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2014 AMERICAN COMMUNITY SURVEY RESEARCH AND EVALUATION REPORT MEMORANDUM SERIES #ACS14-RER-12

MEMORANDUM FOR ACS Research and Evaluation Advisory Group

From: James B. Treat (signed on April 22, 2014)

Chief, American Community Survey Office

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American Community Survey Office

Subject: Review of American Community Survey Item Response Distributions from Self-Administered Modes to Detect Processing Errors

Attached is the final American Community Survey (ACS) Research and Evaluation report, "Review of American Community Survey Item Response Distributions from Self-Administered Modes to Detect Processing Errors". We conducted this evaluation to identify and resolve processing error resulting from the implementation of the Internet mode in the 2013 ACS. If you have any questions about this report, please contact Sandra Clark at 301-763-5884 or Dave Raglin at 301-763-4226.

Attachment

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Review of Item Response Distributions from Self-Administered Modes to Detect Processing Errors

FINAL REPORT

Sandra Luckett Clark



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 (Matthews et al. (2012) and Tancreto et al. (2012)). 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 addition of the Internet mode required the American Community Survey Office (ACSO) to modify many operations, resulting in potential risks to the survey. Before the Internet mode went into production, a Strategic Project Integration Team, along with a series of sub-teams, was established and the new and modified operations were subject to a series of tests. The purpose of the testing was to insure that all operations were working as expected. ACSO staff created test datasets mocking production data to process through the operations. While the tests were thorough and designed to catch processing errors, there are always limitations associated with a test environment. For example, the test datasets may not be all-inclusive and some types of errors could be missed. Alternatively, the operation could be performing as specified, but producing unintended outcomes.

The purpose of this evaluation was to perform an additional check to see how the new and modified operations performed in a production environment. By reviewing the response distributions (including missing data rates) for every item on the survey, we were able to identify and research issues occurring in several operations. This study was designed to be a last check and serve as an early warning system for detecting and repairing processing problems early in the production cycle. It was not a study on mode effects or a study comparing Internet and mail responders.

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). 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 on responses from the mail and Internet modes after FEFU. TQA responses are included in the research.

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.

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

Table 1. Data Collection by Panel and Calendar Month

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 we receive returns, 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. Initially, mail and Internet response data are sent to staff in the American Community Survey Office (ACSO) in the form of text files (referred to as batch files), but are quickly turned into datasets for further processing. We refer to the process of reading in the mail and Internet data as the HU READ operation. To be consistent with mail, Internet data 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. We then combine all selfresponse data with data from TQA, FEFU, CATI, and CAPI together to create the Data Capture Files (DCFs). The DCFs are datasets created after the data have passed through the data processing operations mentioned above. There are additional processing operations; however, they are outside the scope of this analysis.

To accommodate the Internet mode in 2013, we added the ARC operation mentioned above and modified the other processing operations. This research evaluated the self-response data on the Data Capture Files (DCFs). Reviewing the DCF data allowed us to evaluate the processing operations that involved changes.

The annual production cycle includes a thorough review of collected data, however this review does not take place until all data are collected and have gone through the entire processing cycle. This evaluation was necessary to identify possible errors quickly so they could be resolved as early in the production cycle as possible.

Research Questions

This report answers the following research questions:

- 1. Are there response values from either self-response mode that account for zero percent of the item's overall response distribution and indicate a possible data processing error?
- 2. Do any of the estimates appear to be outliers or cause concerns based on expectations and knowledge from prior data review experiences? If so, are they a result of a data processing error?

Methodology

We used several datasets containing response data for every item on the survey. We used the DCFs to create the response distributions. As mentioned above, these are files created after the data passes through the ARC, NORM, ACE, TQA, and FEFU operations. 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.

We also used interim datasets to research errors. The interim datasets are very similar in structure to the DCFs; however, they are created between the processing phases. They allowed us to pinpoint the operation causing the error.

We ran frequency distributions for every item on the survey using data collected from self-response returns. 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. Insufficient partials represent a very small proportion of Internet survey responses. The ACS does not include the majority of the Internet returns with this status 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 as a

response when the insufficient return is the only return we get for the household. The DCFs included all insufficient partials; therefore, we decided to include all of them in the analysis. Data collected through the TQA and FEFU operations are included in the mail distributions. We excluded group quarters and Puerto Rico records. We calculated four sets of percent distributions, shown in Table 2.

