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Ryan Callahan, Eric Grau, Aleks Wec, Kim McDonald, Bevin Mory, Leah Pranschke, and Jason Markesich

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Social Security Administration
Office of Research, Demonstrations, and Employment Support
500 E. St., SW, 9th Floor
Washington, DC 20254
Project Officer: Mark Trapani
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Submitted by:
Mathematica
Center for Studying Disability Policy
1100 1st Street, NE 12th Floor
Washington, DC 20002-4221
Telephone: (202) 484-9220
Facsimile: (202) 863-1763
Project Director: Jason Markesich
Reference Number: 40160.326
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ACRONYMS

ADLs Activities of Daily Living
AIC Akaike’s Information Criterion
CAPI Computer-assisted personal interviewing
CATI Computer-assisted telephone interviewing
CHAID Chi-Squared Automatic Interaction Detector
DCF Disability Control File
FRA Full retirement age
IADLs Instrumental Activities of Daily Living
ICD-9 International Classification of Diseases–9th revision
NAICS North American Industry Classification System
NBS National Beneficiary Survey
PSU Primary Sampling Units
RBS Representative Beneficiary Sample
SAS Statistical software, formerly Statistical Analysis System (SAS is a registered trademark of SAS Institute, Inc., Cary, NC)
SGA Substantial Gainful Activity
SOC Standard Occupational Classification
SPSS Statistical Package for the Social Sciences (SPSS is a registered trademark of SPSS, Inc., Chicago, IL)
SSA Social Security Administration
SSDI Social Security Disability Insurance (Title II of the Social Security Act)
SSI Supplemental Security Income (Title XVI of the Social Security Act)
SSU Secondary Sampling Units
STATA Statistical software (STATA is a registered trademark of StataCorp LP, College Station, TX.)
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**NBS DATA DOCUMENTATION REPORTS**

The following publicly available reports are available from SSA on their website (https://www.ssa.gov/disabilityresearch/nbs_round_7.html):

- **User’s Guide for Restricted Access and Public Use Data Files** (current report). This report provides users with information about the restricted-use and public use data files, including construction of the files; weight specification and variance estimation; masking procedures employed in the creation of the Public Use File; and a detailed overview of the questionnaire design, sampling, and NBS–General Waves data collection. The report provides information covered in the Editing, Coding, Imputation and Weighting Report and the Cleaning and Identification of Data Problems Report (described below) —including, procedures for data editing, coding of open-ended responses, and variable construction—as well as a description of the imputation and weighting procedures and development of standard errors for the survey. In addition, this report contains an appendix addressing total survey error and the NBS.

- **NBS Public Use File codebook** (McDonald et al. 2021). This codebook provides extensive documentation for each variable in the file, including variable name, label, position, variable type and format, question universe, question text, number of cases eligible to receive each item, constructed variable specifications, and user notes for variables on the public use file. The codebook also includes frequency distributions and means as appropriate.

- **NBS–General Waves Questionnaire** (Callahan et al. 2021). This document contains all items on Round 7 of the NBS–General Waves and includes documentation of skip patterns, question universe specifications, text fills, interviewer directives, and checks for consistency and range.

- **Editing, Coding, Imputation, and Weighting Report** (Grau et al. 2021). This report summarizes the editing, coding, imputation, and weighting procedures as well as the development of standard errors for Round 7 of the NBS–General Waves. It includes an overview of the variable naming, coding, and construction conventions used in the data files and accompanying codebooks; describes how the sampling weights were computed to the provisional post-stratified analysis weights for the successful worker sample (both cross-sectional and longitudinal) and final post-stratified analysis weights for the representative beneficiary sample; outlines the procedures used to impute missing responses; and discusses procedures that should be used to estimate sampling variances for the NBS.

- **Cleaning and Identification of Data Problems Report** (McDonald et al. 2021). This report describes the data processing procedures performed for Round 67 of the NBS–General Waves. It outlines the data coding and cleaning procedures and describes data problems, their origins, and the corrections implemented to create the final data file. The report describes data issues by sections of the interview and concludes with a summary of types of problems encountered and general recommendations.

- **NBS Nonresponse Bias Analysis** (Grau et al. 2021). This report discusses whether the nonresponse adjustments applied to the sampling weights of Round 7 of the NBS-General Waves appropriately accounted for differences between respondents and nonrespondents or whether the potential for nonresponse bias still existed.

The following restricted use report is available from SSA through a formal data sharing agreement:

- **NBS Restricted Access Codebook** (McDonald et al. 2021). This codebook provides extensive documentation for each variable in the file, including variable name, label, position, variable type and
format, question universe, question text, number of cases eligible to receive each item, constructed variable specifications, and user notes for variables on the restricted access file. The codebook also includes frequency distributions and means as appropriate.
I. Introduction

Sponsored by the Social Security Administration’s (SSA’s) Office of Retirement and Disability Policy, the National Beneficiary Survey-General Waves (NBS-General Waves), collects data on the employment-related activities of working-age beneficiaries of Social Security Disability Insurance (SSDI) and Supplemental Security Income (SSI). In 2019, Mathematica conducted the seventh round of data collection since the NBS began in 2004. The first five rounds of the survey—in 2004, 2005, 2006, 2010, and 2017—helped glean information about beneficiary impairments; health; living arrangements; family structure; occupation before disability; and use of non-SSA programs (for example, the Supplemental Nutrition Assistance Program, or SNAP). Rounds 1–4 also evaluated the Ticket to Work and Self-Sufficiency (TTW) program. In Rounds 5 (2015), 6 (2017), and 7 (2019), we sought to uncover important information about the factors that promote beneficiaries’ self-sufficiency and, conversely, the factors that impede beneficiaries’ efforts to maintain employment.

For Round 7 of the NBS, we met the goals of the study through three samples: (1) a cross-sectional sample of all beneficiaries (the Representative Beneficiary Sample, or RBS), (2) a cross-sectional sample of a subset of beneficiaries who maintained a minimum level of earnings for a sustained period (a “successful worker” sample, or SWS), and (3) a subset of SWS cases from Round 6, followed longitudinally in Round 7. The survey was administered to all three of these samples simultaneously. Mathematica collected data by using computer-assisted telephone interviewing (CATI). We deployed in-person field locators to follow-up with some CATI nonrespondents,1 and we offered computer-assisted personal interviewing (CAPI) with sample members who preferred or needed an in-person interview to accommodate their disabilities.2

In the discussion that follows, we provide detailed information about the NBS-General Waves to assist users of the NBS Round 7 Public- and Restricted Access Data files. In the remaining sections of Chapter I, we provide an overview of the NBS-General Waves, including the objectives of the study. In Chapter II, we describe the NBS sample design, while in Chapter III, we provide a summary of the questionnaire design. In Chapter IV, we document the NBS data collection effort, including the locating and calling protocols. We devote Chapter V to discussions of variable construction and editing, the coding of verbatim and open-ended responses, and the masking procedures used to create the Public Use Data File. In Chapter VI, we explain the process for computing and adjusting the sampling weights and provide details of the calculation of the weights, while in Chapter VII we describe the procedures used to impute missing responses for selected questions. Finally, in Chapter VIII, we discuss the use of the NBS data files, including weight specification and variance estimation.

---

1 For a portion of the RBS, we did not employ field follow-up. Instead, we randomly selected telephone nonrespondents for a second phase of data collection involving field follow-up, described later in this chapter, in Section A.2. We also did not employ field follow-up for a portion of the SWS. This portion, referred to as the “unclustered” sample, is also described later—in Section A.2. of this chapter.

2 In Round 7, none of the NBS respondents requested a CAPI interview.
A. Overview of the National Beneficiary Survey

1. Survey objectives

The NBS–General Waves collects important beneficiary data that are not available from SSA administrative data or other sources, including information about their disabilities, interest in work, use of services, and employment. The survey addresses five major questions:

1. What are the work-related goals and activities of SSI and SSDI beneficiaries, particularly as they relate to long-term employment?
2. What are the short-term and long-term employment outcomes for SSI and SSDI beneficiaries who work?
3. What supports help SSA beneficiaries with disabilities find and keep jobs and what barriers to work do they encounter?
4. What are the characteristics and experiences of beneficiaries who work?
5. What health-related factors, job-related factors, and personal circumstances hinder or promote employment and self-sufficiency?

SSA combines data from the NBS with SSA administrative data to provide critical information on access to jobs and employment outcomes for beneficiaries. As a result, SSA and external researchers who are interested in disability and employment issues may use estimates from the survey data for policymaking and program planning efforts.

We addressed the core research questions in Rounds 1 through 4 through two surveys, one of all beneficiaries (the RBS) and one of successful workers in the TTW program (the Ticket Participant Sample, or TPS). The NBS–General Waves (Rounds 5 through 7) no longer focuses on TTW. The survey design for Rounds 5 through 7 initially called for three national cross-sectional surveys of SSI and SSDI beneficiaries (the RBS)—one each in 2014, 2016, and 2018. It also called for cross-sectional surveys, in the same years, of beneficiaries whose benefits were suspended or terminated due to work (with a subset followed longitudinally across rounds). However, due to difficulties in identifying beneficiaries experiencing benefit suspense in SSA’s administrative data, we subsequently revised the design to focus instead on beneficiaries with successful work attempts (the SWS). We delayed the start of NBS–General Waves by one year (from 2014, 2016, and 2018, to 2015, 2017, and 2019) to allow for time to redesign the successful worker portion of the survey and sample, and we ultimately opted not to administer the SWS in Round 5. In lieu of the Round 5 SWS survey, we conducted in-depth qualitative interviews with 91 successful workers about their benefit experiences and their attempts to find and keep a job (O’Day et al. 2016). In Round 6, we conducted the second cross-sectional survey for the RBS in the NBS–General Waves, using the same primary sampling units (PSUs) that were selected in Round 5, simultaneously conducting the first cross-sectional survey for the SWS. In Round 7, we conducted the third cross-sectional survey for the RBS in the NBS–General Waves, the second cross-sectional survey for the

3 Although this is the third RBS in the NBS–General Waves, it is the seventh RBS over the history of the NBS project.
SWS, and a longitudinal follow-up survey for a subset of SWS cases from Round 6. Table I.1 shows the samples that were processed in Rounds 1 through 7.

<table>
<thead>
<tr>
<th>Round</th>
<th>Year</th>
<th>Study</th>
<th>RBS</th>
<th>TPS</th>
<th>SWS</th>
<th>Longitudinal SWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2004</td>
<td>NBS-TTW</td>
<td>☑</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2005</td>
<td>NBS-TTW</td>
<td>☑</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2006</td>
<td>NBS-TTW</td>
<td>☑</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2010</td>
<td>NBS-TTW</td>
<td>☑</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2015</td>
<td>NBS-General Waves</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2017</td>
<td>NBS-General Waves</td>
<td>☑</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2019</td>
<td>NBS-General Waves</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

*Qualitative interviews were also conducted in Round 5 of the NBS-General Waves, in 2015.

2. **Round 7 survey overview**

The NBS was designed and implemented to maximize both response and data quality. In Table I.2, we describe the most significant sources of potential error identified at the outset of the NBS and describe the ways we attempted to minimize the impact of each. We have included a more detailed discussion of our approach to minimizing total survey error in Appendix A.

---

4 Only SWS members who were working at the time of the Round 6 interview were eligible for the longitudinal sample in Round 7.
Table I.2. Sources of error, description, and methods to minimize impact

<table>
<thead>
<tr>
<th>Source of error</th>
<th>Description</th>
<th>Method to minimize impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling</td>
<td>Error that results when characteristics of the selected sample deviates from the characteristics of the population.</td>
<td>Select a large sample size; select PSUs with probability proportional to size, basing the measure of size for each PSU on the counts of beneficiaries in the study population; use stratified sampling by age categories to create units within each stratum as similar as possible.</td>
</tr>
<tr>
<td>Specification</td>
<td>An error that results when the concept intended to be measured by the question is not the same as the concept the respondent ascribes to the question.</td>
<td>Cognitive interviewing during survey development* and pre-testing; use of proxy if sample member is unable to respond due to cognitive disability</td>
</tr>
<tr>
<td>Unit Nonresponse</td>
<td>An error occurring when a selected sample member is unwilling or unable to participate (failure to interview). This can result in increased variance and potential for bias in estimates if nonresponders have different characteristics than responders.</td>
<td>Interviewer training; intensive locating, including field locating; in-person data collection; refusal conversion; incentives; nonresponse adjustment to weights</td>
</tr>
<tr>
<td>Item Nonresponse</td>
<td>An error occurring when items are left blank or the respondent reports that he or she does not know the answer or refuses to provide an answer (failure to obtain and record data for all items). This can result in increased variance and potential bias in estimates if nonresponders have different characteristics than responders.</td>
<td>Use of probes; allowing for variations in reporting units; assurance of confidentiality; assistance during interview; use of proxy if sample member unable to respond due to cognitive disability; imputation on key variables</td>
</tr>
<tr>
<td>Measurement</td>
<td>An error occurring as a result of the respondent or interviewer providing incorrect information (either intentionally or unintentionally). This may result from inherent differences in interview mode.</td>
<td>Use of same instrument in both interview modes; use of probes; adaptive equipment; interviewer training, validation of field interviews; assistance during interview; use of proxy, if sample member unable to respond due to cognitive disability</td>
</tr>
<tr>
<td>Data Processing</td>
<td>An error occurring in data entry, coding, weighting, or analyses.</td>
<td>Coder training; monitoring and quality control checks of coders; quality assurance review of all weighting and imputation procedures</td>
</tr>
</tbody>
</table>

*aConducted during survey development phase under a separate contract held by Westat.

We did not expect item nonresponse to be a large source of error because there were few obviously sensitive items. In fact, item nonresponse was greater than 6 percent only for select items asking for wages and household income. Unit nonresponse was the greater concern given the population; thus, we designed the survey to be executed as a dual-mode survey. If a sample member could not participate in the survey because of an intellectual disability, even with help from a friend or family member, we sought a proxy respondent. To promote response among Hispanic populations, we translated the questionnaire into Spanish. For languages other than English or Spanish, interpreters, if available in the sample person’s

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*Item nonresponse was less than 5 percent for the vast majority of variables, but it was 5.01 percent for three constructed disability variables. Details are provided in Chapter VII.*
home, conducted the interviews. We made a number of additional accommodations for those with hearing or speech impairments, including using a telecommunications relay service (TRS) and amplifiers.

If Mathematica could not locate and contact a sample member by telephone and the case was selected for field follow-up, we deployed a field locator to make contact in person. After locating the sample member, the field locator attempted to facilitate an interview with them via CATI, using a cell phone (or the sample member’s own phone, if preferred) to call into the data collection center. If a sample member could not complete the interview by telephone in this manner due to their disability, trained field staff were available to conduct the interview in person using CAPI. In Round 7, none of the NBS respondents requested a CAPI interview.

The Round 7 sample comprised 23,601 cases: 11,299 in the RBS, 8,590 in the cross-sectional SWS, and 3,712 in the longitudinal SWS. In total, Mathematica completed 9,092 interviews (including 137 partially completed interviews). Of these, 4,008 were completed from the RBS, 3,016 from the cross-sectional SWS, and 2,068 from the longitudinal SWS. An additional 261 beneficiaries from the RBS, 311 from the cross-sectional SWS, and 46 longitudinal SWS cases were deemed ineligible for the survey. Because of the independence of the sample selections for the RBS and the cross-sectional SWS, the clustered and unclustered samples within the cross-sectional SWS, and the Round 6 SWS (the source for the Round 7 longitudinal SWS), individuals could be selected for more than one sample. After accounting for 269 cases actually selected for more than one sample, the number of unique completed interviews was 8,823. Mathematica completed all of these interviews by telephone. We completed proxy interviews for 1,113 sample members in the RBS, for 293 sample members in the cross-sectional SWS, and for 151 sample members in the longitudinal SWS, for a total of 1,557 proxy interviews across the three sample groups. In addition, we completed a total of 242 interviews in Spanish—104 in the RBS, 74 in the cross-sectional SWS, and 64 in the longitudinal SWS.

The weighted response rates for Round 7 of the NBS are 54.7 percent for the RBS, 41.0 percent for the cross-sectional SWS, and 54.5 percent for the longitudinal SWS. More information about sample selection and sampling weights is available in Grau et al. (2021).

B. NBS Restricted Access and Public Use Data Files

To protect the anonymity of NBS respondents while still providing accurate and detailed data, we present the NBS-General Waves data in two formats: a Restricted Access Data File, which is available only to users approved by SSA and for use on specific research projects, and a Public Use Data File, which SSA plans to release for the public’s use in various statistical analyses. These two files present the same survey results, but offer differing degrees of accessibility to confidential information. For both data files, we have removed any information that could directly or indirectly identify a respondent, including respondents’ names, Social Security numbers, and addresses. Because of its more widespread availability, the Public

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6 Ineligible sample members include those who were deceased, incarcerated, in active military, or no longer living in the continental United States as well as those whose benefit status was pending at the time of the interview. For the cross-sectional SWS, ineligibles also included sample members who had not worked in the past six months at the time of the interview.

7 Among sample cases that were completed interviews only, there were 23 duplicates (46 sample cases total) between the RBS and cross-sectional SWS and 76 duplicates (152 sample cases total) between the clustered and unclustered samples within the cross-sectional SWS. Duplicates and triplicates also occurred with the longitudinal SWS.
Use Data File has undergone extensive masking and includes fewer available variables than the Restricted Access Data File. Even with variables masked, however, the Public Use Data File offers a wide variety of pertinent variables and topics for the general public’s use. A full discussion of the masking procedures employed to create the Public Use Data File appears in Chapter V. In Appendix B, we provide a list of the variables available in both the Restricted Access Data File and the Public Use Data File.

The Public Use Data File is available to researchers through SSA’s website https://www.ssa.gov/disabilityresearch/publicusefiles.html#tag2. Researchers must contact SSA to obtain permission to use the Restricted Access Data File.
II. SAMPLE DESIGN

A. Overview of the design

For all survey rounds, the NBS has used a multistage sampling design for both the RBS and cross-sectional SWS, with an independently drawn supplemental single-stage sample for some successful worker populations. In Round 7, we drew the cross-sectional SWS and RBS independently, from separate frames, although the SWS frame was a subset of the RBS frame. This means that some sample members could have been selected for both the RBS and the cross-sectional SWS—which occurred for 90 individuals (of which 30 responded). Because most analyses do not require combining the samples, we did not adjust the RBS and cross-sectional SWS weights for these duplicates. However, in case an analysis would require combining the samples, we also created composite weights that accounted for duplicates (individuals who were selected for both samples). These composite weights also accounted for those in the RBS that were not part of the cross-sectional SWS but were part of the SWS frame.

The longitudinal SWS was composed of all sample cases that (1) completed a Round 6 SWS interview and (2) reported to be currently working at the time of the Round 6 survey.

1. RBS

For the RBS in Round 7, we fielded a nationally representative sample of 11,299 SSA disability beneficiaries. The sample design for the Round 7 RBS was similar to the design of the RBS in prior rounds, through there were two important changes: (1) we stratified the sample of PSUs differently in Rounds 1 through 4 than we did in Rounds 5 through 7, and (2) all telephone nonrespondents were followed up in the field in Rounds 1 through 6, but only a random sample of telephone nonrespondents were followed up in the field in Round 7, as described in more detail below. We stratified the RBS by

8 The RBS and the main sample of the SWS involved selecting individuals within selected clusters of geographic areas, and they are therefore referred to as “clustered samples.” The supplemental sample (for the SWS only) was selected across the entire population of successful workers and was therefore not limited to those residing in selected clusters. It is therefore referred to as an “unclustered sample.” This is discussed in detail later.

9 Of the 30 who responded, 28 were considered completes for both the cross-sectional SWS and RBS. Of the remaining 2 respondents, 1 was completed in the field for the SWS but was not selected for field operations in the second phase of the RBS, and thus was not an RBS complete. The other was an RBS complete but was considered ineligible for the cross-sectional SWS because the person had not been working in the past six months. Therefore, there were 29 total RBS completes, and 29 total cross-sectional SWS completes.

10 There were an additional 56 sampled cases in the RBS, of which 19 responded, that were part of the SWS frame, but were not sampled for the SWS.

11 We did not create composite weights that combined sample cases from the longitudinal SWS with any other sample. Longitudinal SWS respondents were selected based on their work activity at Round 6; therefore, they cannot be meaningfully combined with any of the other Round 7 samples.

12 The sample design for Rounds 1 through 4 included two samples: one for all beneficiaries (the RBS) and one for the ticket participants (the TPS). To accommodate the rollout of the TTW program, the PSUs were sampled within strata defined by the three phases of the rollout. The design for Round 5 included one sample only: a sample of all beneficiaries. The PSUs were not drawn within strata, except those defined by the two certainty PSUs. The Round 6 and Round 7 samples used the same PSUs as those sampled in Round 5.
four age-based strata within the PSUs: (1) age 18 to 29, (2) age 30 to 39, (3) age 40 to 49, and (4) age 50 and older.

To reduce data collection costs, we implemented a two-phase sample design for the RBS in Round 7. Our goal was to achieve the same number of completed interviews (4,000) as in past rounds, but with a greater proportion completed by phone instead of in the field. In Phase 1, we reserved a minimum of 12 weeks for cases to work their way through the pre-specified phone interview protocol for each sample release. Next, in Phase 2, we randomly subsampled telephone nonrespondents for field follow-up instead of fielding all of these cases. Because the length of the Phase 1 protocol varied on a case-by-case basis, not all cases were ready for Phase 2 after 12 weeks. By week 15, 27 percent of the total cases that would be selected for Phase 2 were active in Phase 2. By week 25, this increased to 75 percent. By week 35, nearly all Phase 2 selected cases were active in Phase 2. The two-phase approach necessitated increasing the sample size for the RBS compared with prior rounds. Note that, when weighted for the two-phase design, the weighted response rate is the same regardless of what proportion of Phase 1 nonrespondents is subsampled for Phase 2.

2. Cross-sectional SWS

The cross-sectional SWS was limited to SSI and SSDI beneficiaries who were eligible for the RBS, but were considered “successful workers” because their earnings for a sustained period were sufficiently high; details about the criteria used to define successful workers are provided in Section II.B. To ensure a large enough number of successful workers for sampling, we formed seven successive frames of successful workers over time. Each one was revealed by comparing the full sampling frame to updated earnings information and identifying all successful workers at that time, then removing them from subsequent frames to make the frames mutually exclusive. The SWS sampling frames were all subsets of the same sampling frame used for the Round 7 RBS sample, and are therefore referred to as “extracts” from the larger frame. Within each of the seven extracts, we stratified the SWS into two strata defined by beneficiary type (SSDI only, and SSI, which included both SSI only and concurrent beneficiaries) and selected a probability sample from each extract. From these extracts, we fielded a nationally representative sample of 8,590 successful workers. We included one screening question as an additional constraint: the sampled successful workers had to indicate that they had been working at any time in the past six months.

Because of the concerns about the number of successful workers within strata and their distribution across PSUs within each extract, we decided to supplement the main SWS (within the PSUs) with a second independent sample of successful workers. This supplemental sample was divided into two geographic strata (successful workers residing in a sampled PSU, and successful workers not residing in any of the sampled PSUs). We refer to the multistage sample design as the “clustered” sample, and to the second

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13 For reasons explained later in this chapter, this sample includes 395 duplicates. As a result, 8,195 unique cases were sampled.

14 This screening question was included to account for situations where a long period of time had elapsed between the date when the case was released for data collection and the interview date. Few cases were actually removed from the sample due to this screening question, especially in later extracts.

15 Given that the target population for the NBS did not include Puerto Rico or other outlying territories, we excluded from the frame all beneficiaries and successful workers who resided in these areas.
independent sample as the “unclustered” sample. We call the combination of data from the clustered and unclustered samples to calculate estimates a “dual sample” design. The clustered sample included in-person follow-up for sample members who could not be located or otherwise did not respond by phone; the unclustered sample did not have in-person follow-up.

3. Longitudinal SWS

The Round 7 longitudinal sample consists of Round 6 cross-sectional SWS respondents who were working at the time of the Round 6 interview. In the Round 6 survey, we defined successful workers as SSI or SSDI beneficiaries who (1) were active or in suspense status due to work on June 30, 2016; (2) had earnings above SSA’s nonblind SGA earnings level for at least three consecutive calendar months at any time from August 1, 2016, through July 31, 2017; and (3) were younger than 62 on June 30, 2016. (This is the same definition for successful workers that we used in Round 7, except for the dates and SGA earnings levels.) We used an age limit of 62 to ensure that the longitudinal sample cases would be younger than 65 on the date of the Round 7 interview. Of the 4,587 respondents in the Round 6 SWS, 3,712 were eligible for and included in the Round 7 longitudinal SWS.

