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Chapter 7: Data Collection and Capture for Housing Units

7.1 Overview

The data collection operation for housing units (HUs) consists of four modes: Internet, mail, telephone, and personal visit. For most HUs, the first phase includes a mailed request to respond via Internet, followed later by an option to complete a paper questionnaire and return it by mail. If no response is received by mail or Internet, the Census Bureau follows up with computer-assisted telephone interviewing (CATI) when a telephone number is available. If the Census Bureau is unable to reach an occupant using CATI, or if the household refuses to participate, the address may be selected for computer-assisted personal interviewing (CAPI).

The ACS includes 12 monthly independent samples. Data collection for each sample lasts for three months, with mail and Internet returns accepted during this entire period, as shown in Figure 7-1. This three-phase process operates in continuously overlapping cycles so that, during any given month, three samples are in the mail/Internet phase, one is in the CATI phase, and one is in the CAPI phase.

Figure 7-1: ACS Data Collection Consists of Three Overlapping Phases
Figure 7-2 summarizes the distribution of interviews and noninterviews for the 20012 ACS. Among the ACS sample addresses eligible for interviewing in the United States, approximately 48 percent were interviewed by mail, seven percent by CATI, and 42 percent were represented by CAPI interviews. Three percent were noninterviews.

![Figure 7-2: Distribution of ACS Interviews and Noninterviews – Source: 2012 ACS Sample](image)

### 7.2 Mail and Internet Phase

Self-response by mail or Internet is the least expensive method of data collection, and the success of the program depends on high levels of self-response. Sample addresses are reviewed to determine whether the available information is sufficient for mailing. The requirement for a ‘‘mailable’’ address in the United States is met if there is either a complete city-style or rural route address. A complete city-style address includes a house number, street name, and ZIP Code. (The town or city and state fields are not required because they can be derived from the ZIP Code.) A complete rural-route address includes a rural-route number, box number, and ZIP Code. About 97 percent of the 2012 sample addresses in the United States met these criteria and were designated as mailable.

The requirement for a mailable address differs slightly in Puerto Rico. In addition to the criteria for the United States, sample city-style addresses in Puerto Rico also must have an ‘‘urbanización’’ name, building name, or condominium name to be considered mailable. About 64 percent of the addresses in Puerto Rico were considered mailable in 2012.

Examples of unmailable addresses include those with only physical descriptions of an HU and its location, or with post office (P.O.) box addresses, as well as addresses missing place names and zip codes. P.O. box addresses are considered unmailable because of the unknown location of the HU using the P.O. box. Addresses missing zip codes are considered unmailable when the place name is also missing. HU addresses not meeting one of the completeness criteria are still included in the sample frame, but they bypass the mail/Internet and telephone phases.
Mail and Internet Strategy

Because a high level of self-response is critical, the ACS employs multiple mailings to encourage respondents to complete the survey via the Internet or to return a paper questionnaire. ACS materials for U.S. addresses are printed in English, and Puerto Rico Community Survey (PRCS) materials sent to Puerto Rico are printed in Spanish. U.S. respondents can request Spanish mailing packages, and Puerto Rico respondents can request English mailing packages, via telephone questionnaire assistance (TQA). The address label file that includes all mailable sample addresses defines the universe for the first three mailings: a prenotice letter, an initial mail package, and a reminder postcard. A replacement mail package and additional reminder postcard are sent to sample addresses when there is no response two weeks after mailing the initial mail package. Households that have not responded by mail, but are not eligible for telephone follow-up are sent yet another postcard at the start of the following month. (Details of each are provided below.)

Prenotice Letter. The first mailing consists of a prenotice letter, signed by the Census Bureau’s director, alerting residents that they will receive instructions on how to complete the survey in a few days and encouraging them to do so promptly. The prenotice letter is mailed on the Thursday before the last Monday of the month, unless that last Monday is one of the last two days of the month, in which case the emailout schedule begins one week earlier. The prenotice letter is one of two ACS items printed in-house using print-on-demand technology, which merges the letter text and the sample address from the address label file. In addition to the prenotice letter, a multi-lingual brochure is included in this mailing. This brochure provides general survey information in English, Spanish, Russian, Chinese, Korean and Vietnamese, and also provides a toll-free number for respondents to receive telephone questionnaire assistance in each language.