Table 2. Self-response Returns Used To Calculate Research Percent Distributions

Distributions for:	Consisting of:	
2012 self-response mode	Mail returns from the December 2012 panel	
2013 self-response modes	Mail returns and Internet surveys from the January 2013 panel	
2013 mail mode	Mail returns from the January 2013 panel	
2013 Internet mode	Internet surveys from the January 2013 panel	

Table 3 shows the number of housing units and person records used in the research.

Table 3. Number of Housing Units and Person Records

Panel / Mode	Housing Units	Person Records
2012 December Panel Mail	131,306	290,646
2013 January Panel Mail	66,102	143,609
2013 January Panel Internet	77,122	196,943

Source: 2012 American Community Survey December Panel and 2013 American Community Survey January Panel

We used specifications provided by the subject matter analysts in the Population (POP) and the Social, Economic and Household Statistics (SEHSD) Divisions to calculate the response distributions. Some survey items include both a checkbox and write-in field. For these items, we chose to analyze the checkbox responses separately from the write-in responses. For numeric write-ins, we organized the numbers into ranges (based on the analyst's specifications). For character write-ins, we only distinguished whether the write-in included a response or if the respondent left the write-in blank.

To answer the research questions, we reviewed the 2013 self-response distributions for each survey item. We used the 2012 self-response distributions as a rough benchmark. We also reviewed the 2013 Internet distributions and the 2013 mail distributions separately. The review provided a first glimpse of incoming 2013 response data and focused on extreme outliers and unexpected distributions. It was a high-level review to identify possible processing errors early in the production cycle. It was not a detailed review of the characteristics of the respondents, or intended to provide preliminary survey estimates.

Processing errors found during the analysis were immediately researched and reported to appropriate staff in the ACSO. The ACSO areas most affected were the ACS Data Collections and ACS Data Processing branches.

Because the purpose of the research was to identify processing errors, we decided it was not necessary to weight the data, calculate sampling errors, or perform statistical testing. We did not include the item response distributions calculated for this research in the report. They are preliminary estimates created from unedited data that we calculated to detect processing errors. The Census Bureau plans to release the final 2013 ACS estimates in September 2014.

Limitations

Using unedited data resulted in some limitations. For a record to be included in the distribution, the record had to be in universe for the item. When missing data prevented us from knowing if the record was in universe for a particular item, we excluded the record from the distribution. For example, if age was missing on a record it was included for the evaluation of age (in the missing data rate), but the record was excluded in the evaluation of other items with a universe requiring an answer for age. In addition, (as mentioned above) some invalid responses from Internet returns (such as "none of your business" in a write-in field) were not identified and therefore were considered a response. This limitation, however, does not affect mail responses because keyers do not key these sort of responses from mail returns.

Research from the 2011 Internet test found that mail and Internet respondents differ (Matthews, 2012). Therefore, we expected differences in self-response and we anticipated shifts in the distributions. This research was not about assessing those things; it was designed to catch processing errors.

Results

Are there response values from either self-response mode that account for zero percent of the item's overall response distribution and indicate a possible data processing error?

Estimates of zero percent could indicate that a response value was not captured in one or more modes, suggesting a processing error. To answer the research question, we reviewed the overall self-response distributions calculated for each survey item using the 2013 January panel data. We also reviewed the 2013 January panel Internet distributions and the 2013 mail distributions separately. For this part of the analysis, we looked for zero percent estimates. We did not find any zero percent estimates. Therefore, we concluded that all survey items are captured on the DCFs and each of the categories specified for the research had at least one response.

Do any of the estimates appear to be outliers or cause concerns based on expectations and knowledge from prior data review experiences? If so, are they a result of a data processing error?

During the research, we noted differences in the distributions for several survey items. We found most differences when comparing the mail and Internet distributions; however, we expected this since we knew going into the research that mail and Internet responders are different. For example, the younger age groups in the age distribution were larger for Internet returns than mail returns; however, we expected this finding because studies show that Internet respondents are more likely than mail respondents to be younger (Matthews, 2012). Our research did not focus on these findings; instead, its focus was on outliers and unexpected differences.

Reviewing the response distributions, including missing data rates, allowed us to uncover several processing errors. We corrected all errors found during this research.