B. Target population and sampling frames

The target population for the RBS consisted of SSI recipients and SSDI beneficiaries between the ages of 18 and full retirement age who resided in all 50 states and the District of Columbia, excluding outlying territories, and who were in an active pay status as of June 30, 2018. We constructed the sampling frame according to these criteria. As of that date, the sampling frame consisted of approximately 13.7 million beneficiaries; approximately 2.2 million beneficiaries resided in the sampled PSUs and secondary sampling units (SSUs) (described in the next section). The cross-sectional SWS was limited to SSI and SSDI beneficiaries who were eligible for the RBS, but were considered “successful workers” because their earnings for a sustained period were sufficiently high. In particular, the SSI and SSDI beneficiaries were required to (1) have earnings above SSA’s non-blind substantial gainful activity (SGA) monthly earnings level ($1,180 in 2018 and $1,220 in 2019) for a minimum of three consecutive calendar months at any time between August 1, 2018 and July 31, 2019.

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16 Because of the small populations where the dual sample design was required, Mathematica often selected successful workers who resided in the selected PSUs for both the clustered and in-PSU strata of the unclustered samples. Hence, we had to count these duplicate cases in the weighting process (discussed later).

17 “Suspense status due to work” refers to the beneficiaries whose benefits have been temporarily suspended because of work. Those in suspense status for other reasons were not eligible for the sample.

18 This threshold was $1,090 in 2015 and $1,130 in 2016.

19 Active status includes beneficiaries who are currently receiving cash benefits as well as those whose benefits have been temporarily suspended for work or other reasons. Active status does not include beneficiaries whose benefits have been terminated.

20 The sample frame count (13,670,658 cases) includes sampled cases that were found at data collection to be ineligible, either because they had died, were screened out, or were ineligible for other reasons. The weighted estimate of eligible cases was 12,683,610. The count of beneficiaries living in the sampled PSUs and SSUs (2.2 million) excludes those residing in the certainty PSUs but not in selected SSUs.
and (2) be younger than age 62 on June 30, 2018. The successful work must have occurred within a
time frame so that in most cases would be interviewed within six months of the end of their successful
work (if they were not currently working), and their earnings had to have been revealed in the Disability
Control File (DCF) at the time of data extraction—removing from the population any successful workers
who had a long delay in having their earnings recorded on the DCF. To ensure that few people would
be screened out, we needed to define the extracts so that the potential elapsed time period between the
final identified month of the successful work period and the interview date did not exceed six months.
This means that each extract had to be limited to successful workers whose successful work ended late
enough to satisfy this requirement. The data for each successive frame were extracted at (approximately)
six week intervals, to ensure that enough new successful workers could be identified in each new extract.
For the first six of the successive frames, data were extracted on the first Monday or Tuesday after the
following dates: December 1, 2018; January 15, 2019; March 1, 2019; April 15, 2019; June 1, 2019; and
July 15, 2019. Due to the short data collection window available for successful workers in the final
extract, we performed the extraction for the final frame on the Tuesday before September 1, 2019 (August
27). Table II.1 summarizes the earliest acceptable final month of successful work for a successful worker
to be included in each extract. Also included in this table is the first month of ineligibility for those whose
successful work actually ended on the earliest acceptable final month shown. For those who met these
criteria to be included in the extract, sample members were asked in the questionnaire if they had worked
in the past six months. If they answered negatively, they were screened out.

21 We used a 62-year age limit in Round 6 to ensure that longitudinal cases would still be under age 65 at the time of
the Round 7 interview. Although we did not plan to follow the Round 7 cross-sectional successful workers
longitudinally, we maintained the 62-year age limit in the Round 7 cross-sectional sample for the sake of
consistency with Round 6.

22 As per SSA’s specifications, the period between the last month of successful work and the interview date was
limited to six months to avoid issues of recall about the sample member’s successful work period. We say “in most
cases” because it was possible, though unlikely, for the sample member from the first few extracts to have had their
successful work cease more than six months ago, even though the frames were constructed to avoid this. For this to
occur, (1) the interview had to occur long after the case was released for data collection, meaning that this was only
possible in one of the earlier extracts, (2) their successful work did not continue, but ceased long before data
collection, and (3) they did not answer the screening question correctly about whether they worked in the past six
months, or their work in the past six months did not exceed the SGA threshold.

23 Some SSI and SSDI beneficiaries would be considered successful workers because their earnings and age met the
threshold, but they had to be excluded from the target population for the sampling effort due to a delay in recording
their earnings on the DCF. For these individuals, a lag of up to six years would exist between the time that they
received their earnings, and the time that the earnings data were recorded in the DCF, though most had their
earnings recorded after three years. There was no way they could be identified in time for the data extraction. In the
future (within two years after the completion of this document), the DCF earnings data will be revisited, and the
weights will be poststratified to account for the new information that the updated DCF earnings data will provide.
Table II.1. Earliest acceptable final identified month of successful work for each extract, and resulting first month of ineligibility

<table>
<thead>
<tr>
<th>Extract</th>
<th>Earliest acceptable final month of successful work</th>
<th>First month of ineligibility for those with earliest acceptable final month of successful work</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 1, 2018</td>
<td>October, 2018</td>
<td>May, 2019</td>
</tr>
<tr>
<td>January 15, 2019</td>
<td>November, 2018</td>
<td>June, 2019</td>
</tr>
<tr>
<td>March 1, 2019</td>
<td>December, 2018</td>
<td>July, 2019</td>
</tr>
<tr>
<td>April 15, 2019</td>
<td>February, 2019</td>
<td>September, 2019</td>
</tr>
<tr>
<td>June 1, 2019</td>
<td>March, 2019</td>
<td>October, 2019</td>
</tr>
<tr>
<td>July 15, 2019</td>
<td>May, 2019</td>
<td>December, 2019a</td>
</tr>
<tr>
<td>September 1, 2019</td>
<td>June, 2019</td>
<td>January, 2020a</td>
</tr>
</tbody>
</table>

*The first month of ineligibility for the July and September extracts occurs after the end of the data collection period.*

The window of time that a successful worker could be identified for inclusion in an extract, selected for the sample, and have an attempted interview, is illustrated in Figure II.1 for three of the seven extracts. The figure shows the length of time between the successful work and the interview, and how this elapsed time must not exceed six months. The first rectangle corresponds to the first sample extract, which is limited to those whose successful work either ended in October or November in 2018, or continued at the time of the extract creation in early December. It excludes those whose three consecutive months of successful work ended earlier than October, 2018. This is because, for the December extract, we estimated that the successful workers’ interview date could be as late as April 2019. For someone whose successful work ended in September, this would be more than six months of recall. It is possible that the interview date would be sooner than April 2019, in which case we would be excluding someone from the frame whose successful work ended fewer than six months beforehand. By the same token, if the interview was in May, someone whose successful work ended on October 31 would have more than a six-month gap until the interview date (and would be screened out from the screener question in the questionnaire). However, constructing the frames in this way ensures that most will have a gap that is less than six months, and that few cases would be screened out based on the response to the screening question in the questionnaire.

Using these constraints to define the target population for the sample in this round, we created seven sample frames with a total of 101,698 successful workers. However, we believe there are as many as 300,000 individuals who were successful workers, many of which could not be identified in time to be included in the sample frames. After a period of at least two and a half years, we will post-stratify the weights so that the estimates account for these extra individuals.

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24 This total is provisional, and does not include successful workers whose earnings were not included in the DCF at the time of extraction due to a lag in the posting of earnings for some. Furthermore, it will likely include a small number of cases (perhaps 5 percent, based on experience from Round 6) that met the successful work criteria at the time of the initial extraction, but in a later updated extraction, will not meet the criteria during the time period in question. The provisional sample frame count (101,698) includes sampled cases that were found at data collection to be ineligible, either because they had died, were screened out, or were ineligible for other reasons. The weighted estimate of eligible cases was 92,243.
Figure II.1. Timeline for extracts in Successful Worker Sample, including work period, data pull dates, and admissible data collection period for each extract

Note: Solid rectangles identify the “for certain” periods, and gradients represent the decline in certainty over time.

The Round 7 longitudinal sample consists of the Round 6 cross-sectional SWS respondents who indicated that they were working at the time of the Round 6 interview, of which there were 3,712. We do not know what proportion of the 89,636 successful workers in Round 6 were working at the time of the Round 6 interview, but we have an estimate based on our responding sample of 65,871, of which 64,225 were eligible. However, after we processed an updated extract from Round 6, we found that there was a total of 288,576 successful workers, of which 265,514 were eligible. We poststratified the Round 6 weights to this new total; however, we still need to recalculate the longitudinal weights to determine an estimated size of the eligible longitudinal population.  

C. Primary sampling unit formation and selection

We needed to construct and sample PSUs for both surveys that we conducted in the prior NBS rounds (a sample of all beneficiaries, and a sample of participants in the Ticket to Work program), and for both the RBS and cross-sectional SWS in the NBS—General Waves. We constructed them in 2003 prior to the first round using county-level beneficiary counts from data that were available at the time. Based on the design report for the Ticket to Work evaluation (Bethel and Stapleton 2002), the design for the RBS

After we conducted a final extract of Round 6 earnings data in November 2020, we determined that the estimated number of eligible successful workers in Round 6 was actually 265,514; the discrepancy was due to a lag in recording earnings in SSA administrative data for many successful workers. Since it takes three years for this lag to dissipate, we will also need to redo the Round 7 longitudinal weights in 2022 to account for this new total and obtain a new estimate of successful workers who were eligible for the longitudinal population.

25
called for 60 to 100 PSUs to be formed from counties or groups of counties. Because of the size of the beneficiary populations in Los Angeles and Cook Counties and their geographic size, we formed SSUs using beneficiaries’ ZIP codes.

Construction of the PSUs began with county-level counts of beneficiaries in four age strata (18 to 29 years, 30 to 39 years, 40 to 49 years, and 50 years and older). For sampling purposes, we used a size measure (Folsom et al. 1987) that incorporates the count of beneficiaries and the desired sampling rate of beneficiaries in each age stratum. This measure of size, referred to as a composite size measure, presents a “population” for each PSU that is essentially a weighted average of the population sizes within each age group, where the weight is the sampling rate. It permits an equal probability of selection of beneficiaries within each age stratum across PSUs and gives us a sense of the approximate workload in each PSU. To form the PSUs, we used a score based on latitude and longitude to order counties equal within each state by geography. An eligible PSU needed the composite size measure to exceed a specific level to ensure that adequate counts of beneficiaries existed in each of the four age-based sampling strata. We evaluated the PSUs based on geographic size (square miles), topography (lakes, rivers, and mountain ranges), and transportation access among counties in a PSU (roadways in mountainous areas and bridges around the Great Lakes).

In total, we formed 1,330 PSUs with 48 percent (639 PSUs) having a single county and 84 percent (1,113 PSUs) having three or fewer counties. Of the 1,330 PSUs, just 30 (2.3 percent) included 10 or more counties; mostly rural areas in the western U.S. Because the geographical distribution of beneficiaries changed little between 2003 and 2011, we used these same 1,330 PSUs for the NBS—General Waves.

In Round 5, we conducted a new sample selection of PSUs from the set of 1,330, using a composite measure of size calculated from the most recent counts of beneficiaries in the four age strata. We classified two PSUs as certainty selections (Los Angeles County and Cook County). These counties were certainty selections based on the selection frequencies for the PSUs computed using the composite size measure. We allocated the Los Angeles County PSU twice the sample size allocated to the other PSUs due to its population size relative to the other PSUs. To complete the sample of 80 PSUs, we selected 77 PSUs with probability proportional to size (PPS), where the size was defined by the composite size measure, and with minimal replacement using Chromy’s procedure (1979). We controlled the selection of PSUs using the following implicit stratification variables: U. S. Census division, the component states that comprised each Census division, and a beneficiary weighted score (from 0 to 9) based on the 2013 Urban Influence Code (Area Health Resource File [AHRF], 2016-2017).

We formed SSUs in Los Angeles and Cook Counties by using counts of beneficiaries in each stratum for five-digit ZIP codes and the composite size measure. SSUs consisted of one or more ZIP code areas such that the aggregate composite size measure exceeded the criterion value. We formed 62 SSUs in the Los Angeles PSU, and we selected 4 with probability proportional to the composite size measure. In the Chicago PSU, we formed 44 SSUs and selected 2 with probability proportional to the composite size measure. In total, we selected SSA beneficiaries from 83 distinct locations (77 PSUs and 6 SSUs) across the 50 states and the District of Columbia. We selected PSUs and SSUs once for Round 5 sampling activities, then used the same PSUs and SSUs for Rounds 6 and 7. In this situation, the certainty PSU

26 The term “composite” in this setting should not be confused with its use in the context of the composite weights.

27 Los Angeles County includes the city of Los Angeles; Cook County includes the city of Chicago.
effectively becomes a primary sampling stratum and the SSUs within each certainty PSU become the primary sampling units.

D. Strata definitions and sample sizes

We designed the sample to be statistically and operationally efficient and to provide adequate sample sizes for the planned analyses. We used two types of sampling strata for the sample selection in the NBS—explicit strata and implicit strata. Explicit strata are required in cases where oversampling or undersampling are used or in other instances where it is necessary to directly control the size of the sample by certain characteristics. For analysis purposes, the RBS will have three first-stage explicit strata: (1) Cook County certainty PSU, (2) Los Angeles County certainty PSU, and (3) all other beneficiaries. The non-certainty PSUs were all selected from within this third stratum in Round 5. (The clustered SWS has similar first-stage explicit strata, but further subdivides the Cook County and Los Angeles County strata as described below.) Table II.2 shows the explicit sampling strata and sampling units for each sample component. We summarize the actual sample sizes and number of completed interviews for both the RBS and SWS under the revised Round 7 design in Table II.3.

Table II.2. Strata and sampling units for all samples

<table>
<thead>
<tr>
<th>Sample</th>
<th>Certainty PSU</th>
<th>Primary Strata and Substrata</th>
<th>Primary Sampling Units</th>
<th>Secondary Strata</th>
<th>Secondary Sampling Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RBS clustered</td>
<td>Yes</td>
<td>Cook County</td>
<td>ZIP code group</td>
<td>Age group</td>
<td>Beneficiary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LA County</td>
<td>ZIP code group</td>
<td>Age group</td>
<td>Beneficiary</td>
</tr>
<tr>
<td>No</td>
<td>Noncertainty</td>
<td>County or county group</td>
<td>Age group</td>
<td>Beneficiary</td>
<td></td>
</tr>
<tr>
<td>SWS clustered</td>
<td>Yes</td>
<td>Cook County + SSDIonly/SSI + Extract</td>
<td>Beneficiary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LA County + SSDIonly/SSI + Extract</td>
<td>Beneficiary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>Noncertainty</td>
<td>County or county group</td>
<td>SSDIonly/SSI + Extract</td>
<td>Beneficiary</td>
<td></td>
</tr>
<tr>
<td>SWS unclustered</td>
<td>N/A</td>
<td>InPSU/OutPSU + SSDIonly/SSI + Extract</td>
<td>Beneficiary</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: NBS Round 7

RBS. To ensure a sufficient number of persons seeking work in the RBS, we classified the population of SSI and SSDI beneficiaries within PSUs into sampling strata based on age, with persons in the younger age categories selected at higher rates than those in the oldest age category. We made the age groups—18 to 29 years, 30 to 39 years, 40 to 49 years, and 50 years and older—the secondary sampling strata for the RBS. Our goal for the number of completed interviews for Round 7 was 1,111 beneficiaries in each of the three younger age groups (18 to 29 years, 30 to 39 years, and 40 to 49 years), and 667 in the oldest age group (50 years and older).

Clustered cross-sectional SWS. As noted in SWS discussion in Section II.A, we stratified the clustered cross-sectional SWS by beneficiary type (SSDI-only and SSI, the latter of which includes both SSI-only and concurrent beneficiaries) within the extracts (within either the certainty PSUs or the noncertainty
sampled PSUs), and selected a probability sample from each stratum.\textsuperscript{28} As with Round 6, there were 14 (2 x 7 = 14) second-stage (within-PSU) explicit strata in the Round 7 main cross-sectional SWS in the noncertainty PSUs, corresponding to seven extracts crossed with the two beneficiary-type strata. In the certainty PSUs, there are 28 (2 x 2 x 7 = 28) first stage strata, corresponding to the cross-classification of county (Cook and Los Angeles), beneficiary type, and extract.

**Unclustered cross-sectional SWS.** As we also discussed in Section II.A, we supplemented the main (clustered) sample of successful workers with a supplemental (unclustered) sample of successful workers. In addition to the explicit strata defined by beneficiary type (SSDI-only and SSI) within extract, this supplemental sample was divided into two geographic strata (successful workers residing in any of the sampled PSUs and successful workers not residing in any of the sampled PSUs).\textsuperscript{29} The supplemental cross-sectional SWS in Round 7 had only one stage of sample selection, with 28 (2 x 2 x 7 = 28) explicit strata, corresponding to the two beneficiary-type strata crossed with the two geographical strata and the seven extracts.

The goal for the number of completed interviews for both of the two beneficiary type strata (SSDI-only and SSI) was 1,500 interviews across all extracts and certainty and noncertainty PSUs. We provide the actual sample sizes and number of completed interviews for the SWS in Table II.3, but do not distinguish between the clustered and unclustered samples, nor do we distinguish between certainty and noncertainty PSUs.

Implicit strata are variables for which the distribution of sample cases must be controlled but where a strict target number of sampled cases for particular variables is not required. We sort the sampling frame by the implicit stratification variables within explicit strata and select the sample using a sequential selection procedure, so that when the sample selection occurs, the distributions of implicit stratification factors in the sample approximate the distributions in the population within each explicit stratum. Implicit stratification variables are priority ordered, as noted below; the sample will be most proportionally distributed across levels of the first implicit stratification variable listed and least proportionally distributed for the last implicit stratification variable. The following variables will be used for implicit stratification in both the RBS and cross-sectional SWS, in priority order:

1. SSI-only or concurrent (applicable only within the SSI explicit stratum)
2. Disability type (five categories)
3. Race/ethnicity (six categories, including a category for “unknown/other”)
4. Gender
5. Zip code

\textsuperscript{28} We combined the SSI-only and concurrent beneficiaries into a single stratum to ensure a large enough number of beneficiaries for sampling in each extract.

\textsuperscript{29} Given that the target population for the NBS did not include Puerto Rico or other outlying territories, we excluded from the frame all beneficiaries and successful workers who resided in these areas.
<table>
<thead>
<tr>
<th>Sampling strata</th>
<th>Selected sample size</th>
<th>Original target completed interviews&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Actual completed interviews</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RBS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>11,299</td>
<td>4,000</td>
<td>4,008</td>
</tr>
<tr>
<td>18- to 29-year-olds</td>
<td>3,237</td>
<td>1,111</td>
<td>1,127</td>
</tr>
<tr>
<td>30- to 39-year-olds</td>
<td>3,291</td>
<td>1,111</td>
<td>1,059</td>
</tr>
<tr>
<td>40- to 49-year-olds</td>
<td>3,060</td>
<td>1,111</td>
<td>1,181</td>
</tr>
<tr>
<td>50-year-olds or older</td>
<td>1,711</td>
<td>667</td>
<td>704</td>
</tr>
<tr>
<td><strong>Cross-sectional SWS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>8,590</td>
<td>3,000</td>
<td>3,016</td>
</tr>
<tr>
<td>SSDI only</td>
<td>4,221</td>
<td>1,500</td>
<td>1,493</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>4,369</td>
<td>1,500</td>
<td>1,523</td>
</tr>
<tr>
<td>December 2018 extract</td>
<td>1,757</td>
<td>516</td>
<td>714</td>
</tr>
<tr>
<td>SSDI only</td>
<td>833</td>
<td>218</td>
<td>328</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>924</td>
<td>298</td>
<td>386</td>
</tr>
<tr>
<td><strong>2019 extract</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI only</td>
<td>1,438</td>
<td>456</td>
<td>591</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>691</td>
<td>234</td>
<td>286</td>
</tr>
<tr>
<td><strong>March 2019 extract</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI only</td>
<td>1,327</td>
<td>559</td>
<td>446</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>718</td>
<td>293</td>
<td>239</td>
</tr>
<tr>
<td><strong>April 2019 extract</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI only</td>
<td>1,043</td>
<td>394</td>
<td>339</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>498</td>
<td>179</td>
<td>164</td>
</tr>
<tr>
<td><strong>June 2019 extract</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI only</td>
<td>1,450</td>
<td>444</td>
<td>429</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>718</td>
<td>214</td>
<td>213</td>
</tr>
<tr>
<td><strong>July 2019 extract</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI only</td>
<td>998</td>
<td>348</td>
<td>319</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>468</td>
<td>193</td>
<td>161</td>
</tr>
<tr>
<td><strong>September 2019 extract</strong></td>
<td>577</td>
<td>283</td>
<td>178</td>
</tr>
<tr>
<td>SSDI only</td>
<td>530</td>
<td>155</td>
<td>158</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>287</td>
<td>156</td>
<td>101</td>
</tr>
<tr>
<td><strong>Longitudinal SWS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,712</td>
<td>2,040</td>
<td>2,068</td>
</tr>
<tr>
<td>SSDI only</td>
<td>1,863</td>
<td>1,019</td>
<td>1,074</td>
</tr>
<tr>
<td>SSI (SSI only + concurrent)</td>
<td>1,849</td>
<td>1,021</td>
<td>994</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

<sup>a</sup>The target completed interviews for the SWS shown here were calculated prior to receiving the first extract, using historical data from Round 6 (2016-17) and the simulated successful worker populations in 2011-12, 2013-14, and 2015-16. In fact, there were actually seven allocations, with a new sample allocation calculated after the population
sizes for each extract were revealed. This explains the sometimes large deviation between the target allocation and the actual number of completed interviews.

We did not know the size of each extract before sample selection or what the overall proportion will be in the clustered sample or residing in the PSUs for the unclustered sample. The initial sample size allocation to the samples in each extract was based on a combination of Round 6 data and simulated successful worker populations from prior years. The proportion of the sample that was allocated to the clustered and unclustered samples in each extract was designed to minimize bias and cost. After the release of each extract, we adjusted the allocation of sample sizes to the samples from the remaining extracts to make the allocation as proportional as possible to the population of successful workers over time within each of the two beneficiary-type strata (SSDI-only and SSI). We did not complete sample selection until after the release of the last extract.

For fielding purposes in all samples, we selected a larger sample than needed (called the augmented sample) to ensure that an adequate sample pool would be available if we found that the response and eligibility rates during data collection differed from our initial assumptions. Within each stratum, we selected an equal probability sample of beneficiaries by using a sequential selection algorithm with the sampling frame sorted by disability diagnosis, beneficiary title, race and ethnicity, gender, and ZIP code to form the augmented sample. These sorting factors ensured an approximate proportional allocation of the sample across levels of these factors and therefore enhanced the face validity of the sample across these factors.

For the augmented sample in the RBS, we determined the number of sample members selected in each stratum and PSU by independently allocating four times the target sample size across the 83 PSUs for each stratum, thereby ensuring the availability of ample reserve sample units in case response or eligibility rates were lower than expected, and because we expected lower completion rates due to the implementation of the two-phase sample design, as mentioned in Section II.A.1. The augmented sample size for the two youngest age strata (18- to 29-year-olds and 30- to 39-year-olds) was 4,500 sample members, and for the middle age stratum (40- to 49-year-olds) the sample size was 4,400 sample members. The average across these three age groups was roughly four times the target sample size of 1,111. For beneficiaries age 50 and older, the augmented sample size was 2,600 (again, just under four times the target sample size of 667). We excluded from the sample frame any beneficiaries who were deceased as of June 30, 2018. The size of the augmented sample in the RBS, 16,000 (with 11,299 released), was sufficient to ensure approximately 4,000 target completes.

We randomly partitioned the larger augmented sample in the RBS into subsamples (called waves) to allow for the controlled release of the sample throughout the data collection effort. We created 14 waves

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30 Sample size allocation refers to both the target number of completed interviews and the selected sample based on assumed yield rates.

31 We selected an augmented sample that was four times as large as needed in order to allow for both an adequate supplemental sample in all PSUs and sampling strata within the PSUs, as well as to account for expected variation in the response and eligibility rates across PSUs and sampling strata.