Initial Mail Package. The next mailing is the initial mail package. On the front of the envelope is a boxed message stating in bold, uppercase type that a response is required by law. This initial mail package is mailed on the last Monday of the month or on the previous Monday if the last day of the month is a Monday or a Tuesday. The first mail package includes a cover letter, an instruction card for responding via the Internet, and a brochure.

- Cover Letter. The cover letter is from the Census Bureau’s director. It reminds householders that they received the prenotice letter a few days earlier and encourages them to go online to complete the survey as soon as possible. The letter then explains the purpose of the ACS and how the data are used, as well as informs the respondent that if they do not have access to the Internet, a paper questionnaire will automatically be sent to them. Finally, a toll-free telephone number is included for respondents if they have questions or need help completing the questionnaire.

- Instruction Card. This card directs respondents to the website where respondents will complete the survey via Internet, and informs them they will need information pre-printed on
the card in order to log into the survey. It also provides a toll-free number they may call if they have questions or need help. The card provides this information in English on one side, and in Spanish on the other.

- **Frequently Asked Questions (FAQs) Brochure.** This color brochure, available in both English and Spanish, provides answers to frequently asked questions about the ACS. Examples include “What is the American Community Survey?,” “Do I have to answer the questions on the American Community Survey?,” and “Will the Census Bureau keep my information confidential?” A similar brochure about the PRCS is used in packages mailed to Puerto Rico.

**First Reminder Postcard.** The third mailing is a postcard, printed on white cardstock and signed by the director of the Census Bureau. The postcard is mailed on Thursdays, three days after the initial mail package, and reminds respondents to complete the survey via the Internet. The reminder postcard also is printed in-house, using print-on-demand technology to merge text and addresses.

**Replacement Mail Package.** The fourth mailing is sent only to those sample addresses from which the initial questionnaire has not been returned. It is mailed on Thursdays, about 2½ weeks after the initial mail package. The contents are similar except that it contains a different cover letter. Signed by the director of the Census Bureau, it reminds the household of the importance of the ACS, and asks them to respond soon. Additionally, an ACS questionnaire and postage-paid return envelope is included.

**ACS Questionnaire.** The 2013 ACS questionnaires are 28-page, two-color booklet-style forms. They are printed on white paper with colored ink—green for the U.S. form, yellow for the Puerto Rico form. The cover of the questionnaire includes information in English and Spanish on how to obtain assistance, and information on how to respond via the Internet. The questionnaire includes questions about the HU and the people living in it. Space is provided for detailed information for up to five people. Follow-up by telephone is used for households that return their questionnaires by mail and report that six or more people reside in the household.

**Second Reminder Postcard.** The fifth mailing is a postcard, printed on white cardstock signed by the director of the Census Bureau. The postcard is mailed on Mondays, three days after the replacement mail package, and reminds respondents to return their questionnaires or respond via Internet. This postcard also is printed in-house, using print-on-demand technology to merge text and addresses.

**Additional Postcard.** The final mailing is sent at the start of the second month to only those households that did not respond via mail or Internet, and for whom we have not obtained a phone number to contact them during the telephone phase. This card is printed on green cardstock and larger than the other postcards sent to the household, and explains that we may contact them in person if they do not complete the survey.

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In Puerto Rico, a slightly different set of mailings are used since there is not an Internet response option available for Puerto Rico households. In Puerto Rico, the initial mail package includes a paper questionnaire rather than an instruction card for responding via Internet, the replacement packages does not include an instruction card for responding via Internet and there is no second reminder postcard. The timing of the replacement mail package is approximately 3 ½ weeks after the initial mail package for Puerto Rico households.

The Census Bureau’s National Processing Center (NPC) assembles and mails the packages for the selected addresses. All of the components of the mail packages except the prenotice letter and reminder postcard are printed under contract by outside vendors. As the vendors print the materials, NPC quality control staff monitor the work and reject materials that do not meet contractual quality standards.