Other type of computer and other Internet service - We found invalid mail response values for these two housing items. Both items are checkbox responses, which require respondents to check the "Yes" checkbox or the "No" checkbox. Therefore, on the DCF we expect response values of "1" for "Yes", "2" for "No", or "Blank" for missing responses. However, in addition to these response values we found response values of "I", indicating an illegal response value. To investigate this, we reviewed all the interim datasets created prior to the DCF. We also reviewed the batch files (initial text files). On the pre-DCF datasets, the response values were "0" for these cases, which is not a valid response value. However, on the batch files the response values were all valid values of "1" or "2". We learned that the HU READ process was incorrectly capturing some values of "1" and "2" as "0". Then during the DCF creation the "0" values were converted to "I" (and treated the same as a missing response) because "0" is an illegal response value. This error caused us to interpret reported data for these two variables as missing responses for nearly 14.000 mail returns.

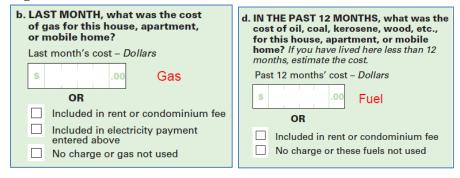
Place of residence one year ago - We noticed high missing data rates from Internet returns for the items in this series. The survey asks this about household members with a response of "No, different house in the United States or Puerto Rico" to the question, "Did this person live in this house or apartment 1 year ago?" The series asks the street address, city, county, state, and zip code of the last residence. When researching the high missing data rates for these items, we noticed that many cases with missing responses for this series had MIGX=1, meaning that they check the checkbox indicating that 1 year ago they lived at the same address as the previous person in the household who provided the address of their last residence. This checkbox only exists on the Internet survey, and can only be checked by the second or subsequent household member who answers, "No, different house in the United States or Puerto Rico." If this checkbox is selected, the instrument applies a hard edit and automatically fills in all five items in the place

of residence one year ago series. Unfortunately, the Internet instrument did not fill in the response values for these items when the checkbox was marked. Therefore, ACSO never received the values for the items in this series for these cases; instead, the values appear as missing. This error caused reported data for the five variables in this series to be interpreted as missing responses for approximately 33,000 person records from Internet returns.

Citizenship and Age - The missing data rates were larger for mail returns than Internet returns for most items. However, the missing data rate for the citizenship item was larger for Internet returns than mail returns, which prompted additional research. We looked at the cases missing citizenship and found that a large number of these cases had age reported as zero years old. We reviewed the age distribution that included zero year olds and noticed that this group represented a larger share of Internet respondents than mail respondents. Initially, we were not concerned about this difference because of the known age differences between mail and Internet responders. We decided to compare the count of zero year olds between modes and found a significantly larger number of Internet zero year olds than mail zero year olds. Tracing response values for the age item for the Internet zero year olds uncovered an error in the ARC process. The error caused us to capture some missing values as a response of "0". A response of "0" is a valid response for the age item; therefore, the error inflated the number of zero year olds. This error incorrectly assigned a value of "0" for the age item for 9,000 Internet person records that did not actually have a response for age.

Gas costs and fuel costs - The Internet response distributions for these items were very different from the mail response distributions. The percentage of Internet respondents in the "No charge or <gas/these fuels> not used" response category for both items was significantly smaller than the percentage of mail respondents in this category. For these items, there are important differences between the mail and Internet questions. The mail form has a checkbox item and a write-in field for both items, as shown in Figure 1.

Figure 1. Mail Gas Cost and Fuel Costs Items - checkbox and write-in



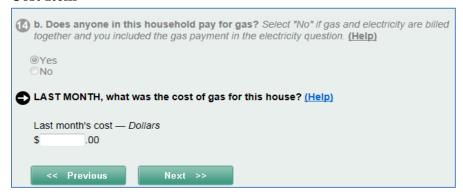
The Internet instrument is set up slightly different. It includes filter questions to help Internet respondents navigate through the survey. The first filter question (Figure 2) asks if the household uses gas/fuel. Based on the answer to the filter question some respondents receive additional

follow-up questions (Figure 3). Figures 2 and 3 show the Internet screens for the *gas cost* item (the *fuel costs* item follows the same layout).