32 We assigned the status “ineligible” to any beneficiaries who were found to be deceased, incarcerated, no longer living in the continental United States, or reported had not received benefits in the past five years at the time of the interview, during the data collection period. The proportion of cases found to be ineligible at data collection was small enough that the impact on yield rates was small, and is somewhat smaller than the ineligibility rates from the fourth round of the NBS.
for each stratum and PSU. During the data collection period, we monitored the sample results and determined whether, and in which strata and PSUs, we needed additional waves of sampled cases. Round 7 of the RBS required two releases, of which the first was the largest. After the first release, the number we needed in the subsequent release in each PSU depended on the number of completed interviews we observed from the cases worked in the earlier releases. For all strata and PSUs, the number of cases we released was smaller than the number available in the augmented sample.

In the cross-sectional SWS, we also selected an augmented sample that was larger than needed. However, we did not anticipate that we would be able to process more than one release of data for each extract due to the constrained fielding period for each SWS extract sample, and would therefore not be able to use the reserve sample. As a result, we created an augmented sample that was at most 1.5 times what we thought would be needed in each PSU and stratum in the clustered sample and, for the unclustered sample, within each stratum. We selected an augmented sample of 11,868 successful workers, of which 8,590 were released.

In the longitudinal SWS, all 3,712 eligible cases were released; there was no augmented sample.
III. QUESTIONNAIRE DESIGN

The NBS collects data on a wide range of topics—including, employment, disability, experience with SSA programs, employment services used in the past year, health and functional status, health insurance, income and other assistance, and sociodemographic information. Under a separate contract, Westat developed and initially pre-tested the survey items. Mathematica subsequently made revisions to the survey items to prepare the instrument for CATI/CAPI programming and made minor wording changes in response to pre-testing results. For Round 7, we added 11 new questions to the instrument to capture information on longitudinal sample members’ previous employment. We also added probes to several questions that longitudinal sample members answered in Round 6, and new response options to several “other/specify” questions. Finally, we revised a few questions in order to accommodate changes in reference periods and changes in federal programs. (A detailed description of changes between the Round 6 and Round 7 questionnaire is included in Appendix C.) Prior to the launch of the Round 7 data collection effort, we pretested the survey instrument to confirm the order, flow, and clarity of the revisions. The instrument is available from SSA at https://www.ssa.gov/disabilityresearch/nbs_round_7.html.

To promote responses among Hispanic populations, Mathematica translated the questionnaire into Spanish. Certified bilingual interviewers administered the Spanish interviews. If a Spanish speaker was more familiar with a word or term in English than in Spanish, we provided the term in both languages—allowing interviewers to reinforce the question by using the second language as a probe, if necessary. For example, on Item K11: Did {you/NAME} receive any food stamps last month? Spanish: Recibió {usted/NAME} food stamps o cupones de alimentos el mes pasado? We treated measurements in a similar way. Questions that mentioned a particular weight also mentioned the kilogram equivalent. For languages other than English or Spanish, interpreters, if available in the sample person’s home, helped conduct the interviews. If no one in the household was available to interpret for the respondent, then we flagged the case as a “language barrier.” At the conclusion of Round 7 data collection, we dispositioned 117 cases as language barriers. We elected not to use an interpreter service to help contact and complete these cases, as we did not have a sufficient number in any language that made it cost effective to do so.

A. Summary of modules

The questionnaire includes 13 sections, labeled A through M:

- Section A—Introduction and Screener
- Section B—Disability and Current Work Status
- Section C—Current Employment

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33 For example, on Item K11: Did {you/NAME} receive any food stamps last month? Spanish: Recibió {usted/NAME} food stamps o cupones de alimentos el mes pasado?

34 For example, on Item I35: {Do you/Does NAME} have any difficulty lifting and carrying something as heavy as 10 pounds, such as a full bag of groceries? Spanish: Tiene {usted/NAME} cualquier dificultad en levantar y cargar algo que pesa hasta unas 10 libras (5 kilos), tal como una bolsa llena con compras del mercado?

35 Sections F and H were deleted from the Rounds 5, 6 and 7 survey instrument, as they were focused on the TTW program.
• Section C_B—Employment in Past 6 Months
• Section D—Jobs/Other Jobs During 2018
• Section SC—Benefit Suspense
• Section E—Awareness of SSA Work Incentive Programs
• Section G—Employment-Related Services and Supports Used in 2018
• Section I—Health and Functional Status
• Section J—Health Insurance
• Section K—I ncome and Other Assistance
• Section L—Sociodemographic Information
• Section M—Closing Information and Observations

Descriptions of each section follow.

1. **Section A—Introduction and Screener**

This section confirms that the interviewer has contacted the correct sample person and verifies that the sample person is still eligible for the survey. Ineligible respondents are deceased, incarcerated, not living in the continental United States, are active duty military, or have not received any SSA disability benefits in the last five years. Additionally, cross-sectional SWS respondents who are not currently working and did not work in the last six months are ineligible for the survey. The screener allows interviewers to do the following:

- **Identify any barriers to participation** and, if needed, identify a proxy respondent. The sample member is offered every opportunity to complete the interview himself or herself; a proxy responds only if necessary.

- **Identify the need for an interpreter** for a respondent who speaks a language other than English or Spanish.

- **Administer a cognitive assessment** to ensure that the respondent is capable of completing a complex survey. This assessment includes elements of informed consent for participation; it provides respondents with an overview of the survey and informs them of the voluntary nature of the interview.

We present three statements in the screener: (1) a brief description of what it means that the survey is confidential, (2) what it means that the survey is voluntary, and (3) an overview of the study topics. Then we ask respondents to summarize the concepts in their own words. If a respondent cannot restate a concept, the question is read a second time. If the respondent still cannot restate a concept, we ask if someone else (such as a friend, parent, caseworker, or payee) can answer questions about the respondent’s health, daily activities, and jobs. We then pursue an interview with the proxy respondent, if available. Proxy respondents are administered the same cognitive assessment to ensure that they are capable of completing the complex survey on the sample member’s behalf and also understand the voluntary nature of the survey. To minimize bias in reporting, we do not ask the proxy respondent to provide subjective

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36 The screening of respondents who had not received any SSA benefits in the last five years occurs in Section B of the instrument.
assessments on behalf of the sample person with respect to, for example, satisfaction with jobs or programs. The constructed variable C_Rtype indicates whether the sample person or a proxy completed most of the interview.

2. **Section B—Disability and Current Work Status**

   This section collects information on the beneficiary’s limiting physical or mental conditions and current employment status. We ask about the disability status of the beneficiary by identifying the health condition or conditions that affect the beneficiary’s work or daily activities and the age at which the condition first began limiting the beneficiary’s activities. Then, we ask questions about the beneficiary’s current work status. If a beneficiary is not currently employed, we explore their reasons for not working, the reasons that health prevents work among those so indicating, and the reasons why they have no expectation of working in the near future or expectation of receiving benefits. For all respondents who became limited as an adult (after the age of 18), we ask about the respondent’s ability to perform the same job they performed before they started to receive disability benefits. If a respondent reports that they have not received SSA disability benefits in the last five years, they are determined to be ineligible for the survey. If a cross-sectional SWS respondent reports that they are not currently working and have not worked in the last six months, they are ineligible for the survey. For those longitudinal SWS cases that are not currently working, we ask why they left their last job. We also ask questions to determine the job characteristics that are important to beneficiaries and collect information about work-related goals and expectations.

3. **Section C—Current Employment**

   In this section, we collect detailed information about the beneficiary’s current job. We ask beneficiaries for information about their job, such as job title, the type of work performed, type of employer, hours worked, benefits offered, how they found their job, and wages earned. These questions are asked for each job that the beneficiary currently holds. We also ask questions about the beneficiary’s primary job (if they have more than one job), including questions about work-related accommodations—those received as well as those needed but not received. We ask additional questions to determine if the beneficiary’s employer made changes to the workplaces to help the beneficiary work. We solicit information about job satisfaction. We ask respondents about their motivation for working, the formal and informal supports they use to find or keep a job, the features of their current job that allow them to work with a disability, and the various challenges they face in their current job. We also ask questions that address disability disclosure in the workplace, whether other people with disabilities are employed at the respondent’s place of work, and whether a benefit overpayment affected employment.

4. **Section C_B—Employment in Past 6 Months**

   Questions in this section collect information about employment in the last 6 months, if the respondent is not currently working. We ask beneficiaries for information about all of the jobs they have worked in the last 6 months, including the type of employer; hours worked; benefits offered; how they found their job; wages earned; and the reasons for leaving employment, if applicable. We also ask whether beneficiaries worked or earned less than they could have (and, if so, why) and collect information about their experiences with adjustments to social security benefits due to work. We ask beneficiaries about their motivation for working in the last six months, the formal and informal supports they used to find or keep their main job, the features of their former main job that allowed them to work with a disability, and the various challenges they faced in their former job. We ask questions that address disability disclosure in
the workplace, whether other people with disabilities were employed at the respondent’s main place of work, and whether a benefit overpayment affected employment.

5. **Section D—Jobs/Other Jobs During 2018**

Questions in this section collect information about employment during the 2018 calendar year, excluding jobs noted in Section C or Section C_B. For example, we ask beneficiaries questions about the type of employer; hours worked; wages earned; and the reasons for leaving employment, if applicable. In other questions, we ask whether beneficiaries worked or earned less than they could have (and, if so, why) and collect information about their experiences with adjustments to social security benefits due to work (including if their work activity was affected by a disability overpayment).

6. **Section SC—Benefit Suspense**

This section is asked only of beneficiaries who are currently employed, or who have been employed within the last six months or in 2018. It asks beneficiaries how their work experiences have affected their social security disability benefits. Questions in this section differentiate between three types of beneficiaries: 1) beneficiaries who have not received a suspension of benefits because of employment in the past year, 2) beneficiaries who are no longer receiving social security benefits due to recent employment, and 3) beneficiaries who received a suspension of social security benefits because of employment in the past year, but are now receiving benefits again. If beneficiaries are currently experiencing a suspension of benefits, or did so in the last year, we ask them for more information about the factors that affected their benefit receipt, specifically factors related to health, employment, and personal circumstances.

7. **Section E—Awareness of SSA Work Incentive Programs**

In this section, we ask questions to assess whether the beneficiary is aware of or is participating in SSA work incentive programs and services, including where they obtain information about SSA programs. We inquire if beneficiaries are aware that their SSDI cash benefits cease if their earnings exceed the substantial gainful activity threshold after completing the trial work period. We also ask a question to measure whether sample members are aware that most people who start working and lose their disability benefits are able to keep their health insurance.

8. **Section G—Employment-Related Services and Supports Used in 2018**

Questions in this section ask beneficiaries about their use of employment-related services and supports in calendar year 2018, including employment, job training, medical, therapy or counseling, and educational services. We also ask sample members about their reasons for, and satisfaction with, services and the nature of any services needed but not received.

9. **Section I—Health and Functional Status**

In this section, we ask about the beneficiary’s health status and daily functioning, including the need for special equipment or assistive devices. We ask for information about general health status (via the SF-8™ scale), unmet health needs, informal supports, difficulties with activities of daily living (ADLs) and instrumental activities of daily living (IADLs), functional limitations, substance abuse or dependence, and
treatment for mental health conditions. In addition, we ask about episodic poor health, number of days confined to a bed, informal supports for daily needs, and transportation usage.

10. Section J—Health Insurance

Questions in this section collect information about the beneficiary’s sources of health insurance, both at the time of interview and during calendar year 2018.

11. Section K—Income and Other Assistance

In this section, we ask about sources of income, including income received from earnings, social security, workers’ compensation, and other government programs and sources. Additionally, we ask sample members about their perception of their financial situation and ability to save for an emergency or crisis.

12. Section L—Sociodemographic Information

This section collects basic demographic information about the beneficiary, such as race, ethnicity, education, parental education, veteran status, height and weight, marital status, living arrangements including homeownership and possible plans to relocate, and household income.

13. Section M—Closing Information and Observations

In this section, we collect address information for the sample person so that the $30 gift card may be mailed. The interviewer also records the reasons that a proxy or other assistance was required, if appropriate, and documents special circumstances.

B. Instrument Pathing and Preloaded Data

Interviewers asked all respondents questions from Sections A, B, E, G, I, J, K, L, and M. Only respondents who reported that they were currently working answered the questions in Section C. Similarly, only respondents who reported working in the last six months received Section C_B, and only respondents who reported working in 2018 answered the questions in Section D. RBS and SWS respondents who reported working currently, in the last six months, or in 2018, received Section SC. In Round 7, longitudinal SWS respondents also received Section SC, even if they reported not working currently or in the last six months or in 2018. Table III.1 provides a summary description of the main questionnaire pathing.

37 SF-8™ is a trademark of QualityMetric, Inc.
The NBS–General Waves instrument, which Mathematica programmed in Blaise, is complex and involves several integrated skips within and across sections. The use of preloaded SSA administrative data and allowances for proxy participation introduce further complexities into the questionnaire pathing. Preloaded data on respondents’ disability benefits status (SSI, SSDI, or both) and age at which respondents first received SSI benefits determine pathing for certain survey items. A longitudinal SWS indicator (LongSamp) was used to determine pathing for longitudinal SWS respondents. Longitudinal SWS respondents who reported that they were not currently working, and had not worked in the past six months or in 2018 were asked a new series of questions about the reasons they left their last job. Other administrative variables serve as fills for particular items to provide respondents with names of local programs or to prompt recognition of program participation. Table III.2 provides a list and description of the preloaded variables.
<table>
<thead>
<tr>
<th>Variable</th>
<th>Definition</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bstatus</td>
<td>SSA benefit type (SSI only, SSDI only, or SSI and SSDI) received by sample member</td>
<td>Used to determine pathing for awareness of SSA work incentive items. Only respondents who received SSDI benefits were asked Items E3 through E12. Only respondents who received SSI were asked Items E15 and E17.</td>
</tr>
<tr>
<td>DOB</td>
<td>Sample member date of birth</td>
<td>Reported date of birth (or age) matched with administrative data to verify that the correct person was contacted in the screener portion of the survey.</td>
</tr>
<tr>
<td>SSIage</td>
<td>Age at which sample member first received SSI benefits</td>
<td>Used to determine pathing at Item E12. Only respondents who received SSI before age 22 (and were 25-years-old or younger) were asked this item.</td>
</tr>
<tr>
<td>StateMed</td>
<td>State name for Medicaid, based on state of residence reported at time of survey</td>
<td>Used at Item J2 to identify, by name, the Medicaid program in the respondent’s state.</td>
</tr>
<tr>
<td>VRname</td>
<td>State name for State Vocational Rehabilitation Agency, based on state of residence reported at time of survey</td>
<td>Used at Items B29 and to identify, by name, the State Vocational Rehabilitation Agency in the respondent’s state.</td>
</tr>
<tr>
<td>SampGrp</td>
<td>Sample group (RBS or SWS)</td>
<td>Used to screen cross-sectional SWS respondents who have not worked within the last six months (A73b and B24c) and to collect information on future moves for SWS respondents (M2c).</td>
</tr>
<tr>
<td>LongSamp</td>
<td>Successful Worker Sample, Longitudinal case</td>
<td>Used to determine question pathing for longitudinal sample members. Longitudinal respondents were not screened out of the survey because of their current work status. Instead, longitudinal SWS members who were not working at the time of the interview, did not work in the past six months, and did not work in 2018, were asked questions about the reasons they left their last job (B36c-B36f). Longitudinal SWS respondents were also asked about benefit suspense (Section SC), even if they were not currently working, did not work in the past six months, and did not work in 2018.</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

Given that proxies are needed when the sample member’s disability precludes participation, we programmed the instrument to fill in the proper pronoun or name in the question text after the interviewer indicated that the survey respondent would be either a sample member or a proxy. In addition, the instrument was programmed to skip attitudinal and opinion items for proxy respondents to minimize bias in reporting. (See Table III.3 for a complete list of items not asked of proxy respondents.) As mentioned previously, interviewers completed 1,557 proxy interviews.
<table>
<thead>
<tr>
<th>Survey Item</th>
<th>Question Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>B29_3a</td>
<td>You said that one of the reasons you did not accept a job you were offered was because it did not pay enough. What is the lowest wage or salary you would have accepted for this job?</td>
</tr>
<tr>
<td>B29_3b</td>
<td>If you did get a job offer that matched your current needs and abilities, what is the lowest wage or salary you would be willing to accept for such a job?</td>
</tr>
<tr>
<td>B29_8a</td>
<td>You said that one of the reasons you are unable to find a job is that the jobs that are available do not pay enough. What is the lowest wage or salary you would accept for a job that matched your current needs and abilities?</td>
</tr>
<tr>
<td>B29_8b</td>
<td>If you did get a job offer that matched your needs and abilities, what is the lowest wage or salary you would be willing to accept for such a job?</td>
</tr>
<tr>
<td>B29_8c</td>
<td>How many hours per week would you expect to work for this amount of pay?</td>
</tr>
<tr>
<td>B29_8d</td>
<td>Would you expect to work full-time or part-time?</td>
</tr>
<tr>
<td>B29_12a</td>
<td>If you did get a job offer that matched your current needs and abilities, what is the lowest wage or salary you would be willing to accept for such a job?</td>
</tr>
<tr>
<td>B29_12b</td>
<td>How many hours per week would you expect to work for this amount of pay?</td>
</tr>
<tr>
<td>B29_12c</td>
<td>Would you expect to work full-time or part-time?</td>
</tr>
<tr>
<td>C18</td>
<td>Taking all things into account, how satisfied are you with your {main/current} job? Would you say very satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?</td>
</tr>
<tr>
<td>C39a – C39h</td>
<td>Again, thinking about your {main/current} job, how much do you agree with each of the following statements? Would you say you strongly agree, agree, disagree, or strongly disagree?</td>
</tr>
<tr>
<td>C39a</td>
<td>You had a chance to develop your abilities.</td>
</tr>
<tr>
<td>C39b</td>
<td>You had recognition or respect from others.</td>
</tr>
<tr>
<td>C39c</td>
<td>You could work on your own in your job if you wanted to.</td>
</tr>
<tr>
<td>C39d</td>
<td>You could work with others in a group or team if you wanted to.</td>
</tr>
<tr>
<td>C39e</td>
<td>Your work was interesting or enjoyable.</td>
</tr>
<tr>
<td>C39f</td>
<td>Your work gave you a feeling of accomplishment or contribution.</td>
</tr>
<tr>
<td>C39g</td>
<td>Your supervisor was supportive.</td>
</tr>
<tr>
<td>C39h</td>
<td>Your co-workers were friendly and supportive.</td>
</tr>
<tr>
<td>C_B18</td>
<td>Taking all things into account, how satisfied are you with your {main/current} job? Would you say very satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?</td>
</tr>
<tr>
<td>C_B39a – C_B39h</td>
<td>Again, thinking about the {main} job {you/NAME} had within the past six months, how much do you agree or disagree with each of the following statements? Would you say you strongly agree, agree, disagree, or strongly disagree?</td>
</tr>
<tr>
<td>C39a</td>
<td>You had a chance to develop your abilities.</td>
</tr>
<tr>
<td>C39b</td>
<td>You had recognition or respect from others.</td>
</tr>
<tr>
<td>C39c</td>
<td>You could work on your own in your job if you wanted to.</td>
</tr>
<tr>
<td>C39d</td>
<td>You could work with others in a group or team if you wanted to.</td>
</tr>
<tr>
<td>C39e</td>
<td>Your work was interesting or enjoyable.</td>
</tr>
<tr>
<td>C39f</td>
<td>Your work gave you a feeling of accomplishment or contribution.</td>
</tr>
<tr>
<td>C39g</td>
<td>Your supervisor was supportive.</td>
</tr>
<tr>
<td>C39h</td>
<td>Your co-workers were friendly and supportive.</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.
C. Comparisons with other questionnaires and surveys

The NBS contains a number of questions that are found on other survey instruments. In Table III.4, we list the names of the studies from which NBS questions have been drawn, their sponsors (where relevant), and the NBS question number. In some instances, several studies asked the same question, in which case we list all studies.

<table>
<thead>
<tr>
<th>Study/source</th>
<th>Sponsor</th>
<th>Question numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>A National Study of Health and Activity (NSHA)</td>
<td>Social Security Administration (SSA)</td>
<td>B18, B19, BP1, B25a-j, B47a-d, C6, C8, C9, C11, C20a-i, C33a-f, D14, D16-D19, IP7a-e, IP9, IP9a, IP10, I19, I20, I23, I24, I31, I32, J1, J2, J4-J6, K7, K6a-h</td>
</tr>
<tr>
<td>National Organization on Disability (NOD) Harris Survey of Americans with Disabilities</td>
<td>National Organization on Disability</td>
<td>CP7, CP7a, CP8, KP1, KP2</td>
</tr>
<tr>
<td>National Health Interview Survey (NHIS)</td>
<td>National Center for Health Statistics, Centers for Disease Control and Prevention</td>
<td>IP2, IP5</td>
</tr>
<tr>
<td>National Health and Nutrition Examination Survey (NHANES)</td>
<td>National Center for Health Statistics, Centers for Disease Control and Prevention</td>
<td>IP8a-d</td>
</tr>
<tr>
<td>SF-8™ Health Survey</td>
<td>Optum™</td>
<td>I1-I8</td>
</tr>
<tr>
<td>Employment Intervention Demonstration Program (EIDP)</td>
<td>Center for Mental Health Services, Substance Abuse and Mental Health Services Administration (SAMHSA)</td>
<td>B47a-d</td>
</tr>
<tr>
<td>State Partnership Initiative Participant Employment Data Form</td>
<td>SSA</td>
<td>C20a-i</td>
</tr>
<tr>
<td>Project Network Baseline Survey</td>
<td>SSA</td>
<td>K6a-h, K7</td>
</tr>
<tr>
<td>American Community Survey</td>
<td>Demographic Survey Division, U.S. Census Bureau</td>
<td>I17b, I21, I29, I47, I51, I59, LP23</td>
</tr>
<tr>
<td>Office of Management and Budget (OMB) Standards for Maintaining, Collecting and Presenting Federal Data on Race and Ethnicity</td>
<td></td>
<td>L1-L2</td>
</tr>
</tbody>
</table>

Source: NBS Round 7
D. Special design considerations

The NBS survey population represented a wide range of disabilities with varying degrees of severity; in addition, some sample members had several disabling conditions. While the survey could not be designed to overcome all possible challenges, the instrumentation procedures attempted to address three broad categories of common challenges: communication, stamina, and cognitive barriers. Communication challenges include both hearing and speech impairments. Stamina challenges include physical and mental fatigue. Cognitive challenges include, but are not limited to, emotional disturbance, difficulty processing questions and responses, lack of complete or specific knowledge, and confusion about the purpose of the interview (Mitchell et al. 2004).

The NBS featured several techniques designed to overcome the above challenges. For example, the interviews could be conducted via Telecommunications Relay Service (TRS) or amplifiers so that persons with severe hearing or speech impairments could be interviewed by telephone.

The survey instrument included structured probes that both allowed questions to be rephrased and permitted concepts to be defined in a standard manner in the event that respondents required clarification or additional information. In addition, to minimize item nonresponse, the survey instrument included follow-up questions for continuous variables. For example, if a respondent could not provide an exact amount, a “don’t know” response was followed with a modified version of the question that offered response categories. The upper and lower bounds of each category were based on ranges specified by analysts. In general, we attempted to word survey questions simply, clearly, and briefly as well as in an unbiased manner so that respondents could readily understand key terms and concepts. Given the intent of the questions, we made response categories appropriate, mutually exclusive, and reasonably exhaustive.

During the study introduction, we informed respondents that we could stop the interview and resume it at a later date and/or time if they began to tire, or otherwise felt that they could not continue with the interview. We also trained interviewers to periodically ask respondents about their level of fatigue during the course of the interview. If an interviewer sensed that a respondent was tiring, they asked the respondent if it was okay to continue with the interview or if they needed to complete it in another call. In Round 7, 2,928 sample members (1,260 from the RBS, 1,029 from the cross-sectional SWS, and 639 from longitudinal SWS), or about 12 percent of the total sample, broke off the interview after they had completed the cognitive screener. Of these cases, we completed 1,888 interviews (741 from the RBS, 669 from the cross-sectional SWS, and 478 from longitudinal SWS), or about 64 percent of the total number of “breakoff” cases. For the 1,040 cases (519 from the RBS, 360 from the cross-sectional SWS, and 161 from the longitudinal SWS) that did not complete an interview, approximately 19 percent refused to finish the survey, 10 percent were determined to be ineligible or had a barrier to completing the survey, and 9 percent were ineligible for field locating efforts as they were part of the SWS unclustered sample. The remaining 62 percent did not complete the survey by the end of data collection despite repeated outreach attempts.