The NPC is responsible for labeling the outgoing mail packages. Several months before each sample’s mailings, Census Bureau headquarters staff provides an address file to the NPC for use in creating address labels for the first three mailings. An updated address file is provided to the NPC about three days before the mailing of the replacement mail package. This file excludes addresses from which a response was received by mail or Internet during the first two weeks; these usually amount to about 25 to 30 percent of the sample addresses for the United States, and about 10 percent of the sample addresses for Puerto Rico. An additional updated address file for the additional postcard is provided to the NPC three weeks after replacement mailings which excludes addresses from which a response was received via mail or Internet as well as addresses sent to the telephone phase of follow-up.

Most mail and Internet responses are received within five weeks after the initial mail package is sent, but the Census Bureau will continue to accept mail or Internet responses for three months from the start of each monthly sample. After a specified cutoff date, late returns will not be included in the data set.

**Check-In of Paper Questionnaires**

The United States Postal Service (USPS) returns all completed ACS paper questionnaires to the NPC. The check-in unit receives mail deliveries two or three times each business day. Each questionnaire contains a unique bar code in the address label area. The mail returns are sent through a laser sorter, where the bar code is scanned; this allows sorting by and within monthly sample and by location. During this step, the return envelopes are opened mechanically.

After clerks remove the forms from the return envelopes, the forms are taken to a unit where another set of clerks looks at each page of every returned questionnaire. They also look for enclosed correspondence, which they forward to headquarters, if necessary. The clerks then scan the bar code on each questionnaire to officially check in the form, and organize the forms into batches of 50. Staff have three days to check in a form, although usually they check in all

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the forms they receive within one day. Each day, NPC staff transmit a file of the checked-in cases, and headquarters staff update the status of each case in the control file.

Some of the forms are returned to the NPC as ‘‘undeliverable as addressed’’ (UAA) by the USPS. UAAs occur for many reasons, including bad or unknown addresses, vacant HUs, or residents’ refusals to accept mail delivery. Sample addresses that are UAAs are ineligible for the replacement mail packages. UAAs are eligible for the CATI and CAPI operations.

**Telephone Questionnaire Assistance (TQA)**

Respondents that call the toll-free TQA number reach an interactive voice recognition (IVR) telephone system that provides answers to questions about completing the questionnaire, or assists respondents in requesting a questionnaire in another language. The TQA telephone number is listed on the questionnaire, as well as on all of the letters, brochures, and postcards. Alternate TQA numbers are listed on the questionnaire for Spanish speakers and for a telephone device for the deaf (TDD).

When respondents call TQA, they enter the IVR system, which provides some basic information on the ACS and directions on using the IVR. Respondents may obtain recorded answers to FAQs, or they can speak directly to an agent during business hours. Respondents can furnish their ACS identification number from any of the mailing pieces, which allows them to hear a customized message about the current status of their questionnaire. The IVR can indicate whether the NPC has received a completed survey for the sample address and, if not, can state that an ACS interviewer may call or visit. If a respondent chooses to speak directly to an agent, the agent answers the caller’s questions and gives the respondent the option to complete the questionnaire over the telephone. Agents use an automated survey instrument to capture the respondent’s answers. Respondents may also contact TQA staff in order to reset their Internet questionnaire due to losing the PIN number provided when the respondent first accessed their questionnaire online.

Household members from approximately six percent of the mailable addresses called the toll-free number for assistance in 2006 and 2007. For less than one percent of the mailable addresses in 2011 and 2012, household members agreed to complete the survey over the telephone. All calls are logged, and the system can record up to five reasons for each call. Even though TQA interviews are conducted by telephone, they are considered mail responses because the call was initiated by the sample household upon receiving the questionnaire in the mail.

**Data Capture of Paper Questionnaires**

After the paper questionnaires have been checked in and batched into groups of 50, they move to the data entry (keying) unit in the NPC. The keying unit has the goal of keying the responses from the questionnaires within three weeks of receipt. Data keyers enter the information from the forms into a data capture file. Each day, NPC staff transmit a file with the keyed data, and
headquarters staff update the status of each case in the control file. The NPC’s data keying operation uses stringent quality assurance procedures to minimize nonsampling errors.