Figure 2. Internet Gas Usage Item – Filter Question



Figure 3. Internet Gas Cost Item – Additional Gas Pay Filter (grayed out) and Follow-up Cost Item



If the Internet respondent answers "No" to the first filter question, they are not asked the additional items. During the NORM operation, we map the mail and Internet variables into the same layout for further processing. In NORM, responses of "No" to the first filter about usage is converted into the mail response, "No charge or <gas/these fuels> not used." Unfortunately, we accidently left this step out of the NORM operation. Therefore, responses of "No charge or <gas/these fuels> not used" were not assigned for these cases in NORM, resulting in an underreporting of responses and an over reporting of missing data for these two items. This error affected responses for over 300,000 households for the *fuel costs* item and over 100,000 households for the *gas cost* item.

Conclusion

We discovered several processing errors because of this research. We uncovered errors occurring in the HU READ operation affecting response values from mail returns for the *other type of computer* and *other Internet service* items. A hard edit in the Internet instrument was missing resulting in missing responses for the five address items in the *place of residence one year ago* series. The ARC operation incorrectly assigned a value of "0" to the *age* item for many Internet

records missing a response for the *age* item. The NORM operation was missing a step necessary to capture Internet data for the *gas cost* and *fuel cost* items.

Reviewing response distributions for the survey items was instrumental in catching and resolving processing errors early in the annual production cycle. ACSO immediately fixed the errors mentioned in this report once they were identified. In addition, ACSO corrected the processes so they did not affect additional data processed through the operations. Because these errors were found early in the process we were able to fix data that was captured incorrectly because of the errors before it goes through final editing and to the subject matter analysts for a detailed subject review.

Despite thorough planning and pre-testing of the new and modified operations, the research uncovered several processing errors. These results show the importance of continuing testing once production has started and demonstrate that it is critical to have intermediate datasets between processing phases in order to investigate and pinpoint the cause of errors. As the ACS program progresses to using new corporate processing systems, like Maestro and CaRDS, we recommend that the teams designing those systems incorporate tools, such as intermediate datasets and detailed specifications, to aid in the review of the survey processing operations. In addition, we recommend that once the new operation is implemented that ACSO conduct research similar to that described here to access the quality of the data and the operating system in a production environment.

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THE American Community Survey

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

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

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

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ACS 1(2013)KFI, Page 5, Base (Black)

ACS 1(2012)KH, Page 5, Green Pentone 354 (10, 20, 40, & 50%)

5

Housing (continued) How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of this household? None 1 2 3 4 5 0 or more	of electricity for this house, apartment, or mobile home? Last month's cost - Dollars OR Included in rent or condominion fee No charge or electricity not used	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 Assistence Program)? Do NOT include WC, the School Lanch Program, or assistence from food banks. Yes
Which FUEL is used MOST for heating this house, apartment, or mobile home? Gas: horm underground pipes serving the neighborhood Gas: bettled, tank, or LP Electricity Huel oil, karosene, atc. Coal or coke Wood Solar energy Other fuel No fuel used	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 sower for this house, apartment, or mobile home? If you have lived here less than 12 months,	None None

ACS-1(2013)KFI, Page 6, Base (Black)

ACS-1(2013) KFI, Page 8, Green Pantone 354 (20, 40, & 50%)

Housing (continued) Answer questions 10s and b if this house, spentment, or mobile from its RENTED Otherwise, SKP to question 19.	a. Do you or any member of this household have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property? Yes, mortgage, deed of trust, or similar dobt Yes, contract to purchase	a. Do you or any member of this household have a second mortgage or a home equity loan on THIS property? Yes, home equity loan Yes, second mortgage Yes, second mortgage and home
a What is the monthly rent for this house, apartment, or mobile home? Monthly amount - Collers b. Does the monthly rent include any meals? Yes No Answer questions 19 - 23 if you or any member of this household OWNS or IS BUYING this house, apartment, or mobile from Otherwice, SXIP to E.	 No → SKIP to question 23s Hew much is the regular monthly mortgage payment on THIS property? Include payment only on FIPST mortgage or contract to purchase. Monthly amount - Dollars OR No regular payment required → SKIP to question 23s c. Does the regular monthly mortgage 	oquity loan No → SAIP 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 OR No regular payment required
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 What are the annual real estate taxes on THIS property? Amount - Dollars OR None	payment include payments for real costate taxes on IHIS property? Yes, taxes included in mortgage payment No, taxes peid separately or taxes not required	Answer question 24 if this is a MOBILE HOME Commisse, SKIP in E. What are the total annual costs for personal property taxes, site rent, registration fees, and license focs on IHIS mobile home and its site? Exclude real costs taxes. Annual costs - Dollars Union page 11 you held at least one person on page 2. Utherwise, SKIP to page 28 for
What is the annual payment for fire, hazard, and flood insurance on THIS property? Annual amount - Liellars OR None		the marking instructions.