E. Changes Made to Survey Instrument in Round 7

Mathematica modified the survey instrument prior to administration in Round 7. In Section 1 below, we describe the questions that we added to the Round 7 instrument. In Section 2, we discuss the modifications that we made to some of the questions from Round 6. No questions were removed between Round 6 and Round 7. A detailed description of the changes between the Round 6 and the Round 7 questionnaire is included in Appendix C.
1. **New Questions Applicable to Longitudinal Sample Members**

For Round 7 survey administration, we added a few questions to account for the longitudinal SWS members who were interviewed in Round 6. Table III.5 summarizes the new questions that we added to the Round 7 instrument.

<table>
<thead>
<tr>
<th>Question Number</th>
<th>Topic Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>B36c, B26c_1, B36c_1_oth, B36d, B36d_1, B36d_1_oth, B36e, B36e_1, B36e_1_oth, B36f, B36f_oth</td>
<td>Reasons longitudinal sample members are no longer working</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

2. **Other Modifications to the Round 7 Survey Instrument**

Mathematica made several minor modifications to the Round 6 NBS instrument for administration in Round 7, including (1) changing reference periods from 2016 to 2018, (2) updating items to reflect changes in SSA programs or policies, (3) improving question wording and adding response categories, and (4) modifying skip logic.

**Changes to the Reference Period.** The NBS Round 7 was administered in 2019. As a result, we updated year references for questions and response categories. For example, in Section D (Jobs/Other Jobs in 2018), we changed the reference year from 2016 to 2018. Similarly, in Section G (Employment-Related Services and Supports in 2018), we changed the reference year from 2016 to 2018. Further, on items asking about the year in which services were last received, we changed the response options from “in 2016” or “before 2016” to “in 2018,” or “before 2018,” respectively.

The change in the reference period also necessitated changes to the upper bound of soft and hard edit checks for certain numeric items. For example, in Section C (Current Employment), we changed the upper bound for the year in which the respondent started his or her current job from 2017 to 2019 because Round 7 was fielded in that year.

**Changes to Reflect Changes in SSA Programs or Policies.** In some instances, we updated items to reflect the 2019 dollar amounts for some SSA work support provisions (e.g., trial work period).

**Changes to Question Wording and Response Categories.** For a few items, we revised the question wording slightly, added interviewer probes, and/or adjusted response categories. We made these changes as a result of (1) the need to incorporate the longitudinal SWS into the Round 7 instrument and (2) lessons learned during Round 6 data processing. We added interviewer probes for the longitudinal SWS respondents that acknowledged that we spoke to them in 2017, that we would like to conduct another interview, and that some questions may sound similar to their 2017 interview. We also modified some of the skip logic to ensure that longitudinal cases were not deemed ineligible for the survey if they had not worked recently. After completing the Round 6 data processing and back-coding tasks, we added new response options to a number of questions in the instrument. Later in this chapter we provide more detail on this process and the new response options are included in Appendix C.
Modifying Skip Logic. During the Round 6 data cleaning effort, we discovered an error in the skip logic affecting item L10 (Do you have a long-term partner who lives in the same household?), which is one of the source variables for the cohabitation status constructed variable, C_COHAB. We corrected the skip logic in the Round 7 survey instrument to ensure that unmarried sample members who are living with their partner (L8=6 and L9=1) were not asked L10, and divorcees (L8=3) were asked L10.
IV. DATA COLLECTION

We executed the NBS-General Waves as a dual-mode survey. Initial attempts to interview respondents used CATI. If Mathematica could not locate and contact a sample member by telephone, we deployed a field locator to make contact in person (for SWS clustered and RBS cases). Once located, the field locator attempted to facilitate an interview with the sample member via CATI, using a Mathematica-provided cell phone to call into the data collection center (or the sample member’s own phone, if preferred). We sought a proxy respondent when a sample member was not able to participate in the survey because of their disability. If a sample member could not complete the interview by telephone in this manner due to their disability, trained field staff were available to conduct the interview in person using CAPI. In Round 7, none of the NBS respondents requested a CAPI interview.

CATI data collection began in February 2019.38 In May 2019, Mathematica began in-person locating and interviewing of telephone nonrespondents, which continued concurrently with CATI interviewing through November 2019. At the end of data collection, Mathematica completed 9,092 cases (including 137 partially completed interviews).39 We deemed an additional 261 beneficiaries from the RBS, 311 beneficiaries from the cross-sectional SWS, and 46 beneficiaries from the longitudinal SWS as ineligible for the survey.40 Of the 9,092 completed cases, 8,823 were administered via CATI. As discussed in Chapter I, because of the independence of the RBS and SWS sample selections and the independence of the clustered and unclustered sample selections within the SWS, individuals could be selected for more than one sample. The remaining 269 completes were from duplicate cases that were interviewed only once.

A. Data collection procedures

1. Advance contacts

To increase respondent trust and rapport before the start of data collection, Mathematica sent all sample members with a valid address an advance letter and a trifold NBS brochure. Printed on SSA letterhead and signed by an SSA official, the advance letter identified SSA as the sponsor of the survey and Mathematica as the survey contractor; explained the purpose of the survey; offered assurances of confidentiality; described the voluntary nature of participation; and included a toll-free number and an e-mail address for respondents so that they could contact Mathematica with questions or to complete the interview at their convenience. To encourage participation and show appreciation for respondents’ participation, Mathematica offered a post-paid incentive payment of $30 to respondents who completed the survey.

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38 We began interviewing approximately eight months after June 30, 2018, the date which we used to define who was a beneficiary. Sample selection occurred in December 2018, two months prior to the beginning of data collection.

39 We considered partial interviews completed if responses were provided through Section G of the interview.

40 We marked as ineligible any beneficiaries who died between the sample selection and the start of data collection, based on information obtained from informants, SSA, or LexisNexis\Accurint prior to the start of data collection. Any beneficiaries we found to be incarcerated, in active military, no longer living in the continental United States, or who reported that they had not received benefits in the past five years at the time of the interview were marked as ineligible during the data collection period. Additionally, for the SWS sample, beneficiaries who reported no work experience in the prior six months were marked as ineligible.
In an effort to help establish the NBS’s legitimacy, SSA posted information about the survey on the agency’s website and circulated information about the survey to SSA field offices and the SSA teleservice (800) center. We sent the field offices and the SSA teleservice (800) center the names of telephone and in-person locators and field interviewers involved in the NBS so that these individuals could be identified as legitimate contacts. If, upon receipt of the advance letter, disability beneficiaries contacted their local field office or called the SSA teleservice number with questions about the survey or its legitimacy, SSA staff could then assure beneficiaries of the study’s legitimacy and encourage them to participate.

2. Interviewer training

CATI interviewers participated in 12 hours of training over two days. The training provided interviewers with the study’s background and purpose, a question-by-question review of the instrument, contact protocols, refusal avoidance strategies, and a series of practice interviews. In addition, sensitivity training emphasized the importance of demonstrating patience, professionalism, and unconditional positive regard for respondents, regardless of impairments. Trainers stressed that the greatest barriers that people with disabilities face are often others’ prejudgments and erroneous images of them. We taught interviewers how to use positive rather than patronizing language and encouraged them to focus on the individual first and the disability last.

To overcome stamina challenges, we trained interviewers to be aware of behaviors that might indicate that a respondent was too fatigued to continue the interview. If a respondent seemed tired, agitated, or distracted, for example, we encouraged interviewers to ask whether the respondent needed to take a break and schedule another time to continue the interview or to set appointments for times when the respondent was most alert. To ensure that interviewers could address cognitive challenges, the training focused on neutral, nondirected probing methods (repeating the question, repeating response categories, asking for more information, stressing generality, stressing subjectivity, and zeroing in) and using active listening skills and patience. We instructed interviewers to provide neutral feedback and encouragement and to help keep the respondent free of distractions, to say the respondent’s name often, and to avoid an exaggerated inflection or tone of voice.

As part of training interviewers on administering the cognitive assessment, we played seven prerecorded mock interactions between an interviewer and a respondent. We asked interviewers to listen to the prerecorded interactions and independently code the outcome. We compared interviewers’ answers to an expert assessment, and then discussed the “correct” and “incorrect” responses with the interviewers.

To ensure understanding of the survey instrument and compliance with the study protocol, we administered a 15-item certification test on the final day of training. The certification assessed the interviewers’ ability to administer the cognitive screener, address respondent concerns (including longitudinal sample-specific concerns), probe for additional information, and demonstrate sensitivity when interviewing sample members with various types of disabilities. Seven items assessed the trainees’ ability to respond adequately to questions and concerns posed by sample members, probe accurately and efficiently, and demonstrate sensitivity and professionalism when interviewing people with disabilities. Eight items required the interviewers to listen to prerecorded mock interactions involving the use of the cognitive screener. Approximately 99 percent of the interviewers passed the certification process. Those who did not certify received additional one-on-one training before they attempted to take the certification test a second time.
3. **Locating**

SSA provided sample members’ contact information drawn from administrative records. Before the mailing of the advance materials, Mathematica verified or updated all addresses using a commercially available database. Over the course of Round 7 data collection, 60 percent of cases required in-house locating; this was consistent with the results of the Rounds 5 and 6 survey administrations. Mathematica used a variety of techniques for locating updated information, including database searches, calling relatives and friends, receiving updated contact information from SSA, and making in-person visits for field locating. Through these efforts, Mathematica eventually located approximately 86 percent of the sample for interviewing or determining ineligibility. Of the located sample cases, 45 percent completed the interview.

Throughout the data collection effort, Mathematica tracked the quality of the contact information provided by SSA. Table IV.1 shows the source of the best address and phone number for sample members at the end of data collection. For example, of the 6,821 unique cases within the cross-sectional samples (i.e., RBS and SWS) that completed an interview, approximately 70 percent had an address that matched at least one of the SSA-provided addresses and 44 percent had a phone number that matched SSA’s records. Table IV.1 also provides information about the source of the best-known contact information for non-completed interviews. It is more challenging to assess the quality of contact information for the sample cases that did not complete an interview, as many sample members were unlocatable or did not confirm their contact information with a Mathematica interviewer or locator.

<table>
<thead>
<tr>
<th>Table IV.1. Contact information source by sample type and completion status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cross-Sectional (RBS and SWS)</strong></td>
</tr>
<tr>
<td>Completes</td>
</tr>
<tr>
<td>Best Address Source</td>
</tr>
<tr>
<td>SSA</td>
</tr>
<tr>
<td>Respondent</td>
</tr>
<tr>
<td>In-House Locating</td>
</tr>
<tr>
<td>Round 6 information</td>
</tr>
<tr>
<td>None identified</td>
</tr>
<tr>
<td>Best Phone Source</td>
</tr>
<tr>
<td>SSA</td>
</tr>
<tr>
<td>Respondent</td>
</tr>
<tr>
<td>In-House Locating</td>
</tr>
<tr>
<td>Round 6 information</td>
</tr>
<tr>
<td>None identified</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: Table excludes duplicate sample cases and totals may not sum to 100% due to rounding.

4. **CATI data collection**

As previously mentioned, Mathematica completed 8,823 unique cases by telephone (including field locator facilitated interviews). Of the completed interviews, 242 (or about three percent of the completed
interviews) were administered in Spanish. On average, the telephone survey took 65 minutes to
administer, with the interview length ranging from 30 minutes to 197 minutes (not including TRS
interviews). As part of Mathematica’s rigorous quality control procedures, at least 10 percent of each
interviewers calls were monitored, in real-time, for quality assurance. Interviewers were given immediate
feedback on their performance and, if necessary, additional training was provided.

**Assistive technologies.** Several technologies were available to assist with telephone interviewing of
sample persons who were deaf or hard of hearing, including telephone amplifying volume controls, and
telephone or video TRS. The average length of a TRS interview was considerably longer than that of a
non–TRS interview. For Round 7 of the NBS, the average time to complete a TRS interview was 112
minutes. The shortest TRS interview lasted about 57 minutes; the longest was 4.5 hours. We completed a
total of 55 interviews via TRS.

5. **In-field locating and CAPI data collection**

In-person survey administration can maximize the number of responses among persons with disabilities
by facilitating interviews of persons with hearing and speech limitations who are unable to participate by
telephone, permitting persons with cognitive challenges to benefit from in-person assistance, and
improving the locating rate through in-field searching (Mitchell et al. 2004). To control costs,
Mathematica first attempted to contact and interview sample persons via telephone and, if needed,
conducted in-field locating to find and contact sample members for an interview (for RBS and SWS
clustered sample cases). In most cases, field locators facilitated interviews by providing a cell phone that
the sample member used to call into the data collection center so that we could conduct the interview by
telephone. A beneficiary could request an in-person interview (using CAPI) but no respondents did so in
Round 7.

Mathematica referred eligible cases to in-field locating if we could not find a telephone number, if we
could not contact the sample member by telephone, or if the sample member resisted telephone attempts
(including refusals and other noncontacts). We sent all of these cases to central office locating first.
Central office locating staff verified or updated, if needed, sample members’ telephone numbers and
addresses and compiled a list of previous addresses before assigning cases to field interviewers. Once
central office locating staff had exhausted their resources, they sent cases to the field for in-person
locating. In Figure IV.1, we provide a summary of the survey administration process.

We sent 3,778 cases (1,112 from the RBS, 2,634 from the cross-sectional SWS, and 32 from the
longitudinal SWS) to in-person locators. Of the cases assigned to the field, we completed a total of 786
cases (21 percent). Of the field generated completes, 615 (78 percent) were administered via CATI with a
field locator present during the interview, and the remaining 171 (22 percent) were cases in which the
sample member called in to complete the interview on their own without a field locator present. 41

Table IV.2 summarizes the number of cases sent to the field and the total number completed after starting
field locating protocols. The table also provides the breakdown of completes that were conducted with a
field locator present compared to those that were completed by CATI after having been assigned to the
field.

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41 These respondents might have called in as a result of receiving various reminder or locating letters, or other
communications from the field locators.
Table IV.2. Cases sent to In-field locating by sample group

<table>
<thead>
<tr>
<th>Sample Group</th>
<th>Sent to field</th>
<th>Total completed from field efforts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross-sectional, clustered SWS</td>
<td>2,634</td>
<td>479 (18%)</td>
</tr>
<tr>
<td>Completed by CATI with field locator present</td>
<td>367 (77%)</td>
<td></td>
</tr>
<tr>
<td>Completed by CATI without field locator</td>
<td>112 (23%)</td>
<td></td>
</tr>
<tr>
<td>Longitudinal, clustered SWS</td>
<td>32</td>
<td>11 (34%)</td>
</tr>
<tr>
<td>Completed by CATI with field locator present</td>
<td>10 (91%)</td>
<td></td>
</tr>
<tr>
<td>Completed by CATI without field locator</td>
<td>1 (9%)</td>
<td></td>
</tr>
<tr>
<td>RBS</td>
<td>1,112</td>
<td>296 (27%)</td>
</tr>
<tr>
<td>Completed by CATI with field locator present</td>
<td>238 (80%)</td>
<td></td>
</tr>
<tr>
<td>Completed by CATI without field locator</td>
<td>58 (20%)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,778</td>
<td>786 (21%)</td>
</tr>
<tr>
<td>Completed by CATI with field locator present</td>
<td>615 (78%)</td>
<td></td>
</tr>
<tr>
<td>Completed by CATI without field locator</td>
<td>171 (22%)</td>
<td></td>
</tr>
</tbody>
</table>

Of all of the cases that we sent to the field, approximately 99.6 percent were assigned to field interviewers because they could not be located or lacked a telephone number (99.8 percent for the RBS, 99.4 percent for the SWS, and 100 percent from the longitudinal sample). The remaining 0.4 percent were assigned to field staff because they were difficult to contact by telephone or evaded our contact efforts (about 0.3 percent), or initially refused a CATI interview (about 0.1 percent).

To ensure collection of the highest-quality data, Mathematica put in place several Quality Assurance (QA) procedures. First, we reviewed completed interviews throughout the data collection effort for the frequency of item nonresponse and other data problems. Using such information, we provided feedback and additional instruction to interviewers as needed. To ensure field staff were following the study protocols, we randomly selected 10 percent of each field locator’s cases and verified them by either telephone or mail. During verification, we asked respondents several questions about the length of the interview, whether or not the interviewer offered their cell phone to call into our survey center, and some other identity validation questions. In addition, we reviewed field locator rates, dates, and times of completion, as well as the geolocation tags from the locators’ smartphones to check for possible data falsification and other problems.
Figure IV.1. Summary of the survey administration process

42 SWS sample includes both cross-sectional and longitudinal cases.
6. Assisted interviews and proxy respondents

To increase opportunities for self-response, we permitted assisted interviews, which differed from proxy interviews in that beneficiaries answered most questions themselves. The assistant, typically a family member, provided encouragement, interpretation, and verified answers as needed. Assisted interviews minimized item nonresponse, improved response accuracy, and overcame some limiting conditions (such as difficulties with hearing) and language barriers. In all, we conducted 250 assisted interviews (approximately 3 percent of all completes) during Round 7.

As a last resort, we relied on proxy respondents to complete the survey on behalf of respondents who could not complete the survey themselves (even with assistance) either by telephone or in-person. This included sample persons with severe communication impairments, those with severe physical disabilities that precluded participation (in any mode), and those with mental impairments that might have compromised data quality. We strongly preferred reliance on a beneficiary rather than on a proxy when possible because sample members generally provide more complete and accurate information than do proxy respondents. However, allowing the use of proxies when necessary minimized the risk of nonresponse bias that would have resulted from the exclusion of individuals with severe physical or cognitive impairments.

To identify the need for proxy respondents, we administered a mini-cognitive test designed expressly for the NBS. The test provided interviewers with a tool for determining when to seek a proxy rather than leaving the decision to interviewer discretion or a gatekeeper. The test, which included three questions at the start of the interview, combined the ability to understand the survey topics with elements of informed consent. First, we gave a general description of the survey topics to be covered (their health, daily activities, and any jobs they might have) and asked the respondent to state the topics in his or her own words. Second, we described the voluntary nature of the survey and asked respondents to state, in their own words, what that description meant to them. Third, we described the confidential nature of the respondents’ answers and asked them to state what that description meant. If respondents were unable to restate accurately any description after two attempts, we asked if someone else could answer questions on their behalf.

In some cases, a knowledgeable informant expressed that a proxy would be necessary before we could administer the cognitive screener to the sample person. In these cases, we relied on several guidelines to determine whether a proxy was indeed warranted. These guidelines included using proxies only when the sample member’s physical or mental condition precluded self-response, selecting the most knowledgeable proxy, and ensuring that the proxy answered on behalf of the sampled respondent rather than offering his or her own opinions. We trained interviewers to overcome gatekeepers’ objections, and to give sample members the opportunity to speak for themselves whenever possible. The constructed variable C_Rtype indicates whether the sampled individual or a proxy respondent completed most of the interview.

In Round 7, we completed proxy interviews with 1,113 RBS respondents (approximately 28 percent of all RBS completed interviews), 293 cross-sectional SWS respondents (about 10 percent of all completed cross-sectional SWS interviews), and 151 longitudinal SWS interviews (approximately 7 percent of all completed longitudinal SWS interviews). Table IV.3 summarizes the reasons for proxy response by sample group. For the cross-sectional and longitudinal SWS, the majority of the proxy interviews (61

---

43 Westat designed the test as part of the design of the Ticket-to-Work evaluation; Mathematica modified it after pretesting.
percent and 52 percent, respectively) were due to the sample member not passing the cognitive assessment. However, for the RBS, the majority of the proxy interviews (51 percent) were necessary because a caregiver deemed that the sample member was unable to respond due to an intellectual or physical disability.

Table IV.3. Summary of reasons for proxy interview

<table>
<thead>
<tr>
<th>Reason for Proxy Interview</th>
<th>Representative Beneficiary Sample</th>
<th>Cross-sectional Successful Worker Sample</th>
<th>Longitudinal Successful Worker Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Percent</td>
<td>Count</td>
</tr>
<tr>
<td>Caregiver deemed sample member unable to respond</td>
<td>566</td>
<td>51</td>
<td>85</td>
</tr>
<tr>
<td>Sample member failed the cognitive assessment</td>
<td>400</td>
<td>36</td>
<td>178</td>
</tr>
<tr>
<td>Did not understand the questions or the question-response sequence</td>
<td>76</td>
<td>7</td>
<td>16</td>
</tr>
<tr>
<td>Hospitalized or for other reasons</td>
<td>71</td>
<td>6</td>
<td>14</td>
</tr>
<tr>
<td>Total</td>
<td>1,113</td>
<td>100</td>
<td>293</td>
</tr>
</tbody>
</table>

There were an additional 239 cases (147 from the RBS, 74 from the cross-sectional SWS, and 18 from the longitudinal SWS) in which sample members could not participate in the interview and proxies could not be identified to complete it on their behalf. Of these cases, 177 (74 percent) were situations in which a gatekeeper reported an intellectual disability and could not serve as a proxy. The remaining 62 (26 percent) were cases in which sample members could not participate because they were unable to successfully complete the cognitive screener and could not identify a proxy to complete the interview.

B. Case disposition summaries

In total, Mathematica completed 9,092 interviews across the RBS and SWS (including 137 partially completed interviews)—4,008 from the RBS, 3,016 from the cross-sections SWS, and 2,068 from the longitudinal SWS. An additional 261 beneficiaries from the RBS, 311 from the cross-sectional SWS, and 46 from the longitudinal SWS were deemed ineligible for the survey. In Table IV.4, we summarize the final case disposition for all released cases in the sample by sampling strata.

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44 Ineligible sample members include those who were deceased, incarcerated, in active military, or no longer living in the continental United States and those whose benefit status was pending at the time of the interview. For the SWS, ineligibles also included sample members who had not worked in the past six months at the time of the interview.
Table IV.4. Summary case disposition by sample type and sampling strata

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Complete</th>
<th>Ineligible</th>
<th>Refused</th>
<th>Unlocated</th>
<th>Nonrespondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Un-weighted percent</td>
<td>Weighted percent</td>
<td>Count</td>
<td>Un-weighted percent</td>
</tr>
<tr>
<td><strong>Representative beneficiary sample</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age 18-29</td>
<td>3,237</td>
<td>1,127</td>
<td>34.8</td>
<td>49.0</td>
<td>64</td>
</tr>
<tr>
<td>Age 30-39</td>
<td>3,291</td>
<td>1,059</td>
<td>32.2</td>
<td>47.8</td>
<td>70</td>
</tr>
<tr>
<td>Age 40-49</td>
<td>3,060</td>
<td>1,118</td>
<td>36.5</td>
<td>47.9</td>
<td>70</td>
</tr>
<tr>
<td>Age 50+</td>
<td>1,711</td>
<td>704</td>
<td>41.1</td>
<td>52.3</td>
<td>57</td>
</tr>
<tr>
<td>Total <strong>beneficiary sample</strong></td>
<td>11,299</td>
<td>4,008</td>
<td>35.5</td>
<td>50.8</td>
<td>261</td>
</tr>
<tr>
<td><strong>Cross-sectional successful worker sample</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI Only</td>
<td>4,221</td>
<td>1,493</td>
<td>35.4</td>
<td>36.7</td>
<td>151</td>
</tr>
<tr>
<td>SSI</td>
<td>4,369</td>
<td>1,523</td>
<td>34.9</td>
<td>37.6</td>
<td>160</td>
</tr>
<tr>
<td><strong>Total cross-sectional successful worker sample</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8,590</td>
<td>3,016</td>
<td>35.1</td>
<td>37.2</td>
<td>311</td>
</tr>
<tr>
<td><strong>Longitudinal successful worker sample</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI Only</td>
<td>1,863</td>
<td>1,074</td>
<td>57.7</td>
<td>55.6</td>
<td>18</td>
</tr>
<tr>
<td>SSI</td>
<td>1,849</td>
<td>994</td>
<td>53.8</td>
<td>50.6</td>
<td>28</td>
</tr>
<tr>
<td><strong>Total longitudinal successful worker sample</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,712</td>
<td>2,068</td>
<td>55.7</td>
<td>53.2</td>
<td>46</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The number of completed cases includes 137 partially completed interviews.

*The unweighted percentages in the RBS are not very meaningful due to the implementation of the two-phase sampling procedure.
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V. Variable Construction and Editing

The NBS data files contain several types of variables: unedited and edited questionnaire variables, imputed variables and imputation flags, coded verbatim responses, variables masked for the Public Use File, constructed variables derived from questionnaire variables, weights, survey administration variables, and SSA administrative data. In this chapter, we provide an overview of the types of variables in both the Restricted Access and Public Use data files and variable naming conventions as well as additional details on coded items and select constructed variables.