Data keyers move through three levels of quality assurance verification. When new keyers begin data entry for ACS questionnaires, they are in a training stage, during which 100 percent of their work is checked for correctness. An experienced keyer independently rekeys the same batch of 50 questionnaires, and the work of the two keyers is compared to check for keying errors, defined as incorrectly keyed data items. If the new keyer’s error rate (the percentage of all keyed data items that are in error) in one of the first two batches of questionnaires is equal to or less than 1.5 percent, the keyer is moved to the prequalified stage. If the keyer’s error rate is greater than 1.5 percent, the keyer is retrained immediately, reassessed, and then advances to the prequalified stage. (These keyers are still subject to 100-percent verification.)

Once prequalified keyers key a batch at an error rate equal to or less than 1.5 percent, they are moved to the qualified stage. If these keyers exceed the error rate of 1.5 percent, they receive immediate feedback. A supervisor eventually decides whether to move them to the qualified stage by verifying a sample of their work, with an acceptable error rate of 1.5 percent or less. Keyers at all levels are subject to removal from the project and administrative action if they fail to maintain an error rate of less than 0.80 percent, but most have a much lower rate.

In mid-2007, the Census Bureau moved to a key-from-image (KFI) data capture system for the HU questionnaires, which involves imaging the questionnaire, interpreting the check box entries with optical mark recognition (OMR), and keying write-in responses from the images using a computerized system. The advantages of KFI include the potential for reduced costs and increased data-capture accuracy.

Failed-Edit Follow-Up

After the data are keyed from paper or the data is returned from the Internet, the data files are processed in batches through a computerized edit to check coverage consistency. This edit identifies cases requiring additional information. Cases that fail are eligible for the telephone failed-edit follow-up (FEFU) operation, and become part of the FEFU workload if a telephone number for the sample address is available. This operation is designed to improve the final quality of completed surveys.

Cases failing the edit for coverage consistency can take three forms. First, since the ACS paper questionnaire is designed to accommodate detailed answers for households with five or fewer people, a case will fail when a respondent indicates that there are more than five people living in the household, or if the reported number of people differs from the number of people for whom responses are provided. Second, Internet responses that indicate the sample address is vacant or a business are also treated as coverage failures. Third, the amount of data-defined fields is less than expected and the case data will not be retained for downstream processes. A new set of
FEFU cases is generated each business day, and telephone center staff call respondents to obtain the missing data. The interview period for each FEFU case is three weeks.

### 7.3 Telephone Phase

The second data collection phase is the telephone phase, or CATI. The automated data collection instrument (the set of questions, the list of response categories, and the logic that presents the next appropriate question based on the response to a given question) is written in BLAISE, an open-source scripting software language. The CATI instrument is available in English and Spanish in both the United States and Puerto Rico.

To be eligible for CATI, an HU that did not respond by mail or Internet must have a mailable address and a telephone number. The Census Bureau contracts with vendors who attempt to match the ACS sample addresses to their databases of addresses and then provide telephone numbers. There are two vendors for United States addresses. Since the vendors use different methodologies and sources, one may be able to provide a telephone number while another may not. This matching operation occurs each month before a sample is mailed. About a month later, just prior to the monthly CATI work, headquarters staff transmit a file of the CATI-eligible sample addresses and telephone numbers to a common queue for all three telephone call centers.

The Census Bureau conducts CATI from its three telephone call centers located in Jeffersonville, Indiana; Hagerstown, Maryland; and Tucson, Arizona. The CATI operation begins about five weeks after the first mail package is sent out. A control system, WebCATI, is used to assign the cases to individual telephone interviewers. As CATI interviewers begin contacting the households, the WebCATI system evaluates the skills needed for each case (for example, language or refusal conversion skills) and delivers the case to those interviewers who possess the requisite skill(s).

Once a CATI interviewer reaches a person, the first task is to verify that the interviewer has contacted the correct address. If so, the interviewer attempts to complete the interview. If the householder refuses to participate in the CATI interview, a different CATI interviewer trained in dealing with refusals will call the household after a few days. If the household again refuses, CATI contact attempts are stopped, and the case is coded as a noninterview. If a household responds to the survey via mail or Internet at any time during the CATI operation, that case is removed from the CATI sample and is considered a mail/Internet response. Each day, NPC staff transmit a file with the status of each case, and headquarters staff update the status on the control file.