ACS 1(2013)KH, Page 7, Base (Black)

ACS 1(2013)KFI, Page 7. Green Pantone 354 (10, 20, 40, & 60%)

Please copy the name of Person 1 from page 2, then continue answering questions below.	What is the highest degree or level of school this person has COMPLETED? Marr (2), ONE for Y currently enrolled, mark the previous grade or highest degree received. NO SCHOOLING COMPLETED No schooling completed	What is this person's ancestry or othnic origin? Eor example; halist: Jamakan, African Am.
Where was this person born? In the United States Print name of state.	Nursery school Nursery school Kindergarier Grade 1 through 11 - Specify grade 1 - 11 - 7	Epr example: halish Jamakan. African Am. Cambodian, Cape Vendon, Norwington, Demirinan, Henrit Lanarian, Halina, Kinean Lahanese, Polish, Migerian, Mexicar, Taimenese, Ustainian, and so on.) a. Does this person speck a language other than English at home? Yes No → SVP to question 15s
Unusuals the United States - Print name of foreign concern, or Planto Rico, Guard, etc. Is this person a civizen of the United States? Yas, born in the United States → SAIP to guestion 10s Yas, born in Poento Rico, Guard, the U.S. Virgin Islands, or Northborn Mananas Yas, horn abroard of U.S. citizen parent or parents Yas, so tituen by naturalization Print year of naturalization No, not a U.S. citizen When did this person come to live in the United States? Print numbers in boxes.	□ Master's degrae (for example: MA, MS, MEng, ME, MEN, MDA) □ Professional degree beyond a backelor's degree (for example: MD, DDS, DVM, LL3, JD) □ Doctorate degree (for example: PhD, EdD) Answer question 12 if this person has a	For example: Korean, Italian, Spaniah, Vietnameae Color For example: Korean, Italian, Spaniah, Vietnameae Color For example: For example
a. At any time IN THE LAST 3 MONTHS, has this person attended school or college? Include only narray or preschool, hardegarten, elementary school invine solucit, and sarroung which leads to a high school algibrate or a college digitate. No, has not attended in the last 3 months → SKP to question 11. You, public school, public college You, private school, private college, home school What grade or level was this person attending? Mark X, ONE box. Nursery school, preschool Kindergarien Grade 1 11. Uallage undergraduate years threshman to senior! Graduate or professional school beyond a bookelor's degrag (for example; Will or PFD) program or the cell of the school.	This question fecuses on this person's BACHELOR'S DEGREE, Please print below the specific majorist of any RACHELOR'S DEGREES this person less received. (For exampler chemical engineering, elementary bachereducation, organizational psychology)	No, different house in the United States or Puerto Hazo b. Where did this person live 1 year ago? Address (Number and street name) Name of city, town, or post office Name of U.S. county or municipin in Puerto Rico Name of U.S. state or Puerto Rico

ACS-1(2013)KH, Page 8, Base (Black)

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ACS-1(2013) KFI, Page 8, Green Pantone 354 (10, 20, 40, 50, & 100%)