A. Editing of questionnaire variables

Questionnaire variables are survey items collected directly from the respondent. On the NBS data files, we distinguish these variables by a two-part name with the first part of the variable name representing the section of the questionnaire where the question originates and the second part of the variable name representing the numerical question from the questionnaire (for example, question G11 comes from Section G of the questionnaire and is question 11). Variables on the data file are also preceded by an R7 to identify them as Round 7 variables.

We thoroughly reviewed the NBS data for discrepancies that might have resulted from programming or interviewer errors. We performed the necessary editing to resolve any inconsistencies in skip patterns and to review and resolve some outlier values by recoding either to an appropriate valid value or a value of missing (.D = don’t know). For key variables, we imputed these responses and other missing values. In consultation with SSA and research analysts, we took the general approach of editing only those cases where there appeared to be an obvious data entry or respondent error. As a result, while we devoted substantial time to a meticulous review of individual responses, some suspect values remain in the file.

The “National Beneficiary Survey – General Waves: Round 7 Data Cleaning and Identification of Data Problems Report” (McDonald et al. 2021) provides more information on data problems and the completeness of the survey data set.

B. Imputation of missing values

A case may be missing data for a particular item because of a logical skip (the respondent was ineligible for the item), the respondent refused the item or responded “don’t know,” an interviewer or programming error resulted in a loss of data, or the case was a partial complete and is missing data for some items. Data for cases completed up through G61 were included on the file as partial completes. All subsequent items for these cases were coded as .P if the question was not answered during the interview. In Table V.1, we summarize missing value codes and their description. For selected variables in the file, we imputed missing data due to “don’t know” or refused responses and those items missing because the case was partially completed (.D, .R, and .P).

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45 In general, unedited variables are those which contain the original response to a single questionnaire item.
Table V.1. Missing values and description

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>Logical skip: Respondent not eligible to receive the item</td>
</tr>
<tr>
<td>D</td>
<td>Don’t know: Respondent did not know how to answer the item</td>
</tr>
<tr>
<td>R</td>
<td>Refused: Respondent refused to respond to the item</td>
</tr>
<tr>
<td>P</td>
<td>Partial complete: Data are missing due to partial interview</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

We selected variables for imputation based on their level of missing data and their analytic importance. Imputed variables include those related to race and ethnicity, disability status, current employment, health, income, and personal and household characteristics. In Chapter VII, we provide a complete list of variables selected for imputation and the specific imputation procedures used for each item. Imputed variables share the same name as the original variable but end in an _i. The original non-imputed variables are retained on the Restricted Access File, along with imputation flags indicating that a case was imputed and a description of the method of imputation (Table V.2). Imputation flag variables share the same name as the original variable and end in iflag (for example, BMI_cat_i is the imputed version of the constructed variable C_BMI. BMI_cat_iflag indicates which cases were imputed and the method used for that imputation).

Table V.2. Imputation flag values and description

<table>
<thead>
<tr>
<th>Imputation flag value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No change (self-reported data)</td>
</tr>
<tr>
<td>1</td>
<td>Logical imputation</td>
</tr>
<tr>
<td>2</td>
<td>Administrative data</td>
</tr>
<tr>
<td>3</td>
<td>Hot-deck imputation</td>
</tr>
<tr>
<td>4</td>
<td>Imputed by distributional assumptions</td>
</tr>
<tr>
<td>5</td>
<td>Imputed by specialized procedures specific to Section K</td>
</tr>
<tr>
<td>6</td>
<td>Constructed from imputed variables</td>
</tr>
<tr>
<td>7</td>
<td>Imputed by longitudinal assumptions (prior-round data)</td>
</tr>
<tr>
<td>L</td>
<td>Legitimate missing</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

C. Coding Verbatim Responses

The NBS includes several questions designed to elicit open-ended responses. To make it easier to analyze the data connected with these responses, we grouped the responses and assigned them numeric codes when possible. The methodology used to code each variable depended upon the variable’s content.

1. Coding Open-Ended, “Other/Specify,” and Field-Coded Responses

Three types of questions (described below) in the NBS did not have designated response categories; rather, the responses to the questions were recorded verbatim:
1. **Open-ended questions** have no response options specified. For example, Item G61 asks, “Why {were you/was NAME} unable to get these services?” For these items, interviewers recorded the verbatim response. Using common responses, we developed categories and reviewed them with analysts. The coders then attempted to code the verbatim response into an established category. If the response did not fit into one of the categories, the coders coded it as “other.”

2. “Other/specify” is a response option for questions with a finite number of possible answers that may not necessarily capture all possible responses. For example, Item B29 asks, “Did you do anything else to look for work in the last four weeks that I didn’t mention?” For these questions, respondents were asked to specify an answer to “Anything else?” or “Anyone else?”

3. **Field-coded responses** are answers coded by interviewers into a predefined response category without reading the categories aloud to the respondent. If none of the response options seemed to apply, interviewers selected an “other/specify” category and typed in the response. For example, Item G53 asks “Thinking only about the services {you/NAME} used in 2018, what are the main reasons {you/he/she} decided to use these services?” Interviewers then coded the verbatim response into seven established categories. If the response did not fit into one of the categories, interviewers selected “other.”

During data processing, we examined a portion of all verbatim responses in an attempt to uncover dominant themes for each question. We developed a list of categories and decision rules for coding verbatim responses to open-ended items. We also added supplemental response categories to some field-coded or “other/specify” items to facilitate coding if there were enough such responses and they could not be back-coded into pre-existing categories. (A list of all open-ended items that were assigned additional categories during the coding process appears in Appendix D.) Thus, we categorized verbatim responses for quantitative analyses by coding responses that clustered together (for open-ended and “other/specify” responses) or by back-coding responses into existing response options if appropriate (for field-coded and “other/specify” items). We applied categories that were developed during prior rounds of the NBS. In some cases, we added to the questionnaire categories developed in earlier rounds in order to minimize back-coding.

If, during the coding effort, it became apparent that we needed to change the coding scheme—for example, due to the need to include new categories—we discussed and documented new decision rules. Coders used the Ascribe coding software to apply codes to verbatim responses. The Ascribe program allowed coders to sort and filter verbatim responses in several ways to facilitate the coding effort. We sorted verbatim responses alphabetically by item for coders. Records could also be filtered to show responses that had been reviewed by a supervisor, or to show cases with clarifying notes for a coder. When it was impossible to code a response, when a response was invalid, or when a response could not be coded into a given category, we assigned a two-digit supplemental code to the response (Table V.3). The data files exclude the verbatim responses. (See McDonald et al. 2021 for full details on back-coding procedures.)
Table V.3. Supplemental codes for “other/specify” coding

<table>
<thead>
<tr>
<th>Code</th>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>94</td>
<td>Invalid response</td>
<td>Indicates that this response should not be counted as an “other” response and should be deleted</td>
</tr>
<tr>
<td>95</td>
<td>Refused</td>
<td>Used only if verbatim response indicates that respondent refused to answer the question</td>
</tr>
<tr>
<td>96</td>
<td>Duplicate response</td>
<td>Indicates that the verbatim response already has been selected in a “code all that apply” item</td>
</tr>
<tr>
<td>98</td>
<td>Don’t know</td>
<td>Used only if the verbatim response indicates that the respondent does not know the answer</td>
</tr>
<tr>
<td>99</td>
<td>Not codeable</td>
<td>Indicates that a code cannot be assigned based on the verbatim response</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

2. Health Condition Coding

In Section B of the questionnaire, we asked each respondent to cite the primary and secondary physical or mental conditions that limit the kind or amount of work or daily activities that the he or she performs. Respondents could report main conditions in one of four questions: B2 (primary reason limited), B6 (primary reason eligible for benefits), B12 (primary reason formerly eligible for benefits if not currently eligible), and B15 (primary reason limited when first receiving disability benefits). The main purpose of items B6, B12, and B15 was to collect information on a health condition from people who reported no limiting conditions in Item B2. For example, if respondents reported no limiting conditions, we asked if they were currently receiving Social Security benefits. If they answered “yes,” we asked for the main reason that made them eligible for benefits (Item B6). If respondents said that they were not currently receiving benefits, we asked whether they had received disability benefits in the last five years. If they answered “yes,” we asked for the condition that made them eligible for Social Security benefits (Item B12) or for the reason that first made them eligible if they no longer had that condition (Item B15). Respondents who said that they had not received disability benefits in the last five years were screened out of the survey and coded as ineligible. We assigned a value for the three health condition constructed variables for each response to Items B2, B6, B12, and B15. Although we asked respondents to cite one main condition in Items B2, B6, B12, or B15, many listed more than one. We maintained the additional responses under the primary condition variable and coded them in the order in which they were recorded.

For each item on a main condition, we asked respondents to list any other, or secondary, conditions. For example, in Item B4, we asked respondents who had reported a main condition in Item B2 to list other conditions that limited the kind or amount of work or daily activities they could perform. In Item B8, we asked respondents who had reported the main reason for their eligibility for disability benefits in Item B6 to list other conditions that made them eligible. For respondents who reported that they were not currently receiving benefits but who reported a main condition in Item B12 (the condition that made them eligible to receive disability benefits in the last five years), we asked in Item B14 for other reasons that made them eligible for benefits. For those who reported that their current main condition was not the condition that made them eligible for benefits and who were asked for the main reason for their initial limitation, we also asked if any other conditions had limited them when they started receiving benefits (Item B17).
In prior rounds of data collection, we coded respondents’ verbatim responses by using the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9) five-digit coding scheme. The ICD-9 is a classification of morbidity and mortality information developed in 1950 to index hospital records by disease for data storage and retrieval. A newer version of the coding scheme (ICD-10) was released prior to Round 6 of data collection. Rather than switching to the ICD-10, which included a new layout of the codes and more complex mapping, SSA agreed that we should use a broader, three-digit coding scheme derived from the ICD-9 categories for Round 6 and Round 7. The list of 21 codes used for Rounds 6 and Round 7 is included in Table V.4. The coders, many of whom had medical coding experience, attended a four-hour training session before they started coding; they also attended biweekly check-in meetings with coding supervisors throughout the coding effort. For cases in which the respondent reported several distinct conditions, all conditions were coded (for instance, three distinct conditions would be recorded and coded as B2_1, B2_2, and B2_3). Each code was applied a maximum of one time per question, even in instances where the same medical code could be applied to more than one condition reported within a question. For instance, “bipolar” and “schizophrenia” are distinct conditions that fall under the same medical code (050 – mental disorders). If both conditions were reported within the same response, “bipolar” and “schizophrenia” would receive code 050 one time. If each condition was reported in a separate question (for instance, if the respondent reported “bipolar” at Item B2 and “schizophrenia” at Item B4), both conditions were coded.

Following the health condition coding, we created a series of three constructed variables based on Item B2 in order to collapse the codes into three classes of broad disease groups:

1. Main Condition Body Groups (C_MainConBodyGroup), 18 levels (Table V.5)
2. Main Condition Primary Diagnosis Groups (C_MainConDiagGrpNEW), 16 levels (Table V.6)
3. Main Condition Primary Diagnosis Groups Collapsed (C_MainConColDiagGrp), 5 levels (Table V.8)

Each of these constructed variables are created for every condition listed at B2 (C_MainConDiagGrpNEW_1, C_MainConDiagGrpNEW_2, etc.).

We created a set of separate constructs that use the same three methods to collapse responses provided in Items B4 (other limiting conditions) and B6 (primary reason eligible for benefits) for those currently receiving benefits. The B4 constructs include the prefix “C_SecCon,” as B4 is the secondary condition reported (C_SecConDiagGrpNew, C_SecConColDiagGrp, and C_SecConBodyGroup). The B6 constructs include the prefix with “C_MainReasElig” for the main reason the respondent became eligible for disability benefits.

Lastly, we created another set of three constructs to summarize responses provided across B6, B12, and B15 collectively to determine the main reason for becoming eligible for disability benefits, regardless of current status. These variables are prefixed with “C_ReasBecElig” for reason became eligible. They clarify the eligibility of sample members who indicated in Item B2 that they did not have a disabling condition.

For Rounds 6 and 7, the main condition primary diagnosis groups (C_MainConDiagGrpNEW_1-_6, C_SecConDiagGrpNEW_1-_12, C_ReasBecEligDiagGrpNEW, and C_MainReasEligDiagGrpNEW_1-_4) include “NEW” in the variable names to denote important differences in the Round 6 and 7 construction specifications compared to those used in the prior rounds of the NBS. As previously mentioned, the primary health coding scheme (Table V.4) that we implemented in Rounds 6 and 7 does not allow us to create the categories exactly as they appeared in Rounds 1 through 5. As a result of these
changes, we do not recommend making comparisons between Round 6 or 7 and prior rounds without comparing the construction techniques used in Round 6 and 7 to those used in Rounds 1 through 5. See Table V.7 for a crosswalk between the two coding schemes.

<table>
<thead>
<tr>
<th>Health Condition Code</th>
<th>Label</th>
<th>Description of ICD-9 Codes</th>
<th>Corresponding ICD-9 Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>010</td>
<td>Infectious and parasitic diseases</td>
<td>Borne by a bacterium or parasite and viruses that can be passed from one human to another or from an animal/insect to a human, including tuberculosis, HIV, other viral diseases, and venereal diseases (excluding other and unspecified infectious and parasitic diseases)</td>
<td>001.0–135, 137.0–139.8</td>
</tr>
<tr>
<td>020</td>
<td>Neoplasms</td>
<td>New abnormal growth of tissue (i.e., tumors and cancer), including malignant neoplasms, carcinoma in situ, and neoplasm of uncertain behavior</td>
<td>140.0–239.9</td>
</tr>
<tr>
<td>030</td>
<td>Endocrine/ nutritional disorders</td>
<td>Thyroid disorders, diabetes, abnormal growth disorders, nutritional disorders, and other metabolic and immune disorders</td>
<td>240.0–279.9</td>
</tr>
<tr>
<td>040</td>
<td>Blood/blood-forming diseases</td>
<td>Diseases of blood cells and spleen</td>
<td>280.0–289.9</td>
</tr>
<tr>
<td>050</td>
<td>Mental disorders</td>
<td>Psychoses, neurotic and personality disorders, and other non-psychotic mental disorders. EXCLUDES Intellectual disability (formerly termed mental retardation)</td>
<td>290.0–302.9, 305.00–314.9, 315–316</td>
</tr>
<tr>
<td>051</td>
<td>Intellectual disability</td>
<td>Intellectual disability</td>
<td>317.0–319.9</td>
</tr>
<tr>
<td>060</td>
<td>Diseases of nervous system</td>
<td>Disorders of brain, spinal cord, central nervous system, peripheral nervous system, and senses, including paralytic syndromes</td>
<td>320.0–359.9</td>
</tr>
<tr>
<td>061</td>
<td>Diseases and disorders of the eye and ear</td>
<td>Disorders of eye and ear</td>
<td>360.0–389.9</td>
</tr>
<tr>
<td>070</td>
<td>Diseases of circulatory system</td>
<td>Heart disease; disorders of circulation; and diseases of arteries, veins, and capillaries</td>
<td>390-459.9</td>
</tr>
<tr>
<td>080</td>
<td>Diseases of respiratory system</td>
<td>Disorders of the nasal, sinus, upper respiratory tract, and lungs, including chronic obstructive pulmonary disease</td>
<td>460-519.9</td>
</tr>
<tr>
<td>090</td>
<td>Diseases of digestive system</td>
<td>Diseases of the oral cavity, stomach, esophagus, and duodenum</td>
<td>520.0-579.9</td>
</tr>
<tr>
<td>100</td>
<td>Diseases of genitourinary system</td>
<td>Diseases of the kidneys, urinary system, genital organs, and breasts</td>
<td>580.0-629.9</td>
</tr>
<tr>
<td>110</td>
<td>Complications of pregnancy, child birth, and puerperium</td>
<td>Complications related to pregnancy or delivery and complications of puerperium</td>
<td>630-677</td>
</tr>
<tr>
<td>120</td>
<td>Diseases of skin/subcutaneous tissue</td>
<td>Infections of the skin, inflammatory conditions, and other skin diseases</td>
<td>680.0-709.9</td>
</tr>
<tr>
<td>130</td>
<td>Diseases of musculoskeletal system</td>
<td>Muscle, bone, and joint problems, including arthropathies, rheumatism, osteopathies, and acquired musculoskeletal deformities</td>
<td>710-719, 725-739</td>
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### Table V.4. (continued)

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<th>Health Condition Code</th>
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<th>Corresponding ICD-9 Codes</th>
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<tbody>
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<td>131 Diseases of the musculoskeletal system: back disorders.</td>
<td>intervertebral disc disorders, other disorders of cervical region, and other and unspecified disorders of the back</td>
<td>720-724</td>
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<tr>
<td>140 Congenital anomalies</td>
<td>Problems arising from abnormal fetal development, including birth defects and genetic abnormalities</td>
<td>740.0-759.9</td>
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<tr>
<td>150 Conditions in the perinatal period</td>
<td>Conditions that have origins in birth period, even if disorder emerges later</td>
<td>760.0-779.9</td>
</tr>
<tr>
<td>160 Symptoms, signs, and ill-defined conditions</td>
<td>Ill-defined conditions and symptoms; used when no more specific diagnosis can be made</td>
<td>780.01-799.9</td>
</tr>
<tr>
<td>170 Injury and poisoning</td>
<td>Problems that result from accidents and injuries, including fractures, brain injury, and burns (excluding complications of medical care not elsewhere classified)</td>
<td>800.00–998.9</td>
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<tr>
<td>180 Physical problem, not elsewhere classified</td>
<td>The condition is physical, but no more specific code can be assigned</td>
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<tr>
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<td>The condition has already been coded for the respondent</td>
<td>No ICD-9 codes</td>
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<tr>
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<td>The verbatim does not contain condition or symptom to code</td>
<td>No ICD-9 codes</td>
</tr>
<tr>
<td>98 Don’t know</td>
<td>The respondent reports that he or she does not know the condition</td>
<td>No ICD-9 codes</td>
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<tr>
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<td>A code cannot be assigned based on the verbatim response</td>
<td>No ICD-9 codes</td>
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Source: NBS Rounds 6 and 7
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<th>Code</th>
<th>Label</th>
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<th>Corresponding ICD-9 codes</th>
<th>Corresponding health condition codes</th>
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</thead>
<tbody>
<tr>
<td>00</td>
<td>Other</td>
<td>Other and unspecified infectious and parasitic disease; alcohol dependence syndrome and drug dependence; learning disorders and developmental speech or language disorders; complications of medical care, not elsewhere classified; other problems not elsewhere classified.</td>
<td>136.0-136.9, 303.00-304.90, 315.00-315.39, 999.0-999.9</td>
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<td>01</td>
<td>Infectious and parasitic diseases</td>
<td>Borne by a bacterium or parasite and viruses that can be passed from one human to another or from an animal/insect to a human, including tuberculosis, HIV, other viral diseases, and venereal diseases (excluding other and unspecified infectious and parasitic diseases)</td>
<td>001.0-135, 137.0-139.8</td>
<td>010</td>
</tr>
<tr>
<td>02</td>
<td>Neoplasms</td>
<td>New abnormal growth of tissue, i.e., tumors and cancer, including malignant neoplasms, carcinoma in situ, and neoplasm of uncertain behavior</td>
<td>140.0–239.9</td>
<td>020</td>
</tr>
<tr>
<td>03</td>
<td>Endocrine/nutritional disorders</td>
<td>Thyroid disorders, diabetes, abnormal growth disorders, nutritional disorders, and other metabolic and immunity disorders</td>
<td>240.0–279.9</td>
<td>030</td>
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<tr>
<td>04</td>
<td>Blood/blood-forming</td>
<td>Diseases of blood cells and spleen</td>
<td>280.0–289.9</td>
<td>040</td>
</tr>
<tr>
<td>05</td>
<td>Mental disorders</td>
<td>Psychoses, neurotic and personality disorders, and other non-psychotic mental disorders, including mental retardation (excluding alcohol and drug dependence and learning, developmental, speech, or language disorders)</td>
<td>290.0–302.9, 305.00-314.9, 315.4-319</td>
<td>050, 051</td>
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<td>06</td>
<td>Diseases of nervous system</td>
<td>Disorders of brain, spinal cord, central nervous system, peripheral nervous system, and senses including paralytic syndromes, and disorders of eye and ear</td>
<td>320.0-389.9</td>
<td>060, 061</td>
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<td>07</td>
<td>Diseases of circulatory system</td>
<td>Heart disease, disorders of circulation, and diseases of arteries, veins, and capillaries</td>
<td>390-459.9</td>
<td>070</td>
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<tr>
<td>08</td>
<td>Diseases of respiratory system</td>
<td>Disorders of the nasal, sinus, upper respiratory tract, and lungs including chronic obstructive pulmonary disease</td>
<td>460-519.9</td>
<td>080</td>
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<tr>
<td>09</td>
<td>Diseases of digestive system</td>
<td>Diseases of the oral cavity, stomach, esophagus, and duodenum</td>
<td>520.0-579.9</td>
<td>090</td>
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<td>10</td>
<td>Diseases of genitourinary system</td>
<td>Diseases of the kidneys, urinary system, genital organs, and breasts</td>
<td>580.0-629.9</td>
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<td>Code</td>
<td>Label</td>
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<td>Corresponding health condition codes</td>
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<td>Complications of pregnancy, child birth, and the puerperium</td>
<td>Complications related to pregnancy or delivery, and complications of the puerperium</td>
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<td>Diseases of skin/ subcutaneous tissue</td>
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<td>680.0-709.9</td>
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<td>13</td>
<td>Diseases of musculoskeletal system</td>
<td>Muscle, bone, and joint problems, including arthropathies, dorsopathies, rheumatism, osteopathies, and acquired musculoskeletal deformities</td>
<td>710.0-739.9</td>
<td>130, 131</td>
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<tr>
<td>14</td>
<td>Congenital anomalies</td>
<td>Problems arising from abnormal fetal development, including birth defects and genetic abnormalities</td>
<td>740.0-759.9</td>
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<td>15</td>
<td>Conditions in the perinatal period</td>
<td>Conditions that have origin in birth period even if disorder emerges later</td>
<td>760.0-779.9</td>
<td>150</td>
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<tr>
<td>16</td>
<td>Symptoms, signs, and ill-defined conditions</td>
<td>Ill-defined conditions and symptoms; used when no more specific diagnosis can be made</td>
<td>780.01-799.9</td>
<td>160</td>
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<td>17</td>
<td>Injury and poisoning</td>
<td>Problems that result from accidents and injuries including fractures, brain injury, and burns (excluding complications of medical care not elsewhere classified)</td>
<td>800.00–998.9</td>
<td>170</td>
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<td>Verbatim indicates respondent refused to answer the question.</td>
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Source: NBS Rounds 6 and 7
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<th>Code</th>
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<th>Corresponding ICD-9 Codes</th>
<th>Corresponding health condition codes</th>
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<tbody>
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<td>00</td>
<td>Other, speech impairment, diseases of skin/ subcutaneous tissue</td>
<td>Other and unspecified infectious and parasitic disease; alcohol dependence syndrome and drug dependence; learning disorders and developmental speech or language disorders; complications of pregnancy, childbirth and the puerperium; conditions in the perinatal period; symptoms, signs and ill-defined conditions; Asphasia, voice disturbance, other speech disturbance; infections of the skin, inflammatory conditions, and other skin diseases; complications of medical care, not elsewhere classified; physical problems not elsewhere classified.</td>
<td>136.0-136.9, 303.00-304.93, 315.00-315.39, 630-677, 760.0–779.9, 780.01-784.2, 784.60-799.99, 999.0-999.9, 784.3-784.5 680.0-709.9</td>
<td>110, 120, 150, 160, 180</td>
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<td>Infectious and parasitic diseases, HIV</td>
<td>Borne by a bacterium or parasite and viruses that can be passed from one human to another or from an animal/insect to a human, including tuberculosis, other viral diseases, and venereal diseases (excluding HIV and other and unspecified infectious and parasitic diseases) HIV infection</td>
<td>001.0-041.9, 045.00-135, 137.0-139.8</td>
<td>010</td>
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<tr>
<td>03</td>
<td>Neoplasms</td>
<td>New abnormal growth of tissue, i.e., tumors and cancer, including malignant neoplasms, carcinoma in situ, and neoplasm of uncertain behavior</td>
<td>140.0–239.9</td>
<td>020</td>
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<tr>
<td>04</td>
<td>Endocrine/nutritional disorders</td>
<td>Thyroid disorders, diabetes, abnormal growth disorders, nutritional disorders, and other metabolic and immunity disorders</td>
<td>240.0–279.9</td>
<td>030</td>
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<td>05</td>
<td>Blood/ blood-forming diseases</td>
<td>Diseases of blood cells and spleen</td>
<td>280.0–289.9</td>
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<td>Corresponding health condition codes</td>
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<td>06</td>
<td>Schizophrenia/psychoses, major affective disorders, other mental disorders</td>
<td>Schizophrenic disorders Affective psychoses including major depression and bipolar disorder Organic psychotic conditions, paranoid states, neurotic disorders, personality disorders, and other non-psychotic mental disorders (excluding alcohol and drug dependence and learning/developmental speech or language disorders, schizophrenia, and major affective disorders)</td>
<td>295.00-295.95 296.00-296.99 290.0–294.9, 297.0-302.9, 305.00-314.9, 315.4-316</td>
<td>050</td>
</tr>
<tr>
<td>09</td>
<td>Intellectual disability</td>
<td>Mild intellectual disability and other specified and unspecified intellectual disability</td>
<td>317-319</td>
<td>051</td>
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<tr>
<td>10</td>
<td>Visual impairment, Hearing impairment</td>
<td>Disorders of the eye and adnexa Disorders of the ear and mastoid process</td>
<td>360.00-379.99 380.00-389.9</td>
<td>061</td>
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<tr>
<td>13</td>
<td>Other diseases of nervous system</td>
<td>Disorders of brain, spinal cord, central nervous system, peripheral nervous system, and senses, including paralytic syndromes, excluding disorders of eye and disorders of ear</td>
<td>320.0-359.9</td>
<td>060</td>
</tr>
<tr>
<td>14</td>
<td>Diseases of circulatory system</td>
<td>Heart disease, disorders of circulation, and diseases of arteries, veins, and capillaries</td>
<td>390-459.9</td>
<td>070</td>
</tr>
<tr>
<td>15</td>
<td>Diseases of respiratory system</td>
<td>Disorders of the nasal, sinus, upper respiratory tract, and lungs including chronic obstructive pulmonary disease</td>
<td>460-519.9</td>
<td>080</td>
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<tr>
<td>16</td>
<td>Diseases of digestive system</td>
<td>Diseases of the oral cavity, stomach, esophagus, and duodenum</td>
<td>520.0-579.9</td>
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<td>17</td>
<td>Diseases of genitourinary system</td>
<td>Diseases of the kidneys, urinary system, genital organs, and breasts</td>
<td>580.0-629.9</td>
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<td>19</td>
<td>Diseases of musculoskeletal system</td>
<td>Muscle, bone, and joint problems including arthropathies, dorsopathies, rheumatism, osteopathies, and acquired musculoskeletal deformities</td>
<td>710.0-739.9</td>
<td>130, 131</td>
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<td>Congenital anomalies</td>
<td>Problems arising from abnormal fetal development, including birth defects and genetic abnormalities</td>
<td>740.0-759.9</td>
<td>140</td>
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<td>21</td>
<td>Injury and poisoning</td>
<td>Problems that result from accidents and injuries including fractures, brain injury, and burns (excluding complications of medical care not elsewhere classified)</td>
<td>800.00–998.9</td>
<td>170</td>
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Source: NBS Rounds 6 and 7
### Table V.7. New primary diagnosis groups (C_MAINCONDIAGGRPNEW_1-_6, C_SECCONDIAGGRPNEW_1-_12, C_REASBECELIGDIAGGRPNEW, C_MAINREASELIGDIAGGRPNEW_1-_4) crosswalk with earlier round primary diagnosis groups (C_MAINCONDIAGGRP, C_SECCONDIAGGRP, C_REASBECELIGDIAGGRP, C_MAINREASELIGDIAGGRP)