The CATI operation has a strong quality assurance program, including CATI software-related quality assurance and monitoring of telephone interviewers. The CATI instrument has a sophisticated, integrated set of checks to prevent common errors. For example, a telephone interviewer cannot input out-of-range responses, skip questions that should have been asked, or ask questions that should have been skipped. Both new and experienced telephone interviewers
are subject to random monitoring by supervisors to ensure that they follow procedures for asking questions and effectively probe for answers, and to verify that the answers they key match the answers provided by the respondent.

Approximately 850 interviewers conduct CATI interviews from the Census Bureau’s three telephone call centers. Interviewers participate in a 3-day classroom training session to learn and practice the appropriate interviewing procedures. They have 25 to 26 calendar days to complete the monthly CATI caseload, which averaged in 2012 about 110,000 cases each month. At the end of the CATI interview cycle, all cases receive a CATI outcome code in one of three general categories: interview, noninterview, or ineligible for CATI. This last category includes cases with incorrect telephone numbers. Cases in the last two categories are eligible for the personal visit phase.

7.4 Personal Visit Phase

The last phase of ACS data collection is the personal visit phase, or CAPI. This phase usually begins on the first day of the third month of data collection for each sample, and typically lasts for the entire month.

After mail/Internet and CATI operations have been completed, a CAPI subsample is selected from two categories of cases. Mailable addresses with neither a mail/Internet response nor a telephone interview are sampled at a rate of 1 in 2, 2 in 5, or 1 in 3 based on the expected rate of completed interviews at the tract level. Unmailable addresses are sampled at a rate of 2 in 3. All eligible addresses in Hawaiian Homelands, Alaska Native Village Statistical areas and a subset of American Indian areas are sent to CAPI without subsampling. (U.S Census Bureau 2012).

The CAPI operation is conducted by Census Bureau field representatives (FRs) operating from the Census Bureau’s six regional offices (ROs). The sampled cases are distributed among the six ROs based on their geographic boundaries. The New York RO is responsible for CAPI data collection in Puerto Rico.

After the databases containing the sample addresses are distributed to the appropriate RO, the addresses are assigned to FRs. FRs can conduct interviews by telephone or personal visit, using laptop PCs loaded with a survey instrument similar to the one used in the CATI operation. The CAPI instrument is available in English and Spanish in the United States and Puerto Rico.

If a telephone number is available, the FR will first attempt to call the sample address. There are two exceptions: (1) unmailable addresses, because an FR would not be able to verify the location of the address over the telephone; and (2) refusals from the CATI phase, because these residents already have refused a telephone interview. The FR will call and confirm that he or she has reached the sample address. If so, the FR uses the automated instrument and attempts to conduct the interview. If an FR cannot reach a resident after calling three to five times at different times of the day during the first few days of the interview period, he or she must make a personal visit.
Approximately 80 percent of CAPI cases require an FR visit. In addition to trying to obtain an interview, a visit is needed to determine whether the HU exists and to determine the occupancy status. If an HU does not exist at the sample address, that status is documented. If an FR verifies that an HU is vacant, he or she will interview a knowledgeable respondent, such as the owner, building manager, real estate agent, or a neighbor, and conduct a ‘‘vacant interview’’ to obtain some basic information about the HU. If the HU is currently occupied, the FR will conduct an ‘‘occupied’’ or ‘‘temporarily occupied’’ interview. An FR conducts a temporarily occupied interview when there are residents living in the HU at the time of the FR’s visit, but no resident has been living there or plans to live there for more than two months.

The FRs are trained to remain polite but persistent when attempting to obtain responses. They also are trained on how to handle almost any situation, from responding to a household that claims to have returned its questionnaire by mail, or responded by Internet, to conducting an interview with a non-English speaking respondent.