Person 1 (continue Is this person CURRENTLY covered by following types of health insurance of severage plans? Mark "Yes" or "No" for at severage in items a h.	y any of the	Answer question 19 if this person is 15 years old or over Otherwise, SKIP to the questions for Person 2 on page 12. Because of a physical, mental, or emotional condition, does this person have difficulty	e. How long has this grandparent been responsible for these grandchildren? If the grandparent is firend ally responsible for more than one grandchild randally responsible for more than one grandchild for whem the grandparent has been responsible for the longest period of time. Less than 6 months
a insurance chrough a current or furner engloyer or uncor (of this parcen or another family momber) h Insurance purchased directly from an insurance company (by this person or another family member)		doing enrands alone such as visiting a ductor's office or shopping?	6 to 11 months 1 or 2 years 3 nr d years
c. Medicare, for people 65 and older, or people with certain disabilities	0 3 20	Walter to the table to	5 or more years
d. Medicaid. Medical Assistance, or any land of government assistance plan for thinks with low incomes or a disability o. TRICARE or other military health care f. VA finduality, those type laye ever used or enrolled for VA health care)		Now merried Widowed Diversed Separated Nover merried → SKIP to 1	Has this person ever served on active duty in the U.S. Armed Forces, Reserves, or National Guard? Mark (X) ONE box News served in the military → SKF to question 28e Only on active duty for training in the Reserves or National Guard → SKIP to question 28e Now on active duty
g. Indian I eaith Service h. Any other type of health insurance or health coverage plan - Specify		Yes No a. Married?	On active duty in the pest, but not now When did this person serve on active duty in the U.S. Armed Funces? Mark (X) a but for EACH period in which this person served, even if just for part of the period.
a. Is this person deaf or does halshe he serious difficulty hearing? Yes No b. Is this person blind or does he/she herious difficulty seeing even when glasses? Yes No	nave 🕏	How many times has this person been married? Once Two times Three or more times In what year did this person last get married? Year	September 2001 of later August 1990 to August 2001 including Person Sulf Way) May 1976 to July 1990 Viotnem era (August 1984 to April 1975) February 1955 to July 1987 Kosean War (July 1950 to January 1955) January 1977 to June 1950 World War II (Benember 1941 to Depember 1945)
G Answer question 18a – c firth's penso 5 years old or ever. Otherwise, SKIP the questions for Person 2 on page 1	to	Answer question 24 if this person is female and 15 - 50 years old. Otherwise, SKIP to question 25a.	a. Does this person have a VA service-connected disability rating?
2. Because of a physical, mental, or encondition, does this person have as difficulty concentrating, remember making decisions? Yes	erinus ring. pr 25 oulty	Has this person given birth to any children in the past 12 months? Yas No Dose this person have any of higher own grandchildren under the age of 18 living in this house or spartment? Yes No → SKP to question 25 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 spartment? Yes No → SKP to question 25	Yes (such as 1%, 10%, 20%,, 100%) No → SKP on question 29a L. What is this person's service-connected disability reting? □ persent □ to P21 persont □ 30 or 41 persont □ 50 or 63 persont □ 10 percent or higher

ACS-1(2013)KFI, Page 9, Base (Black)

ACS-1(2013)KFI, Page 9, Green Parmone 354 (10, 20, 40, & 50%)

		19820323
Person 1 (continued) a. LAST WEEK, did this person work for pay at a job (or business) Yes + 3KiP to question 30 No - Did not work for retired) b. LAST WEEK, did this person do ANY work for pay, even for as fittle as one hour? 1cs No + 3KiP to question 35a At what location did this person work LAST WEEK? It is person worked at more than one housing print where he or she worked into a last week. a. Address (Number and street name)	Answer question 32 if you marked "Car, stuck or van' it question 31. Otherwise. SKIP to question 31. How many people, including this person, usually rade to work in the car, truck, or van LAST WEEK? Person(s) What time did this person usually leave home to go to work LAST WEEK? Hour Minute Latt.	During the LAST 4 WEEKS, has this person been ACTIVELY looking for work? Yes No → SKP to gose from 35 LAST WEEK, equid this person have started a job if affered one, or returned to work if recalled? Yes, could have gone to work No, because of all other reasons (in school, stoler) When did this person last work, even for a few days? Within the past 12 months 1 to 6 years ago or naver worked → SKP to
If me exect 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	person te get from homo to work LAST WEEK?	guestion #/ a. During the PAST 12 MONTHS (52 weeks), did this person work 50 or more weeks? Count paid time off as work. L. You -> SKIP to question 40
c. Is the work location inside the limits of that city or town? Yes No purside the city/town limits d. Name of county	Answer questions 35 - 38 if this person did NOT work last week. Otherwise, SKIP to question 39a. D a. LAST WEEK, was this person on layoff from a job? Yes + SKF to question 35c	L. No b. How many weeks DID this person work, even for a few hours, including paid vecetion, paid sick loave, and military service? 50 to 52 works 48 to 40 works 10 to 47 weeks
e. Name of U.S. state or foreign country 1. ZIP Code	No b. LAST WEEK, was this person TEMPORARILY about from a job or husinoso? ☐ Yes no vecation temporary illness, materialy leave, uther ramin/grasonal reasons, bad weather, std. → SK/Pto grasons. №	During the PAST 12 MONTHS, in the WEEKS WORKED, how many hours did this person usually work each WEEK?
How did this person usually get to work LAST WEEK? If this person usually used more than one method of transperiment diving the trip, mark (A) the box of the one used for most of the distance. Car, truck, ar you Motoscycle Bus or trolley bus Bicycle Streetcer or trolley par Walked Subway or alevated Worked at home ⇒ SKP to question 39a Hailroad Other method Lexicab Other method	No → SKIP to question 36 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 27 No	Usual hours worked each WEEK