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<th>Round 5 Code</th>
<th>Round 5 Label</th>
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<td>Other, speech impairment, diseases of skin/ subcutaneous tissue</td>
<td>136.0-136.9, 303.00-304.93, 315.00-315.39, 630-677, 760.0–779.9, 780.01-784.2, 784.60-799.99, 999.0-999.9, 784.3-784.5, 680.0-709.9</td>
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<td>Other</td>
<td>136.0-136.9, 303.00-304.93, 315.00-315.39, 630-677, 760.0–779.9, 780.01-784.2, 784.60-799.99, 999.0-999.9, 784.3-784.5, 680.0-709.9</td>
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<tr>
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<td>Infectious and parasitic diseases, HIV</td>
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<td>Schizophrenia/ psychosis, major affective disorders, other mental disorders</td>
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<td>Diseases of musculoskeletal system</td>
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<td>No ICD-9 codes</td>
</tr>
</tbody>
</table>

Source: NBS Rounds 5, 6 and 7.
<table>
<thead>
<tr>
<th>Code</th>
<th>Label</th>
<th>Description of ICD-9 codes</th>
<th>ICD-9 and two-digit codes</th>
<th>Corresponding health condition codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Other</td>
<td>Infectious and parasitic diseases; neoplasms; endocrine/nutritional disorders; blood/blood-forming diseases; alcohol dependence syndrome and drug dependence; learning disorders and developmental speech or language disorders; disorders of nervous system; disorders of circulatory system; diseases of respiratory system; diseases of digestive system; diseases of genitourinary system; complications of pregnancy, childbirth and the puerperium; diseases of skin/subcutaneous tissue; conditions in the perinatal period; congenital anomalies; symptoms, signs and ill-defined conditions; injury and poisoning; physical problems not elsewhere classified</td>
<td>001.0-139.8, 140.0–239.9, 240.0–279.9, 280.0–289.9, 303.00-304.93, 315.00-315.39, 320.0-359.9, 390-459.9, 460-519.9, 520.0-579.9, 580.0-629.9, 630-677, 680.0-709.9, 740.0-759.9, 760.0–779.9, 780.01-784.2, 784.6-799.99, 800.00–999.9</td>
<td>010, 020, 030, 040, 060, 070, 080, 090, 100, 110, 120, 140, 150, 160, 170, 180</td>
</tr>
<tr>
<td>01</td>
<td>Mental illness</td>
<td>Organic psychotic conditions, paranoid states, other non-organic psychoses, psychoses with origin specific to childhood, neurotic disorders, personality disorders, and other non-psychotic mental disorders (excluding alcohol dependence syndrome and drug dependence; learning disorders and developmental speech or language disorders; and intellectual disability)</td>
<td>290.0-316</td>
<td>050</td>
</tr>
<tr>
<td>02</td>
<td>Intellectual disability</td>
<td>Intellectual disability (formerly mental retardation) unspecified mental retardation</td>
<td>317-319</td>
<td>051</td>
</tr>
<tr>
<td>03</td>
<td>Muscular/skeletal</td>
<td>Muscle, bone, and joint problems including arthropathies, dorsopathies, rheumatism, osteopathies, and acquired musculoskeletal deformities</td>
<td>710.0-739.9</td>
<td>130, 131</td>
</tr>
<tr>
<td>04</td>
<td>Sensory disorders</td>
<td>Visual and hearing disorders</td>
<td>360.00-389.9</td>
<td>061</td>
</tr>
<tr>
<td>95</td>
<td>Refused</td>
<td>Verbatim indicates respondent refused to answer the question.</td>
<td>No ICD-9 codes</td>
<td>95</td>
</tr>
<tr>
<td>96</td>
<td>Duplicate condition reported</td>
<td>The condition has already been coded for the respondent.</td>
<td>No ICD-9 codes</td>
<td>96</td>
</tr>
<tr>
<td>97</td>
<td>No condition reported</td>
<td>The verbatim does not contain symptom or condition to code.</td>
<td>No ICD-9 codes</td>
<td>97</td>
</tr>
<tr>
<td>98</td>
<td>Don’t know</td>
<td>The respondent reports that he/she does not know the condition.</td>
<td>No ICD-9 codes</td>
<td>98</td>
</tr>
<tr>
<td>99</td>
<td>Uncodeable</td>
<td>A code cannot be assigned based on the verbatim response.</td>
<td>No ICD-9 codes</td>
<td>99</td>
</tr>
</tbody>
</table>

Source: NBS Rounds 6 and 7.
3. **Industry and Occupation**

In Section C of the questionnaire, we collected information about a sample member’s current employment. In Section C_B of the questionnaire, we collected information about a sample member’s employment in the last 6 months, if the sample member was not currently working at the time of the interview. In Section D of the questionnaire, we collected information about a sample member’s employment in 2018. For each job, respondents were asked to report their occupation (Items C2, C_B2, and D4) and the type of business or industry (Items C3, C_B3, and D5) in which they were employed. For rounds 1 through 5 of data collection, we used the Bureau of Labor Statistics 2000 Standard Occupational Classification (SOC) to code verbatim responses to these items. For Rounds 6 and 7, we used the Bureau of Labor Statistics 2010 Standard Occupational Classification (SOC) for coding.\(^\text{46}\) The SOC classifies all occupations in the economy, including private, public, and military occupations, in which work is performed for pay or profit. Occupations are classified on the basis of work performed, skills, education, training, and credentials. The sample member’s occupation was assigned one occupation code. The first two digits of the SOC codes classify the occupation to a major group and the third digit to a minor group. For the NBS–General Waves, we assigned three-digit SOC codes to describe the major group that the occupation belonged to and the minor groups within that classification (using the 23 major groups and 96 minor groups). Round 6 and 7 codes applied using the 2010 SOC remain comparable with earlier rounds coded using the 2000 SOC, as all major and minor group codes remained consistent across both coding schemes. We list the three-digit minor groups that are classified within major groups in Appendix E.

For rounds 1 through 5 of the survey, we coded verbatim responses to the industry items according to the 2002 North American Industry Classification System (NAICS). For Rounds 6 and 7, we used the 2017 North American Industry Classification System (NAICS).\(^\text{47}\) The NAICS is an industry classification system that groups establishments into categories on the basis of activities in which those establishments are primarily engaged. It uses a hierarchical coding system to classify all economic activity into 20 industry sectors. For the NBS–General Waves, we coded NAICS industries to three digits with the first two numbers specifying the industry sector and the third specifying the subsector. Rounds 6 and 7 codes applied using the 2017 NAICS remain comparable with earlier rounds that used the 2002 NAICS, as all industry sector and subsector codes remained consistent across both coding schemes. (Appendix F lists the broad industry sectors.) Most federal surveys use both the SOC and NAICS coding schemes, thus providing uniformity and comparability across data sources. Although both classification systems allow coding to high levels of specificity, SSA and Mathematica decided, based on research needs, to limit the coding to three digits.

Mathematica developed supplemental codes for responses to questions about occupation and industry that could not be coded to a three-digit SOC or NAICS code (Table V.9). As we did during the health condition coding effort, we reviewed the first several cases coded by each of the coders. Throughout the coding process, we randomly selected 10 percent of the responses for review. In total, a supervisor reviewed approximately 20 percent of all coded responses, including cases that coders flagged for review because they were either unable to code them or did not know how to code them.

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\(^{47}\) For more information, see North American Industry Classification System, 2017, or [https://www.census.gov/eos/www/naics/index.html](https://www.census.gov/eos/www/naics/index.html)
Table V.9. Supplemental codes for occupation and industry coding

<table>
<thead>
<tr>
<th>Code</th>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>94</td>
<td>Sheltered workshop</td>
<td>The code used if the occupation is in a sheltered workshop and the occupation cannot be coded from verbatim.</td>
</tr>
<tr>
<td>95</td>
<td>Refused</td>
<td>The respondent refuses to give his or her occupation or type of business.</td>
</tr>
<tr>
<td>97</td>
<td>No occupation or industry reported</td>
<td>No valid occupation or industry is reported in the verbatim response.</td>
</tr>
<tr>
<td>98</td>
<td>Don’t know</td>
<td>The respondent reports that he or she does not know the occupation or industry.</td>
</tr>
<tr>
<td>99</td>
<td>Uncodeable</td>
<td>A code cannot be assigned based on the verbatim response.</td>
</tr>
</tbody>
</table>

Source: NBS Rounds 6 and 7

D. Constructed variables

To simplify the data file and assist the user, the NBS-General Waves data file required the creation of 390 constructed variables. We created constructed variables by combining information from two or more other sources of data to create one variable. The data file codebooks include the algorithms and specifications used to create the constructed variables.

Constructed variables are positioned to appear at the end of the section of variables from which they were created. All constructed variables begin with “C_” succeeded by a brief description of what the variable measures. (For example, “C_TotCurWkHours” measures the total weekly hours the respondent currently worked at all of the jobs he or she listed.)

For the NBS-General Waves, the constructed variables fall into several categories as described below. In Appendix G, we list the constructed variable names and their descriptions.

1. Survey administration

The first type of constructed variable includes survey administration and respondent descriptor variables. Included in this set of constructed variables are C_Rtype (indicating whether the interview was completed by the sample member or a proxy respondent), C_IntMode (CAPI or CATI interview), C_Resptype (indicating whether the interview was completed by the sample member only, the sample member with help, or a proxy only), and C_Intage (age at interview). In some cases, constructs were based on sampling variables, for example C_Cohort (sampling cohort). We positioned these constructs at the beginning of the file, prior to the questionnaire sections.

2. Logical zero

To reduce the number of legitimate missing responses originating from survey skip patterns, we constructed logical zero constructs for variables that assess the amount of income the sample member received from a variety of sources in the month prior to interview (based on K3, K7a-K7h, K12, and K15). These constructs included the amount earned from jobs last month (C_LstMnthPay), the amount received from private disability insurance (C_AmtPrivDis), worker’s compensation (C_AmtWorkComp), veteran’s benefits (C_AmtVetBen), public assistance (C_AmtPubAssis), unemployment (C_AmtUnemply), private pension (C_AmtPrivPen), SNAP benefits (C_AmtFoodStamp), other government programs (C_AmtOthGov), other sources on a regular basis (C_AmtOthReg), and from other
sources on a nonregular basis (C_AmtOthNonReg). For example, if the respondent reported they did not receive private disability insurance last month (question K6a), the follow-up question asking how much private disability insurance was received (question K7a) was skipped. During data processing, such .L (logical skip) responses were recoded to $0. Thus, if the sample member reported not receiving private disability insurance the previous month, then the value of C_AmtPrivDis was “$0.” We identified logical zero constructed variables in the codebook user notes. C_AmtOthRegSum sums across all of these regular sources (including SSA administrative records) to create a total.

3. **Duration and amount standardization**

Throughout the NBS questionnaire, respondents had the option of reporting contacts with providers, income, and expenditures in the unit of their choosing—for instance, daily, weekly, or monthly. We designed the NBS questionnaire with the expectation that allowing respondents to select the time frame (ideally, the time frame with which they were most comfortable) would improve data quality. In these situations, the amount and the unit reported by the respondent existed as two distinct variables in the survey data. For example, question C12amt asked for the amount paid on a job and C12hop, how often the amount was paid. To aid the user, we constructed variables to standardize the time frame and produced a single variable (for example, C_MainJobHrPay) in one unit. In Sections C, C_B, and D, we created both hourly pay (C_MainCurJobHrPay, C_Main6MoJobHrPay, C_MainJobHrPay2018) and monthly pay variables (C_MainCurJobMnthPay, C_MainCurJobMnthPayTH, C_Main6MoJobMnthPay, C_Main6MoJobMnthPayTH, C_MainJobMnthPay2018, C_MainJobMnthPayTH2018). We standardized the unit of time for reporting a respondent’s current job (Section C) and job within the last six months (Section C_B) to SSA to a week (C_MainCurJobRepSSA, C_Main6MoJobRepSSA). We standardized household income, as reported in L23Aamt and L23Ahop, to an annual unit (C_HhInc2018). The NBS codebook provides the specifications used to create the variables in the construct specification notes for each variable.

4. **Pathing combinations**

We created other constructs to combine or summarize survey responses when answers could be provided in more than one place. For example, respondents could report current Medicare coverage at J1 when explicitly probed for this type of insurance and at J9 (“What kinds of health insurance coverage do you have?”) if they reported having no current insurance at J1-J5. In this case, we created a construct that checked both J1 and J9 to determine if the respondent indicated Medicare coverage at either item (C_CurMedicare). This type of construct was created for all health insurance variables in Section J. We created similar constructs for the age at which the sample member first became limited (C_DisAge and C_AdultChild_Onset), ever worked for pay (C_EvrWorked), and worked when limited (C_WrkdWhenLim). The constructed variable code included in the codebooks provides the original questionnaire variables used to create each constructed variable.

Finally, we created several constructed variables in Section G to summarize information about providers and services. Respondents reported services received in 2018 that were grouped into categories, then reported the type of place they received the services. To facilitate reporting of services received and types of places across the various questions, we created constructs to flag whether each type of service was received in 2018 (C_UseEmploy2018, C_ServUse2018) and whether services were received from particular types of providers (for example, C_UseSVR2018). We discuss the provider constructs created in Section G in more detail below. Please note that Section G was revised extensively between Rounds 5
and Rounds 6. As a result, we do not recommend making comparisons between Section G constructed variables from Round 6 or 7 to earlier rounds of the NBS.

5. **Scales**

We constructed variables to summarize items that were part of a pre-existing scale, including a total SF-8™ physical and mental score (C_PCS8TOT, C_MCS8TOT), SF-8™ intermediate scores (C_SF8GH, C_SF8RP, C_SF8BP, C_SF8VT, C_SF8SF, C_SF8MH, and C_SF8RE), physical component scores (PCS-8) (C_PCSGH, C_PCSPF, C_PCSRP, C_PCSBP, C_PCSSF, C_PCSMH, and C_PCSRE), mental component scores (MCS-8) (C_MCSGH, C_MCSPF, C_MCSRP, C_MCSBP, C_MCSSF, C_MCSMH, and C_MCSRE), a score on the CAGE alcohol scale (C_CAGEAlcohol), and a drug dependence indicator (C_DrugDep). We created a body mass index (C_BMI) construct based on height and weight.

6. **Other**

We created additional constructs to simplify the analysis of income data (by creating a poverty-level construct), impairments (by creating a series of variables to identify the number of ADL, IADL, physical, emotional, other impairment types), and job information (by collapsing information across jobs).

E. **SSA administrative data**

Mathematica received administrative data from SSA for the purposes of selecting the sample; contacting, locating, and verifying sample members; and to fill information or drive instrument pathing in the survey instrument. Neither the Restricted Access nor the Public Use Files include personally identifying information received from SSA (for example, Social Security number, name, address, telephone number). Key items that were used for the creation of sampling strata and those that were used to dictate pathing in the instrument are included. These variables begin with “OrgSampInfo” to indicate that they are original sample file variables.

Given that the questionnaire did not ask respondents for the SSA benefit amount received last month, we retrieved such information from SSA administrative variables and incorporated it into the monthly income variables (C_AmtOthRegSum, C_TotGovCashBen). We appended to the Public Use File additional administrative variables from the SSA records to enable more comprehensive data analysis. The data retain their original names and are included at the end of the file. All the appended administrative variables added to the data begin with “N_” succeeded by a brief description of what the variable measures.

F. **Public use variables**

We edited some data to ensure the confidentiality of survey respondents for the Public Use File. File editing excluded variables containing information that could potentially be used either directly or indirectly to identify a sample member; we then constructed new variables to mask extreme or rare values and populations. Using SSA’s Disclosure Review Board guidelines, we developed encryption and masking algorithms to maximize the analytic value of the data while maintaining acceptable confidentiality for program participants. We then created variables for the Public Use File to mask identifying questionnaire data. Such constructs end with a PUB and replace the original survey item in the Public Use File. These variables are also included on the Restricted Access File.
1. Variable exclusion

To minimize the likelihood of indirect identification of a sample member, we deleted variables that could identify residents of smaller geographic areas or sample members with rare attributes (outliers). We paid particular attention to variables associated with fewer than 100 sample members distinguished by a given characteristic (small cell sizes). We also simplified the file by dropping variables with little analytic value, including survey administration variables, source variables with corresponding imputed versions, imputation flags, source variables summarized in a constructed variable. In addition, we dropped data elements with quality problems that would reduce the elements’ analytic value. We also dropped SSA administrative data appended to the Restricted Access File; in their place, we masked certain key administrative variables and added them to the file as new constructs. In Appendix H, we list all variables dropped or replaced and the reason for the exclusion; in Appendix B, we list all variables included on and dropped from the Public Use File.

2. Masking and constructing new variables

We assessed the remaining variables for their confidentiality disclosure risk. When survey questions identified relatively rare populations, we constructed a new variable to combine small groups into larger groups. For many variables that posed a potential risk, constructed variables summarizing the information already existed on the file. When constructed variables did not exist, Mathematica prepared masking algorithms that maximized their analytic value while maintaining acceptable confidentiality for the program participants. Masking algorithms included top and bottom coding of continuous variables, rounding, collapsing continuous variables into categories, and combining responses for categorical variables. We assigned these Public Use File constructs the same variable name as the source variable and ended the constructs with PUB to indicate their creation for the Public Use Data File. In Appendix I, we provide a complete list of all variables edited for confidentiality with a brief description of the re-code. We also included descriptions of the specific re-codes and construct specifications for each variable in the codebook.

G. Additional details on selected constructed variables

1. Jobs held in 2018

In Section C (Current Employment), we collected job-related information for each job held at the time of interview. In Section C_B (Employment in the Past Six Months), we collected job-related information for all jobs within the past six months for respondents not currently working. In Section D (Jobs/Other Jobs in 2018), we collected information for any other jobs held in 2018 not already reported in Section C or C_B. Data for each job are represented on the Restricted Access data file with an _n indicating which job the data are in reference to (for example, D6mth_1 indicating month started first job held in 2018, D6mth_2 indicating month started second job held in 2018, and so on). In all three sections, respondents were asked to report first on their main job, that is, the job at which they worked the most hours, and then to subsequently report on other jobs held. To reduce respondent burden, we did not ask respondents to report on any jobs held during 2018 that had previously been mentioned in Section C as current employment or Section C_B as employment within the past six months. Rather, during data processing for all current jobs also held during 2018 (Table V.10), we copied employment data from Section C and Section C_B to Section D. We coded items in Section D with no equivalent in Section C or Section C_B (D8mth, D8yr, and D23) as .L (logical skip).
Table V.10. Job variables in Sections C, C_B and D

<table>
<thead>
<tr>
<th>Variable in C</th>
<th>Variable in C_B</th>
<th>Variable in D</th>
<th>Variable description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2</td>
<td>C_B2</td>
<td>D4</td>
<td>Occupation</td>
</tr>
<tr>
<td>C3</td>
<td>C_B3</td>
<td>D5</td>
<td>Industry</td>
</tr>
<tr>
<td>C4mth, C4yr</td>
<td>C_B4mth, C_B4yr</td>
<td>D6mth, D6yr</td>
<td>Start month and year of job</td>
</tr>
<tr>
<td>No equivalent item</td>
<td>C_B4bmrth, C_B4byr</td>
<td>D8mth, D8yr</td>
<td>Stop month and year of job</td>
</tr>
<tr>
<td>C6</td>
<td>C_B6</td>
<td>D14</td>
<td>Self-employed status</td>
</tr>
<tr>
<td>C7</td>
<td>C_B7</td>
<td>D15</td>
<td>Sheltered workshop status</td>
</tr>
<tr>
<td>C8</td>
<td>C_B8</td>
<td>D16</td>
<td>Hours usually worked per week</td>
</tr>
<tr>
<td>C9</td>
<td>C_B9</td>
<td>D17</td>
<td>Weeks usually worked per year</td>
</tr>
<tr>
<td>C10</td>
<td>C_B10</td>
<td>D18</td>
<td>Paid by the hour</td>
</tr>
<tr>
<td>C11</td>
<td>C_B11</td>
<td>D19</td>
<td>Hourly pay</td>
</tr>
<tr>
<td>C12amt, C12hop</td>
<td>C_B12amt, C_B12hop</td>
<td>D20amt, D20hop</td>
<td>Amount of pre-tax pay</td>
</tr>
<tr>
<td>C13amt, C13hop</td>
<td>C_B13amt, C_B13hop</td>
<td>D21amt, D21hop</td>
<td>Amount of post-tax pay</td>
</tr>
<tr>
<td>No equivalent item</td>
<td>C_BP13a through C_B39</td>
<td>DP1a through DP2</td>
<td>Reasons for stopping work</td>
</tr>
</tbody>
</table>

Source: NBS Round 6 and 7

a. Including current and six-month jobs held in 2018 in Section D

Jobs mentioned in Section C were defined as held in 2018 if C4yr (year started current job) was earlier than or equal to 2018 and the job held in 2018 was held for longer than one month. We copied each applicable job from Section C into the first blank job slot in Section D (for example, copied into D6mth_2 if D6mth_1 already contained data and into D6mth_3 if both D6mth_1 and D6mth_2 already contained data). The variables C_job_from_SecC_1 through C_job_from_SecC_5 are included on the Restricted Access File to indicate which jobs from Section C (by job number) were copied into specific Section D job slots.