When FRs cannot obtain interviews, they must indicate the reason. Such noninterviews are taken seriously, because they have an impact on both sampling and nonsampling error. Noninterviews occur when an eligible respondent cannot be located, is unavailable, or is unwilling to provide the survey information. Additional noninterviews occur when FRs are unable to confirm the status of a sample HU due to restricted access to an area because of a natural disaster or nonadmission to a gated community during the interview period. Some sample cases will be determined to be ineligible for the survey. These include sample addresses of structures under construction, demolished structures, and nonexistent addresses.

One of the tasks for an FR is to check the geographic codes (state, county, tract, and block) for each address he or she visits. The FR either confirms that the codes are correct, corrects them, or records the codes if they are missing.

Approximately 3,500 FRs conduct CAPI interviews across the United States and Puerto Rico. Interviewers have almost the entire month to complete the monthly CAPI caseload, which averaged approximately 58,000 cases each month in 2012. Each day, FRs transmit a file with the status of all personal visit cases, and headquarters staff update the statuses on the control file.

FRs participate in a 4-day classroom training session to learn and practice the appropriate interviewing procedures. Supervisors travel with FRs during their first few work assignments to observe and reinforce the procedures learned in training. In addition, a sample of FRs is selected each month and supervisors reinterview a sample of their cases. The primary purpose of the reinterview program is to verify that FRs are conducting interviews, and doing so correctly.

**Data Collection in Remote Alaska**

Remote areas of Alaska provide special difficulties when interviewing, such as climate, travel, and seasonality of the population. To address some of these challenges, the Census Bureau has designated some of these areas to use different procedures for ACS interviewing.
For areas of Alaska that the Census Bureau defines as remote, ACS operations are different from those operations in the rest of the country. The Census Bureau does not mail questionnaires to Remote Alaska sample units and Remote Alaska respondents do not complete any interviews on a paper questionnaire. Remote Alaska respondents are also not eligible to respond to the ACS via the Internet. We do not attempt to conduct interviews with households in Remote Alaska via Census Bureau telephone center interviewers. All interviews for Remote Alaska are conducted using personal visit procedures only, and we do not subsample for CAPI in Remote Alaska as we do elsewhere.

In order to allow FRs in Alaska adequate time to resolve some of the transportation and logistical challenges associated with conducting interviews in Remote Alaska areas, the normal period for interviewing is extended from one month to four months. There are two 4-month interview periods every year in Remote Alaska. The first starts in January and stops at the end of April. The second starts in September and stops at the end of December. These months were identified as most effective in allowing FRs to gain access to remote areas, and in finding residents of Native Villages at home who might be away during the remaining months participating in subsistence activities.

For some boroughs designated as partially remote by the Census Bureau, hub cities in these boroughs are not included in these Remote Alaska procedures. These cities would have cases selected for sample each month of the year, and would be eligible to receive a mail questionnaire, respond using the Internet, or to be contacted by a telephone center or personal visit interviewer. Table 7-1 provides a list of Remote Alaska areas and their associated interview periods.

### Table 7-1: Remote Alaska Areas and their Interview Periods

<table>
<thead>
<tr>
<th>Borough name</th>
<th>All or part of borough designated remote</th>
<th>Interview period for the remote portion of the borough</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aleutians East ................</td>
<td>All</td>
<td>(X)</td>
</tr>
<tr>
<td>Aleutian Islands ..............</td>
<td>All</td>
<td>(X)</td>
</tr>
<tr>
<td>Bethel .........................</td>
<td>Part</td>
<td>½</td>
</tr>
<tr>
<td>Bristol Bay ....................</td>
<td>All</td>
<td>(X)</td>
</tr>
<tr>
<td>Denali ..........................</td>
<td>All</td>
<td>(X)</td>
</tr>
<tr>
<td>Dillingham .....................</td>
<td>Part</td>
<td>(X)</td>
</tr>
<tr>
<td>Lake and Peninsula  ...........</td>
<td>All</td>
<td>(X)</td>
</tr>
<tr>
<td>Nome  ..........................</td>
<td>Part</td>
<td>½</td>
</tr>
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<tr>
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<td>½</td>
</tr>
<tr>
<td>Yukon-Koyukuk ..................</td>
<td>All</td>
<td>½</td>
</tr>
</tbody>
</table>

Note: An X indicates that all workload falls in the interview period.
7.5 References