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ACS-1/2013/KFI, Page 10. Green Pantone 354 (10. 20. 40. & 50%)

Person 1 (continued)	What kind of work was this person doing? For example, replaced runse, personnel in maper, supervisor of order department, secretary,	d. Social Security or Railroad Rotiroment.
Anowor questions 41 46 if this person worked in the peet 5 years. Otherwise, SKIP to question 47.	a tito masant)	No TOTAL AMOUNT for past
41 - 46 CURRENT OR MOST RECENT JOB NCTIVITY. Describe eleady the person schief job schiefly or outliness that week if this person and more than one job, describe the one at which this person we had the most hours. If this person and not job or business used much, give information for his/her last job or business.	What were this person's most important activities or duties? (For example, patient care, directing hiding policies, supervising order clerks, typing and thing, recording financial records)	e. Supplemental Security Income (SSI). ☐ Yes →
Was this person – Mark (X) CNF how.	INCOME IN THE PAST 12 MONTHS	Any public assistance or welfare payments from the state or local welfare office.
an employee of a PRIVATE FOR PRIOFIT company or business, or of an individual, for wages, salary, or commissions?	Mark (X) the Yes' box for each type of income this person received, and give your hest estimate of the TOTAL AMOUNT ouring the PAST 12 MONTHS. INCITE The 'past 12 months' is the period from	Yes + 1 50
tax exempt, or charitable organization?	today's date one year ago up if rough today.)	TOTAL AMOUNT for past 12 months
[city, county, etc.]?	Mark (X) the "No" box to show types of income NOT received.	g. Retirement, survivor, or disability pensions. Do NOT include Social Security.
☐ a state GOVERNMENT employee? ☐ a Federal GOVERNMENT employee?	If not income was a loss, mark the "Loss" bux to the right of the doller amount.	7 Yes → 500
SELF-EMPLOYED in own NOT INCORPORATED Lusiness, professional practice, or family	For income reserved yearly, report the apprepriate state for each person or if that's not possible, report the whole amount for only one person and	No IUI/L AMOUNT for past
SELE-EMPLOYED in own INCOEPORATED Lusiness, professional practice, or family	report the whole amount for only one person and mark the "No" box for the other person.	2.5 % 6.5 %
working WITHOUT PAY in family business or farm?	a. Wagos, salary, commissions, beauses, or tipe from all jobs. Report amount before describes for teass, bonds, dress, contractions.	 Any other sources of income received regularly such as Votorana' (VA) payments, unemployment componention, child support or alimany. Do NOTine udo lump sum payments.
For whom did this person work? If now on active chity in	☐ Yes →	such as mônay from an inharitanha or tila sale of a burne
the Armed Forces, mark (X) this nov. → ☐ and print the branch of the Armed Forces. Name of company, business, or other employer	TOTAL AMOUNT for past	☐ Yaq → II III III III III III III III III I
What kind of business or industry was this? Describe the activity at the location where employed, iFor example, hospital, newspaper publishing, mail order house, a no engine manufacturing, bank;	h. Self-employment income from own nonferm businesses or farm businesses, including proprietorships and partnerships. Report NL income after business expenses. ☐ Yes → □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	What was this person's total income during the PAST 12 MONTHS? Add endes in questions 47s to 47h; subtract any lesses. Fine income was a less, what he smouth and mark (X) the "Less" be a next to the dollar amount.
\ \	c. Interest, dividends, net rental income, royalty income, or income from estates	None (UTAL AMOUNT for past 12 months
Is this mainly - Mark (NONE hox.	and trusts. Hoport ever smallernounts evoluted to an account.	
☐ wholesale trade?	□ Yoc → = □	
retail trade?	TOTAL AMOUNT for past Loss	
cther (suriculture, construction, service, government, etc.)?	12 FISCHIS	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.
		1

ACS-1(2013)KFI, Page 11, Base (Black)

ACS-1(2013)KFI, Page 11, Green Pantone 354 (10, 20, 40, & 50%)