Non-current jobs within the last six months in Section C_B were defined as held in 2018 if the job start and end dates overlapped with 2018 by at least one month. We copied each applicable job from Section C_B into the first blank job slot in Section D. For example, if we had to copy Section C_B start month (C_B4mth) into Section D start month (D6mth), but job slots 1 and 2 in Section D (D6mth_1, D6mth_2) already contained data, we then copied them into D6mth_3. The variables C_job_from_SecC_B_1 through C_job_from_SecC_B_5 are included on the Restricted Access File to indicate which jobs from Section C_B (by job number) were copied into specific Section D job slots.

b. Determining main job held in 2018

In addition to copying job data from Section C and Section C_B to Section D, we had to determine which job held in 2018 was the main job. Before including the jobs from Section C or Section C_B, we stored the main job held in 2018 as job 1. Because it was possible that a job reported in Section C or C_B was the respondent’s main job in 2018, we compared hours worked in 2018 on each job with the first job mentioned in Section D once the jobs from Section C and Section C_B were incorporated. We considered as the main 2018 job the job with the greatest number of hours per year (numbers of hours per week
multiplied by number of weeks per year). The variable Main_Job_grid_num identifies the job number of the main job held in 2018 after this analysis.

We used the main 2018 job to create a series of variables ending with _m to represent each job- specific item listed in Table V.10 for the main job held in 2018 (for example D6mth_m and D6yr_m). It is important to note that, in creating the variables ending with _m, we did not delete from the job_1-job_5 variables any information related to the main job. For example, for a case in Section D listing three jobs (after copying relevant jobs from Section C) where the second job is determined to be the main job, both D8_m and D8_2 provide information related to hours worked on this job. Therefore, _m jobs should not be counted as additional jobs. The Public Use File includes only the main job variables (_m) for jobs held in 2018.

For purposes of the constructed variables created in this section, we created separate constructs for each job mentioned (job 1, job 2, and so on). We created additional constructs for the main job (C_MainJob2018SOC, C_MainJob2018NAICS, C_MainJobHrPay2018, C_MainJobMnthPay2018, C_MainJobMnthPayTH2018, and C_MnthsMain2018Job) as identified by the variable Main_Job_grid_num. As stated above, information in the main job constructs is replicated in one of the other job slots on the Restricted Access File and does not represent an additional job.

2. Employment-related services

In Section G, we asked respondents to discuss employment-related services and supports they received in 2018, focusing on five types of services – employment, job training, medical, therapy/counseling, and education.

We substantially modified Section G between Rounds 5 and 6 of the NBS and retained those changes for Round 7. The changes were intended to reduce the administrative complexity of the section, and eliminate questions of limited value in an effort to reduce respondent burden.

For Round 6 and Round 7, we streamlined the instrument by making the following changes:

- We asked only about services received during 2016 (Round 6) or 2018 (Round 7), and not those ever received.
- For each of the five broad service types (employment services, training to learn new skills or to get a new job, medical services to improve the ability to work or live independently, therapy or counseling, and school or classes), we asked whether specific services that fall under the broad headings were received in 2016 (Round 6) or 2018 (Round 7). The specific service questions are now G2 (employment services), G11 (training), G16 (medical services), G20 (therapy/counseling), and G23 (school/classes).

If hours per year could not be calculated because of missing data on either number of hours per week or number of weeks per year, we coded it as missing. If hours per year were missing for all 2018 Section C or C_B jobs, we counted job 1 in Section D as the main job in 2018. If no jobs were listed in Section D and hours per year were missing for all 2018 jobs in Section C or C_B, we counted the first job listed in Section C that was a 2018 job as the main job in 2018 or the first job listed in Section C_B that was a 2018 job as the main job in 2018. If hours per year were missing for job 1 in Section D, we counted the Section C or C_B job with most hours per year as the main 2018 job. If there was no 2018 job from Section C or C_B or hours per year were missing for all Section C or C_B 2018 jobs, we counted job 1 in Section D as the main 2018 job. If hours per year were missing for all 2018 Section C or C_B jobs and from job 1 in Section D, we counted job 1 in Section D as the main job in 2018.
• Rather than recording and enumerating the specific providers from which sample members received services (as was done in Round 5), we asked about the types of providers from which the services were received in a check-all-that-apply format.

• We removed questions about service intensity.

Because of the changes to Section G in the Round 6 and 7 instruments, we needed to re-specify all of the constructed variables that are based on Section G questions. For a more detailed description of changes made to section G between the Round 5 and Round 6 instruments, please see the Round 6 User’s Guide for Restricted and Public Use Data Files (Callahan, et al. 2021).

Given the extensive changes between Section G of the Round 6 and 7 NBS and earlier versions of the NBS, we do not recommend making any comparisons between the 2016 and 2018 Section G variables (or constructed variables) to the earlier rounds of the NBS. We have revised the name of the constructed variables to include “_rev” to indicate the revisions and to discourage such comparisons.
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VI. WEIGHTS

We determined the final analysis weights for the RBS, the cross-sectional SWS, and the longitudinal SWS via a three-step process:

1. Calculate the base weights
   a. Calculate the initial probability weights
   b. Calculate base weights (weights adjusted for two-phase design [RBS] or dual sample design [SWS])
2. Adjust the base weights for two phases of nonresponse (location and cooperation)
3. Trim the weights to reduce the variance and the risk associated with outlier weights, and conduct post-survey calibration using raking to ensure weighted marginal totals match frame totals for selected key variables

The initial probability weights are the inverse of the probability of selection and release; the base weights account for peculiarities of the sample design, including the two-phase sampling for the RBS and the dual sampling design for the cross-sectional SWS. In Section A, we summarize the procedures used to compute and adjust the sampling weights. In Sections B, C, and D, respectively, we describe the procedures for computing the weights for the three samples in more detail.

A. Computing and adjusting the weights: A summary

1. RBS

The sampling weights for any survey are computed from the inverse selection probability that incorporates the stages of sampling in the survey. We selected the RBS in two stages by (1) selecting primary sampling units (PSUs) and (2) selecting the individuals within the PSUs from a current database of beneficiaries. We selected a larger sample than needed, called an augmented sample, to ensure that the number of completed interviews in each stratum-PSU combination were close to the initial targets. Details about the sample design for the RBS are given in Chapter II.

We computed the initial sampling weights for the RBS based on the inverse of the selection probability for the augmented sample. Given that we released only a subset of the augmented sample, we then adjusted the initial sampling weights for the actual number of cases that were released for data collection. The release-adjusted weights were post-stratified to population totals that were obtained from SSA. In this report, these release-adjusted sampling weights are referred to as the base weights.

As indicated in Chapter II, we used a two-phase sampling procedure for the first time in the Round 7 RBS to increase the proportion of cases completed by phone relative to those completed using field efforts. We used data from Round 6 to project the yield rate among cases sent to the field in the first release. Using this assumed yield rate from Round 6, as well as the phone yield rate in the first release of Round 7, we determined what proportion of second-phase eligible cases (phone nonrespondents) should be randomly

49 In the two largest PSUs, we used an intermediate stage for sampling: secondary sampling units (SSUs). For the sake of simplicity, these SSUs are generally equivalent to PSUs in this description.

50 The totals were obtained from a frame file provided by SSA that contained basic demographics for all SSI and SSDI beneficiaries.
selected for the second phase. In the second release, the proportion randomly selected was determined by ensuring that we obtained 4,000 completes. We adjusted the sampling weights of the phone nonrespondents who were selected for the second phase to account for the phone nonrespondents who were not selected to create the final base weights for the RBS.

We then needed to adjust the base weights for nonresponse. A commonly used method for computing weight adjustments is to form classes of sample members with similar characteristics and then use the inverse of the class response rate as the adjustment factor in that class. The adjusted weight is the product of the base weight and the adjustment factor. One would form the “weighting classes” to ensure that there would be sufficient counts in each class to make the adjustment more stable (that is, to ensure smaller variance). The natural extension to the weighting class procedure is to perform logistic regression with the weighting class definitions used as covariates, provided that each level of the model covariates has a sufficient number of sample members to ensure a stable adjustment. The inverse of the propensity score is then the adjustment factor. The logistic regression approach also has the ability to include both continuous and categorical variables; standard statistical tests are available to evaluate the selection of variables for the model. For the nonresponse weight adjustments (at both the location and cooperation stages), we used logistic regression models to estimate the propensity for a sample member to respond, and use the inverse of that score as the adjustment factor. The adjusted weight for each sample case is the product of the base weight and the adjustment factor.

We calculated the adjustment factor in two stages by: (1) estimating a propensity score for locating a sample member and (2) estimating a propensity score for response among these located sample members. In our experience with the NBS, factors associated with the inability to locate a person tend to differ from factors associated with cooperation. The unlocated person generally does not deliberately avoid or otherwise refuse to cooperate. For instance, that person may have chosen not to list their phone number or may frequently move from one address to another, but there is no evidence to suggest that—once located—they would show a specific unwillingness to cooperate with the survey. Located nonrespondents, on the other hand, may deliberately avoid the interviewer or express displeasure or hostility toward surveys in general or toward SSA in particular.

To develop the logistic propensity models for this round, we used as covariates information from the SSA data files as well as geographic information (such as urban or rural region). We obtained much of the geographic information from the Area Health Resource File (2018–2019), a file with county-level information on population, health, and economic-related matters for every county in the United States. By using a liberal level of statistical significance (0.3) in forward and backward stepwise logistic regression models (using the STEPWISE option of the SAS LOGISTIC procedure with weights\(^\text{51}\) normalized to the sample size), we made an initial attempt to reduce the pool of covariates and interactions. We used a higher significance level because each model’s purpose was to improve the estimation of the propensity score, not to identify statistically significant factors related to response. In addition, the information sometimes reflected proxy variables for some underlying variable that was both unknown and unmeasured. We excluded from the pool of variables any covariate or interaction that was clearly unrelated to locating the respondent or to response propensity. We then pooled the variables resulting from the forward and backward procedures as our starting point for the next stage of model fitting.

\(^{51}\) For the location model, this refers to the probability weight. For the cooperation model, this refers to the location-adjusted probability weight.
The next step called for carefully evaluating a series of models by comparing the following measures of predictive ability and goodness of fit: the R-squared statistic, the percentage of concordant and discordant pairs, and the Hosmer-Lemeshow (H-L) goodness-of-fit test. Model-fitting also involved reviewing the statistical significance of the coefficients of the covariates in the model and avoiding any unusually large adjustment factors. In addition, we manipulated the set of variables to avoid data warnings in SUDAAN. We then used the specific covariate values for each located person to estimate the propensity score, and used the inverse of the propensity score to determine the adjustment factor. When computing the adjustment factors, we reviewed their distribution to identify and address any adjustment factors that were outliers (very large or very small relative to other adjustment factors). The location-adjusted weight is the product of the released-adjusted probability weight and the location adjustment. The nonresponse-adjusted weight is the product of the location-adjusted weight and the inverse of the cooperation propensity score, calculated in the same manner as the location propensity score. Given that the stepwise logistic regression procedures in SAS do not fully account for the complex survey design, we developed the final weighted models by using software that does account for the complex sample design (the RLOGIST procedure in SUDAAN and the SURVEYLOGISTIC procedure in SAS).

Once we made the adjustments, we assessed the distribution of the adjusted weights for unusually high values, which could make the survey estimates less precise. We used the design effect attributed to the variation in the sampling weights as a statistical measure to determine both the need for and amount of trimming. The design effect attributed to weighting is a measure of the potential loss in precision caused by the variation in the sampling weights relative to a sample of the same size with equal weights. We also wanted to minimize the extent of trimming to avoid the potential for bias in the survey estimates. Therefore, the decision to trim requires us to balance increasing bias and decreasing variance. Given our use of the two-phase sample, there was potentially a greater advantage for using trimming to ameliorate the expected increase in the unequal weighting effect. For the RBS, we checked the design effect attributable to unequal weighting within the age-related sampling strata and determined that 64 weights required trimming. The maximum design effect due to weighting among all age strata in the RBS occurred in the age 30 to 39 stratum, and in the RBS, the effect was reduced by trimming from 1.98 to 1.91.

The final step is a series of post-stratification adjustments through which the weights sum to known totals obtained from SSA on various dimensions—specifically, gender, age grouping, program title, and five

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52 In Rounds 1 through 5, we also used Akaike’s Information Criterion, or AIC, as a model diagnostic (discussed in Akaike 1974). We obtained the AIC from SAS output of the LOGISTIC procedure, since it is not available in SUDAAN. However, in Rounds 6 and 7, we used the SURVEYLOGISTIC procedure in SAS, which does account for the survey design, and the AIC in these procedures was not helpful as a model diagnostic.

53 SUDAAN data warnings usually included one or more of the following: (1) an indication of a response cell with a zero count; (2) one or more parameters approaching infinity, which may not be readily observable with the parameter estimates themselves; and (3) degrees of freedom for overall contrast that were less than the maximum number of estimable parameters. We tried to avoid all of these warnings, although avoiding the first two was the highest priority. The warnings usually were caused by a response cell with a count that was too small, which required dropping covariates or collapsing categories in covariates.

54 Disability payments were made in the form of SSI or SSDI or both.
categories of annual earnings from the Disability Control Files (DCF) of 2017 and 2018. After post-stratification, we checked the survey weights again to determine whether more trimming was needed. In this round, trimming was not needed after post-stratification in the RBS.

2. Cross-sectional SWS

We defined successful workers in Section II.B as Supplemental Security Income (SSI) or Social Security Disability Insurance (SSDI) beneficiaries who were (1) active or in suspense on June 30, 2018, (2) with earnings above SSA’s non-blind substantial gainful activity (SGA) earnings level for a minimum of three consecutive calendar months at any time between August 1, 2018 and July 31, 2019, and (3) were less than 62 years old on June 30, 2018. The earnings for each successful worker had to have been revealed in the DCF at the time of data extraction—removing from the population eligible for sampling in that extract any successful workers who had a long delay in having their earnings recorded on the DCF.

We computed the initial sampling weights for the SWS (both the clustered and unclustered samples) on the basis of the inverse of the selection probability for the successful worker within each extract. As with the RBS, we computed the weights for the augmented sample and then adjusted them for the number of sample members released into the final sample. (In the case of the SWS, we did not release any additional sample cases after the initial release for each extract.) To calculate the base weights for the SWS, it was necessary for us to create composite weights that combined the sampling weights from the clustered and unclustered components. The procedure for calculating the SWS composite weights is discussed later, in Section C.

We adjusted these base weights for located sample members and then for response among such members. We used logistic propensity models to calculate the location adjustment for all successful workers and the response adjustments for located successful workers. The modeling procedures were similar to those used with the RBS, discussed in Section A.1 of this chapter.

For the sake of efficiency, we combined the seven extract samples into a single sample when calculating the nonresponse adjustments. Within each stratum, we trimmed the weights to ensure that the design

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55 This was an attempt to address small negative bias in annual earnings, which was observed in Rounds 1 through 4. We arrived at the five earnings categories used in Round 5 after a lengthy investigation using both (annual) IRS and (monthly) DCF earnings. Using data from the 2014 sampling frame, we calculated the percentage with positive IRS earnings in 2014 (considered as “working”), as well as the mean and median IRS 2014 earnings, both overall and among those who were working. We compared these values to several sets of poststratified weights, where the post-stratification was based on a variety of earnings categorical variables, each with different cutpoints, some with IRS earnings and some with DCF earnings. We determined that, although the IRS earnings are more accurate than DCF earnings, IRS earnings are only available annually, which raises timing issues, and dilutes the advantage of accuracy. It was also more difficult to use IRS earnings, since they could only be accessed by staff at SSA. We arrived at the cutpoints given above because these cutpoints resulted in a poststratified weights that yielded estimated annual earnings that were closest to the IRS values. The 2013 data were used because of a lag in identifying earnings in the 2014 data, which did not have complete information on the amount of earnings that beneficiaries received in that year. For Round 7, we determined five earnings categories using earnings data from the 2017 and 2018 DCF files.

56 This threshold was $1,170 in 2017 and $1,180 in 2018.

57 This is referring to the creation of weights that combine the unclustered and clustered samples from the SWS. In the next section, we discuss the creation of composite weights that are used to combine the weights from the RBS and SWS. These two sets of composite weights are distinct and should not be confused.
effect was not adversely affected by outlier weights. (In Section C, we provide more detail on the trimming of successful workers’ weights and the design effects attributable to unequal weighting before and after trimming.) We also conducted a single provisional post-stratification across the seven extract samples.\(^{58}\) In this process, we adjusted the weights so that the marginal totals matched the frame totals within subgroups defined by five earnings categories,\(^{59}\) the four age categories, program title,\(^{60}\) and the extract totals. After post-stratification, we checked the survey again to determine the need for more trimming. Even though the Round 7 weights required trimming before post-stratification in the SWS, they required no further trimming after post-stratification.

3. Longitudinal SWS

As indicated in Section II.A.3, the Round 7 longitudinal SWS consisted of follow-up interviews with a subset of the respondents to the Round 6 cross-sectional SWS. We limited the Round 7 longitudinal sample members to those who, in Round 6, responded affirmatively to question B24 (“Are you currently working at a job or business for pay or profit?”). This restriction removes people who had been working within six months of the Round 6 interview but were not working at the time of the Round 6 interview. The nonresponse-adjusted weights for the Round 6 cross-sectional SWS were used as the “initial probability weights” for the Round 7 longitudinal SWS. As with the Round 7 cross-sectional SWS weights that we summarized in Section A.2, we created Round 7 longitudinal SWS base weights by adjusting the initial probability weights to account for the different follow-up rules for the clustered and unclustered samples in Round 7. This is discussed in Section D of this chapter.

When calculating the nonresponse adjustments, we divided the Round 7 longitudinal sample into two groups, depending on whether the sample members were still SSI or SSDI beneficiaries as of June 30, 2018, and were therefore in the Round 7 beneficiary frame. For both groups, we adjusted for location of the sample members and then for cooperation (response to the survey) among such members. For the group in the Round 7 beneficiary frame—constituting the vast majority of longitudinal sample members—we used logistic propensity models to calculate (1) the location adjustment for all successful workers in the longitudinal sample and (2) the cooperation adjustments for located successful workers in the sample who were current beneficiaries. However, for those who were not in the Round 7 beneficiary frame, we calculated the adjustments using simple weighting classes due to the small number of these sample members. We created the final weights by trimming and post-stratifying to marginal totals within strata (as the strata were defined when longitudinal SWS cases were originally selected in Round 6), together across the two groups. As noted in Section II.B, we will need to recalculate the longitudinal weights to accommodate the new population total based upon an updated extract, and the fact that a small proportion of the completed cases from Round 6 actually did not meet the criteria for successful work in this updated extract.

\(^{58}\) We call it provisional because we will conduct another final post-stratification to accommodate successful workers whose earnings took a long while to be uploaded to the DCF.

\(^{59}\) The five earnings categories used for post-stratification in the SWS differed from those used for the RBS. In the RBS, most sample members did not have earnings. However, by definition, nearly everyone in the SWS had earnings in 2017 and 2018, so the categories were reconfigured to accommodate this.

\(^{60}\) Disability payments were made in the form of SSI or SSDI or both.
4. Composite weights for combining the RBS and cross-sectional SWS

Although the successful worker population constitutes a small subset of the beneficiary population, some analyses required a sample with a substantial number of individuals both within and outside the successful worker population. Such a sample simply represents a combination of the cross-sectional successful worker and beneficiary samples, requiring the use of another type of composite weights to account for the combined sample. When conducting analyses representing the beneficiary population, we used the combined sample weights to make estimates comparing successful workers to others within the beneficiary population. We did not create composite weights that combined sample cases from the longitudinal SWS with any other sample: only the weights from the cross-sectional SWS were used for the composite weights for a combined sample. Sample members in the longitudinal sample were selected based on their work activity at Round 6 and so they cannot be meaningfully combined with any of the Round 7 samples.

In Round 1, some analyses required a combination of data from the RBS and the Ticket Participant Sample, similar to the RBS-SWS combined sample described above. To create the composite weights for that combined sample, we used a sophisticated procedure—similar to that used to combine the clustered and unclustered samples in the SWS—in order to minimize the variance of survey estimates. The procedure allowed weights to be applied to observations duplicated across the two samples. However, given that the Ticket participants were such a small fraction of the beneficiary sample frame, we used a simpler alternative method in Rounds 2 through 4.

In Rounds 6 and 7, we used this simpler alternative again when creating RBS-SWS composite weights. We replaced the original RBS weights with a value of zero among the 45 sample members who happened to be successful workers but were not necessarily sampled in the cross-sectional SWS. To ensure representation of the successful worker population, these 45 members of the RBS were represented by the 3,016 members of the SWS who had completed an interview (or had ineligible dispositions after sample selection). The sum of the weights for the 45 successful workers in the RBS is an unbiased estimate of the number of successful workers in the sampling frame. However, given the relatively small number of successful workers in the RBS, the estimate did not equal the known total in the sampling frame. For the combined weight, we zeroed out the weights for the RBS cases that were also in the SWS frame. We then used a poststratification adjustment so that the weights for the 3,016 responding cases in the SWS added up to the total number of people in the successful worker population, and the weights for the 3,963 non-SWS cases (4,008 − 45) in the RBS added up to the total nonsuccessful worker population.

5. Quality assurance

To ensure that the methods used to compute the weights at each step were sound, a senior statistician conducted a final quality assurance check of the weights from the RBS, cross-sectional SWS, longitudinal SWS, and various combinations. For the sake of objectivity, we chose a statistician who was not directly involved in the project.

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61 A complex procedure also combined the clustered and unclustered samples of the SWS (described in Section C of this chapter).
B. Computing weights for the RBS

1. Base sampling weights

a. Initial probability weights

We computed the initial probability weights by using the inverse of the probability of selection. For the RBS, we selected samples independently in each of four age strata in each PSU. We determined the number of sample members selected in each stratum and PSU for the augmented sample by independently allocating four times the target sample size across the 83 PSUs for each stratum, thereby ensuring the availability of ample reserve sample units in case response or eligibility rates were lower than expected.

The augmented sample size for the two youngest age strata (18- to 29-year-olds and 30- to 39-year-olds) was 4,500 sample members, and for the middle age stratum (40- to 49-year-olds) the sample size was 4,400. The average across these three age groups was roughly four times the target sample size of 1,111, with slightly more cases available in the two youngest age groups, given their historically lower response rates. For beneficiaries age 50 and older, the augmented sample size was 2,600 (again, just under four times the target sample size of 667). By using the composite size measure already described, we calculated the initial weights for the full augmented sample of 16,000 sample members by taking the inverse of the augmented sampling rate \((F_j)\) for each stratum. In Table VI.1, we provide the augmented sampling rates and initial weights, as well as the sizes of the population, augmented sample, and released sample.

<table>
<thead>
<tr>
<th>Sampling strata (ages as of June 30, 2018)</th>
<th>Study population</th>
<th>Augmented sample size</th>
<th>Augmented sampling rate ((F_j))</th>
<th>Initial sample weights</th>
<th>Released sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beneficiaries age 18 to 29</td>
<td>1,346,582</td>
<td>4,500</td>
<td>0.003342</td>
<td>292.4</td>
<td>3,237</td>
</tr>
<tr>
<td>Beneficiaries age 30 to 39</td>
<td>1,457,496</td>
<td>4,500</td>
<td>0.003087</td>
<td>323.89</td>
<td>3,291</td>
</tr>
<tr>
<td>Beneficiaries age 40 to 49</td>
<td>2,084,746</td>
<td>4,400</td>
<td>0.002111</td>
<td>473.81</td>
<td>3,060</td>
</tr>
<tr>
<td>Beneficiaries age 50 to FRA</td>
<td>8,781,834</td>
<td>2,600</td>
<td>0.000296</td>
<td>3,377.63</td>
<td>1,711</td>
</tr>
<tr>
<td>Total</td>
<td>13,670,658</td>
<td>16,000</td>
<td></td>
<td>11,299</td>
<td></td>
</tr>
</tbody>
</table>

Source: Study population counts are from SSA administrative CERs and DBADs files, extracted for NBS Round 7. SSA determined the number of complete interviews based upon recommendations from Mathematica. FRA = full retirement age.

