

b. **LAST MONTH, what was the cost of gas for this house, apartment, or mobile home?**

Last month's cost – Dollars

\$.00
----	--	--	--	--	--	--	--	--	--	-----

Gas

OR

- Included in rent or condominium fee
- Included in electricity payment entered above
- No charge or gas not used

c. **IN THE PAST 12 MONTHS, what was the cost of water and sewer for this house, apartment, or mobile home? If you have lived here less than 12 months, estimate the cost.**

Past 12 months' cost – Dollars

\$.00
----	--	--	--	--	--	--	--	--	--	-----

Water Usage

OR

- Included in rent or condominium fee
- No charge

d. **IN THE PAST 12 MONTHS, what was the cost of oil, coal, kerosene, wood, etc., for this house, apartment, or mobile home? If you have lived here less than 12 months, estimate the cost.**

Past 12 months' cost – Dollars

\$.00
----	--	--	--	--	--	--	--	--	--	-----

Fuel

OR

- Included in rent or condominium fee
- No charge or these fuels not used

Internet Gas Use Item

The screenshot shows the 'Internet Gas Use Item' form. At the top left is the United States Census Bureau logo. The title 'American Community Survey' is centered at the top. Below the title are navigation links: 'Instructions', 'FAQs', and 'Save & Logout'. On the right side, there is a 'Where You Are' sidebar with a table of contents: 'Basic Info', 'Housing Questions', and 'Person Info'. The main content area contains question 14b: 'Does this household use gas?'. It has two radio button options: 'Yes' and 'No'. Below the options are two green buttons: '<< Previous' and 'Next >>'. At the bottom right of the form, there is a 'Contact Us' link and a footer with 'Accessibility', 'Privacy', and 'Security' links.

Internet Gas Pay and Gas Cost Items

The screenshot shows the 'Internet Gas Pay and Gas Cost Items' form. It features the same header and navigation as the previous form. The 'Where You Are' sidebar is also present. The main content area contains question 14b: 'Does anyone in this household pay for gas? Select "No" if gas and electricity are billed together and you included the gas payment in the electricity question. (Help)'. It has two radio button options: 'Yes' and 'No'. Below this is question 14c: 'LAST MONTH, what was the cost of gas for this house? (Help)'. It includes a text input field labeled 'Last month's cost — Dollars' with a dollar sign and a '.00' suffix. Below the input field are two green buttons: '<< Previous' and 'Next >>'. At the bottom right, there is a 'Contact Us' link and a footer with 'Accessibility', 'Privacy', and 'Security' links.

Internet Fuel Use Item



American Community Survey

Instructions
FAQs
Save & Logout

14 d. Does this household use other fuels like oil, coal, kerosene, wood, or any other fuel?

Yes
 No

<< Previous
Next >>

Where You Are


Basic Info

Housing Questions

Person Info

[Contact Us](#)
[Accessibility](#) [Privacy](#) [Security](#)

Internet Fuel Pay and Fuel Cost Item



American Community Survey

Instructions
FAQs
Save & Logout

14 d. Does anyone in this household pay for other fuels like oil, coal, kerosene, wood, or any other fuel? [\(Help\)](#)

Yes
 No

➔ **IN THE PAST 12 MONTHS, what was the cost of other fuels like oil, coal, kerosene, wood, or any other fuel for this house?** *If you have lived there less than 12 months, estimate the cost.* [\(Help\)](#)

Past 12 months' cost — Dollars

\$,00

<< Previous
Next >>

Where You Are

Basic Info

Housing Questions

Person Info

[Contact Us](#)
[Accessibility](#) [Privacy](#) [Security](#)

Appendix D

2013 ACS Mail and Internet Item Nonresponse Rates (Excluding Breakoffs) – Detailed Population Section Items

ITEM	Item Nonresponse Rate		Percentage Point Difference (Internet - Mail)	Margin of Error of the Difference (+/-)
	Internet	Mail		
<i>All people</i>				
Place of Birth	0.1	1.3	-1.2	0.1
Citizenship	0.1	2.0	-1.9	0.1
Ancestry	6.5	15.1	-8.6	0.3
Language Other Than English	0.6	3.4	-2.9	0.1
Health Insurance	1.2	2.5	-1.3	0.1
Hearing Difficulty	0.9	2.2	-1.3	0.1
Vision Difficulty	1.2	2.9	-1.7	0.1
<i>Population 1 year and over</i>				
Move in the Last Year	0.5	6.6	-6.0	0.2
<i>Population 3 years and over</i>				
School Enrollment	0.4	4.2	-3.8	0.1
Educational Attainment	0.2	3.9	-3.7	0.1
<i>Population 5 years and over</i>				
Cognitive Difficulty	1.2	5.5	-4.3	0.2
Ambulatory Difficulty	1.2	5.8	-4.6	0.2
Self-care Difficulty	1.3	5.7	-4.4	0.2
<i>Population 15 years and over</i>				
Independent Living Difficulty	1.2	5.8	-4.6	0.2
Marital Status	0.5	5.1	-4.6	0.2
Grandparent With Grandchildren	0.9	4.2	-3.3	0.4
Military Service	0.8	6.9	-6.2	0.2
Worked Last Week	0.5	4.2	-3.8	0.2
Interest Income	3.7	21.7	-18.0	0.4
Social Security Income	2.7	16.3	-13.6	0.3
Supplemental Security Income	2.1	17.2	-15.1	0.3
Public Assistance Income	2.3	16.0	-13.7	0.3
Retirement Income	2.6	16.1	-13.5	0.3
Other Income	2.2	16.1	-13.9	0.3
Total Income	4.8	19.7	-15.0	0.4

Source: 2013 American Community Survey January Panel