As described previously, we randomly partitioned the full sample into subsamples called “waves” that mirrored the characteristics of the full sample. The waves were formed in each of the four sampling strata in the 83 PSUs (a total of 332 combinations of PSUs and sampling strata). At the start of data collection, we assigned a preliminary sample to the data collection effort and then assigned additional waves as needed, based on experience with eligibility and response rates. In Round 7, we released one group of

\[\text{We selected an augmented sample that was four times as large as needed in order to allow for both an adequate supplemental sample in all PSUs and sampling strata within the PSUs and to account for expected variation in the response and eligibility rates across PSUs and sampling strata.}\]
waves after the initial release, for a total of two releases. Within the 332 combinations of PSUs and sampling strata, we adjusted the initial weights to account for the number of waves released to data collection. The final sample size for the RBS totaled 11,299 beneficiaries, as shown in Table VI.1.

b. **Base weights incorporating two-phase sample design**

As described previously, we used a two-phase sample design in the RBS to reduce data collection costs, while maintaining 4,000 completed interviews as we have done in past rounds. We accomplished this by reducing the proportion of completed interviews conducted in the field. Most completed interviews were done in the first phase and were thus conducted by phone, without the need for field follow-up; the second phase involved interviews resulting from field operations.

We defined the first phase of data collection using the typical full set of protocols followed by the central office before we sent a case to the field. According to those protocols, a sample case could be resolved in the first phase if it received a final disposition (such as complete, ineligible, or adamant refusal) without going to the field. Once the protocols for the first phase were exhausted, unresolved cases were eligible for the second phase.

We randomly selected a share of the second-phase eligible cases for further data collection in the field. The decision about how many cases to send to the field was based on a balance between two competing priorities: (1) cost considerations, necessitating fewer cases going to the field, and (2) precision considerations (achieving the targeted number of completed interviews), necessitating more cases going to the field.

Before collecting data, we assigned a random number between 0 and 1 to each sample case; we used this number in the second phase for any cases that could not be resolved in the first phase. For each of the two sample releases, we set a constant between 0 and 1 and compared it to each second-phase-eligible member’s random number to determine whether to send the case to the field. We used data from Round 6 to project the yield rate among cases sent to the field in the first release. Using this yield rate from Round 6, along with the phone yield rate in the first release of Round 7, we determined that 24.4 percent of the phone nonrespondents would be selected for field follow-up in the first release.

If we could not locate and contact a sample member by telephone, we compared their random number to the 0.244 value. For sample members with a random number less than 0.244, we deployed a field locator to make contact in person. Otherwise, we stopped data collection for the case. We used the same procedure for sample members from the second release: the percentage of phone nonrespondents to be randomly selected for field follow-up in this release was 6.0 percent.\(^{63}\)

Of the 11,299 released cases, 5,030 were resolved in the first phase. For most of these (3,701), the resolved case was a completed interview; however, some cases had other dispositions, such as a final ineligible or adamant refusal, which would have rendered field operations unnecessary. The remaining 6,269 cases were eligible for the second phase, but only 1,128 were selected; of those, only 307 were completed interviews. Therefore, the total number of completed interviews was 3,701 + 307 = 4,008, which is the total observed in Table II.3. We weighted up the 1,128 selected second-phase cases to account for all second-phase eligible cases. For the nonselected second-phase cases, we set the base

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\(^{63}\) This small proportion was chosen so that we did not overshoot our desired number of 4,000 completes. However, this created a higher unequal weighting effect than we would have had with a proportion of fielded cases closer to that of the first release.
weights to zero, as they were being represented by the selected cases. Therefore, only 6,158 sample cases 
(5,030 + 1,128) of the original 11,299 had a positive base weight. 64

2. Response rates and nonresponse adjustments to the weights

As in virtually all surveys, we had to adjust the base weights to compensate for sample members who 
could not be located or who, once located, refused to respond. First, we fitted weighted logistic regression 
models where the binary response was whether the sample member could be located. Using variables 
obtained from SSA databases, we selected, through stepwise regression, a pool of covariates from which 
to construct a final location model. The pool included both main effects and interactions. From the pool of 
covariates, we used various measures of goodness of fit and predictive ability to compare candidate 
models while avoiding large adjustments. We repeated the process for interviewed respondents among the 
located sample members and fitted another weighted logistic regression model. The two levels in the 
binary response for this cooperation model were respondent or nonrespondent. For the RBS, a sample 
member was classified as a cooperating respondent if the sample member or the person responding for the 
sample member completed the interview (that is, an eligible respondent) or if the sample member was 
deemed ineligible after sample selection (an ineligible respondent). Ineligible sample members included 
people who were never SSA beneficiaries, were in the military at the time of the survey, were 
incarcerated, had moved outside the United States, or were deceased at the time of the survey. After 
adjusting the sampling weight by taking the product of the base weight, the location adjustment, and the 
cooperation adjustment, we checked the distribution of the adjusted weights within each age category and 
trimmed the weights to remove outliers from the distribution, reallocating the trimmed portion of the 
outlier weights to other weights within the same age category.

Based on the above procedures, the main factors or attributes affecting our ability to locate and interview 
a sample member included (1) the sample member’s personal characteristics (race, ethnicity, gender, and 
age); (2) the identity of the payee with respect to the beneficiary; (3) whether the beneficiary and the 
applicant for benefits lived in the same location; (4) the number of addresses or phone numbers in the 
SSA files for the beneficiary; (5) the program(s) through which the beneficiary received benefits (SSI, 
SSDI, or both); and (6) geographic characteristics, including attributes of the county where the 
beneficiary lived. The following sections detail the steps involved in calculating response rates and 
adjusting weights for nonresponse.

a. Coding of survey dispositions

The Mathematica Sample Management System maintained the status of each sample member during the 
survey, with a final status code assigned after the completion of all locating and interviewing efforts on a 
given sample member or at the conclusion of data collection. For the nonresponse adjustments, we 
classified the final status codes into four categories:

1. Eligible respondents

64 In Rounds 5 and 6, we selected about 8,000 cases to obtain about 4,000 completes. In Round 7, we needed to 
select 11,299 cases to obtain 4,000 completes because we would not pursue many of the second-phase-eligible cases 
in the field, resulting in a lower raw (naive) yield rate. However, because the second-phase completes have larger 
base weight, the weighted response rate is the same regardless of the proportion of second-phase eligible cases 
selected for Phase 2.
2. Ineligible respondents (sample members ineligible after sample selection, including deceased sample members, sample members who were in the military or incarcerated, sample members living outside the United States, and other ineligibles)

3. Located nonrespondents (including active or passive refusals and language barrier situations)$^{65}$

4. Unlocated sample members (sample members who could not be located through either central office tracing procedures or in-field searches)

This classification of the final status code allowed us to measure the location rate among all sample members, the cooperation rate among located sample members, and the overall response rate.

b. Response Rates

The 54.7 percent response rate for the RBS (Table VI.2) is the weighted$^{66}$ count of sample members who completed an interview or were deemed ineligible divided by the weighted sample count of all sample members.$^{67}$ It can be approximated by taking the product of the weighted location rate and the weighted cooperation rate among located sample members.$^{68}$

The weighted location rate is the ratio of the weighted sample count for located sample members to the weighted count of all sample members, which was 93 percent (Table VI.2). The weighted cooperation rate (that is, the weighted cooperation rate among located sample members) of 58 percent (Table VI.2) is the weighted count of sample members who completed an interview or were deemed ineligible divided by the weighted sample count of all located sample members.$^{69}$ Weighted cooperation rates reflect the rate at which completed interviews are obtained from repeated contact efforts among located persons.

$^{65}$ Passive refusals include cases in which the sample member or proxy: (1) scheduled an appointment to be interviewed, but were not available during the appointment time(s); or (2) were located (e.g., we confirmed their telephone number or address through a gatekeeper, family member or friend, or the sample member’s voicemail message), but evaded the interview by never responding to calls, letters, or in-person visits.

$^{66}$ This response rate is calculated using the base weight, also referred to as the release- and two-phase-adjusted sampling weight.

$^{67}$ The response rate is calculated as the weighted count of sample members who completed an interview or were deemed ineligible divided by the weighted sample count of all sample members: (number of completed interviews + number of partially completed interviews + number of ineligibles)/(number of cases in the sample). The response rate is very close in value to the American Association of Public Opinion Research (AAPOR) standard response rate calculation: $RR_{AAPOR} = \frac{\text{number of completed interviews}}{\text{number of cases in the sample} - \text{estimated number of ineligible cases}}$. Ineligible cases are included in the numerator and denominator for two reasons: (1) the cases classified as ineligible are part of the original sampling frame (and hence the study population) and we obtained complete information for fully classifying these cases (that is, their responses to the eligibility questions in the questionnaire are complete) such that we may classify them as respondents; and (2) incorporating the ineligibles into the numerator and denominator of the response rate is equivalent to the definition of a more conventional response rate, when all nonrespondents have unknown eligibility status. In our case, the vast majority of nonrespondents have unknown eligibility status.

$^{68}$ This product is not exactly equal to the weighted response rate, since the location rate is calculated using the base weight, and the cooperation rate among located cases is calculated using the location-adjusted base weight.

$^{69}$ The counts provided in Table VI.2 are unweighted, and the rates (percentages) are weighted by the original sampling weight for the location rate, and the location-adjusted weight for the cooperation rate. The final response rate is weighted using the original sampling weight.
Table VI.2. Weighted location, cooperation, and response rates for Representative Beneficiary Sample, by selected characteristics

<table>
<thead>
<tr>
<th></th>
<th>Sample</th>
<th>Located sample</th>
<th>Response among located sample</th>
<th>Overall respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Count</td>
<td>Weighted location rate</td>
<td>Count</td>
</tr>
<tr>
<td>All</td>
<td>6,158</td>
<td>6,004</td>
<td>93.4</td>
<td>4,269</td>
</tr>
<tr>
<td>SSI only, SSDI only, or both SSI and SSDI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSI only</td>
<td>2,492</td>
<td>2,417</td>
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<td>Both SSI and SSDI</td>
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<td>Deaf</td>
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<td>34</td>
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<tr>
<td>Cognitive disability</td>
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<td>Physical disability</td>
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<td>1,822</td>
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<td>Unknown</td>
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<td>110</td>
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<td>78</td>
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<td>Beneficiary’s age</td>
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<tr>
<td>18 to 29</td>
<td>1,695</td>
<td>1,652</td>
<td>92.8</td>
<td>1,191</td>
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<tr>
<td>30 to 39</td>
<td>1,661</td>
<td>1,613</td>
<td>91.8</td>
<td>1,129</td>
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<tr>
<td>40 to 49</td>
<td>1,709</td>
<td>1,664</td>
<td>91.9</td>
<td>1,188</td>
</tr>
<tr>
<td>50 and older</td>
<td>1,093</td>
<td>1,075</td>
<td>94.1</td>
<td>761</td>
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<tr>
<td>Sex</td>
<td></td>
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<tr>
<td>Male</td>
<td>3,225</td>
<td>3,149</td>
<td>92.6</td>
<td>2,130</td>
</tr>
<tr>
<td>Female</td>
<td>2,933</td>
<td>2,855</td>
<td>94.2</td>
<td>2,139</td>
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<td>Ethnicity</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Hispanic</td>
<td>222</td>
<td>213</td>
<td>93.4</td>
<td>155</td>
</tr>
<tr>
<td>Non-Hispanic</td>
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<td>5,791</td>
<td>93.4</td>
<td>4,114</td>
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<td>Race</td>
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<tr>
<td>White</td>
<td>3,133</td>
<td>3,061</td>
<td>92.2</td>
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<tr>
<td>Black</td>
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<td>1,116</td>
<td>94.4</td>
<td>805</td>
</tr>
<tr>
<td>Hispanic</td>
<td>222</td>
<td>213</td>
<td>93.4</td>
<td>155</td>
</tr>
<tr>
<td>Asian American, Pacific Island</td>
<td>60</td>
<td>60</td>
<td>100.0</td>
<td>33</td>
</tr>
<tr>
<td>American Indian, or Alaska Native</td>
<td>16</td>
<td>13</td>
<td>66.9</td>
<td>6</td>
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<tr>
<td>Unknown</td>
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<td>96.1</td>
<td>1,086</td>
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<td>Living situation</td>
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<td>3,045</td>
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<td>Living with others</td>
<td>268</td>
<td>263</td>
<td>95.3</td>
<td>203</td>
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<tr>
<td>Living with parents</td>
<td>112</td>
<td>108</td>
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<td>76</td>
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<tr>
<td>In institution or unknown</td>
<td>52</td>
<td>52</td>
<td>100.0</td>
<td>35</td>
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### Table VI.2 (continued)

<table>
<thead>
<tr>
<th>Sample</th>
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<th>Response among located sample</th>
<th>Overall respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Count</td>
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<tr>
<td>Unknown</td>
<td>2,596</td>
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<td>93.8</td>
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#### Did the applicant for benefits live in the same ZIP code as the beneficiary?

<table>
<thead>
<tr>
<th></th>
<th>Count</th>
<th>Count</th>
<th>Weighted location rate</th>
<th>Count</th>
<th>Weighted cooperation rate</th>
<th>Weighted Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>483</td>
<td>467</td>
<td>92.2</td>
<td>312</td>
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<td>51.6</td>
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<td>Yes</td>
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<td>2,868</td>
<td>92.9</td>
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<td>2,669</td>
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</table>

#### Identity of the payee with respect to the beneficiary

<table>
<thead>
<tr>
<th></th>
<th>Count</th>
<th>Count</th>
<th>Weighted location rate</th>
<th>Count</th>
<th>Weighted cooperation rate</th>
<th>Weighted Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beneficiary received payments directly</td>
<td>246</td>
<td>237</td>
<td>95.2</td>
<td>174</td>
<td>62.6</td>
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<td>2,003</td>
<td>94.6</td>
<td>1,423</td>
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<td>55.5</td>
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<tr>
<td>Payee is an institution</td>
<td>253</td>
<td>247</td>
<td>91.4</td>
<td>154</td>
<td>56.9</td>
<td>52.4</td>
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<tr>
<td>Other</td>
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<td>113</td>
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<td>74</td>
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#### Number of phone numbers in file

<table>
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<th>Count</th>
<th>Weighted cooperation rate</th>
<th>Weighted Response rate</th>
</tr>
</thead>
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<td>One</td>
<td>1,399</td>
<td>1,363</td>
<td>92.8</td>
<td>970</td>
<td>57.5</td>
<td>53.5</td>
</tr>
<tr>
<td>Two</td>
<td>1,855</td>
<td>1,810</td>
<td>91.5</td>
<td>1,282</td>
<td>60.2</td>
<td>55.2</td>
</tr>
<tr>
<td>Three</td>
<td>1,471</td>
<td>1,437</td>
<td>96.2</td>
<td>997</td>
<td>56.4</td>
<td>54.3</td>
</tr>
<tr>
<td>Four</td>
<td>936</td>
<td>916</td>
<td>95.5</td>
<td>670</td>
<td>63.7</td>
<td>60.9</td>
</tr>
<tr>
<td>Five or more</td>
<td>415</td>
<td>402</td>
<td>90.1</td>
<td>299</td>
<td>53.2</td>
<td>47.9</td>
</tr>
<tr>
<td>Zero, or no information</td>
<td>82</td>
<td>76</td>
<td>74.8</td>
<td>51</td>
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<td>25.0</td>
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</table>

#### Number of addresses in file

<table>
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<th>Count</th>
<th>Weighted location rate</th>
<th>Count</th>
<th>Weighted cooperation rate</th>
<th>Weighted Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>1,399</td>
<td>1,363</td>
<td>92.8</td>
<td>970</td>
<td>57.5</td>
<td>53.5</td>
</tr>
<tr>
<td>Two</td>
<td>1,855</td>
<td>1,810</td>
<td>91.5</td>
<td>1,282</td>
<td>60.2</td>
<td>55.2</td>
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<tr>
<td>Three</td>
<td>1,471</td>
<td>1,437</td>
<td>96.2</td>
<td>997</td>
<td>56.4</td>
<td>54.3</td>
</tr>
<tr>
<td>Four</td>
<td>936</td>
<td>916</td>
<td>95.5</td>
<td>670</td>
<td>63.7</td>
<td>60.9</td>
</tr>
<tr>
<td>Five or more</td>
<td>415</td>
<td>402</td>
<td>90.1</td>
<td>299</td>
<td>53.2</td>
<td>47.9</td>
</tr>
<tr>
<td>Zero, or no information</td>
<td>82</td>
<td>76</td>
<td>74.8</td>
<td>51</td>
<td>34.4</td>
<td>25.0</td>
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</table>

#### Census region

<table>
<thead>
<tr>
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<th>Count</th>
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<th>Count</th>
<th>Weighted cooperation rate</th>
<th>Weighted Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midwest</td>
<td>1,337</td>
<td>1,309</td>
<td>93.7</td>
<td>953</td>
<td>59.7</td>
<td>55.9</td>
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<tr>
<td>Northeast</td>
<td>1,121</td>
<td>1,095</td>
<td>91.2</td>
<td>757</td>
<td>55.9</td>
<td>51.3</td>
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<tr>
<td>South</td>
<td>2,516</td>
<td>2,447</td>
<td>94.2</td>
<td>1,779</td>
<td>61.3</td>
<td>57.9</td>
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<tr>
<td>West</td>
<td>1,184</td>
<td>1,153</td>
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<td>780</td>
<td>52.3</td>
<td>48.9</td>
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#### Census division

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<th>Count</th>
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<th>Count</th>
<th>Weighted cooperation rate</th>
<th>Weighted Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>East North Central</td>
<td>926</td>
<td>908</td>
<td>93.6</td>
<td>670</td>
<td>61.4</td>
<td>57.3</td>
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<tr>
<td>East South Central</td>
<td>573</td>
<td>562</td>
<td>96.1</td>
<td>413</td>
<td>63.6</td>
<td>61.3</td>
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<tr>
<td>Middle Atlantic</td>
<td>813</td>
<td>790</td>
<td>89.3</td>
<td>539</td>
<td>55.8</td>
<td>50.1</td>
</tr>
<tr>
<td>Mountain</td>
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<td>284</td>
<td>58.9</td>
<td>54.9</td>
</tr>
<tr>
<td>New England</td>
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<td>305</td>
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<td>218</td>
<td>56.4</td>
<td>54.3</td>
</tr>
<tr>
<td>Pacific</td>
<td>777</td>
<td>755</td>
<td>93.6</td>
<td>496</td>
<td>48.9</td>
<td>45.8</td>
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</table>
## Table VI.2 (continued)

<table>
<thead>
<tr>
<th>Metropolitan status of county</th>
<th>Sample</th>
<th>Located sample</th>
<th>Response among located sample</th>
<th>Overall respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Count</td>
<td>Weighted location rate</td>
<td>Weighted cooperation rate</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>1,196</td>
<td>1,163</td>
<td>93.4</td>
<td>826</td>
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<tr>
<td>West North Central</td>
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<td>401</td>
<td>93.9</td>
<td>283</td>
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<td>West South Central</td>
<td>747</td>
<td>722</td>
<td>94.0</td>
<td>540</td>
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<tr>
<td>Metropolitan areas with population of 1 million or more</td>
<td>2,778</td>
<td>2,702</td>
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<td>1,854</td>
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<tr>
<td>Metropolitan areas with population of 250,000 to 999,999</td>
<td>1,676</td>
<td>1,637</td>
<td>94.9</td>
<td>1,188</td>
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<tr>
<td>Metropolitan areas with population of fewer than 250,000</td>
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<td>727</td>
<td>93.7</td>
<td>529</td>
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<tr>
<td>Nonmetropolitan areas adjacent to large metropolitan areas</td>
<td>224</td>
<td>218</td>
<td>87.9</td>
<td>175</td>
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<tr>
<td>Nonmetropolitan areas adjacent to medium or small metropolitan areas</td>
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<td>520</td>
<td>94.2</td>
<td>372</td>
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<td>Nonmetropolitan areas not adjacent to metropolitan areas</td>
<td>210</td>
<td>200</td>
<td>87.4</td>
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<td>County with low education level</td>
<td>Yes</td>
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<td>742</td>
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<td>5,401</td>
<td>5,262</td>
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<td>Yes</td>
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<td>538</td>
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<td>No</td>
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<td>5,466</td>
<td>93.6</td>
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<tr>
<td>County with population loss</td>
<td>Yes</td>
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<td>212</td>
<td>91.2</td>
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<td>5,792</td>
<td>93.5</td>
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<td>Retirement destination county</td>
<td>Yes</td>
<td>902</td>
<td>877</td>
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<tr>
<td></td>
<td>No</td>
<td>5,256</td>
<td>5,127</td>
<td>92.9</td>
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<tr>
<td>County with manufacturing-dependent economy</td>
<td>Yes</td>
<td>537</td>
<td>525</td>
<td>88.8</td>
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<tr>
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<td>No</td>
<td>5,621</td>
<td>5,479</td>
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<td>County with government-dependent economy</td>
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<td>626</td>
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<td></td>
<td>No</td>
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<td>5,378</td>
<td>93.5</td>
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<tr>
<td>High poverty county</td>
<td>Yes</td>
<td>711</td>
<td>691</td>
<td>93.9</td>
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<td></td>
<td>No</td>
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<td>5,313</td>
<td>93.3</td>
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</table>
### Table VI.2 (continued)

<table>
<thead>
<tr>
<th></th>
<th>Sample</th>
<th>Located sample</th>
<th>Response among located sample</th>
<th>Overall respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Count</td>
<td>Weighted location rate</td>
<td>Count</td>
</tr>
<tr>
<td><strong>High child poverty county</strong></td>
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<td>Yes</td>
<td>931</td>
<td>899</td>
<td>94.7</td>
<td>663</td>
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<td>No</td>
<td>5,227</td>
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<td>93.2</td>
<td>3,606</td>
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<td></td>
<td></td>
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<tr>
<td>At least 90 percent non-Hispanic White</td>
<td>530</td>
<td>519</td>
<td>90.4</td>
<td>386</td>
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<tr>
<td>Plurality or majority Hispanic</td>
<td>519</td>
<td>500</td>
<td>94.5</td>
<td>339</td>
</tr>
<tr>
<td>Majority but less than 90 percent non-Hispanic White</td>
<td>2,915</td>
<td>2,844</td>
<td>92.7</td>
<td>1,997</td>
</tr>
<tr>
<td>Racially/ethnically mixed, no majority group</td>
<td>1,981</td>
<td>1,938</td>
<td>95.1</td>
<td>1,397</td>
</tr>
<tr>
<td>Plurality or majority non-Hispanic Black</td>
<td>213</td>
<td>203</td>
<td>91.0</td>
<td>150</td>
</tr>
<tr>
<td><strong>DCF earnings category</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monthly DCF earnings above SGA(^c) for three consecutive months in 2017 or 2018</td>
<td>313</td>
<td>305</td>
<td>92.0</td>
<td>196</td>
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<tr>
<td>Gross annual DCF earnings above three times SGA in 2017 or 2018</td>
<td>281</td>
<td>274</td>
<td>91.8</td>
<td>200</td>
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<tr>
<td>Gross annual DCF earnings above $0 in 2017 or 2018</td>
<td>408</td>
<td>394</td>
<td>93.6</td>
<td>299</td>
</tr>
<tr>
<td>No annual DCF earnings in 2017 or 2018</td>
<td>5,156</td>
<td>5,031</td>
<td>93.5</td>
<td>3,574</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

\(^a\)No beneficiaries were sampled in the sixth county type, that of counties where at least 20 percent of the population was American Indian

\(^b\)The DCF earnings categories are subdivided sequentially. In other words, the second category excludes those who were in the first category; the third excludes those who were in the first or second category, and so on.

\(^c\)Non-blind substantial gainful activity, or $1,170 in 2017, $1,180 in 2018, and $1,220 in 2019.

DCF=Disability Control File

The sample count in Table VI.2 excludes second-phase-eligible cases that were not selected for the second phase, as these cases have zero weight. We used the weighted rates because (1) with two-phase sampling, the unweighted rates are not meaningful;\(^70\) (2) the sampling rates—and thus the sampling weights—vary substantially across the sampling strata (as seen in Table VI.1); and (3) the weighted rates better reflect the potential for nonresponse bias. The weighted rates represent the percentage of the full

---

\(^70\) If we included the second-phase-eligible cases that were not selected for the second phase, the unweighted response rate would be too low, and it would not reflect the fact that the cases’ base weights were transferred to other sample members. If we excluded these cases, the unweighted response rate would be too high, and it would not reflect the unsuccessful effort to get a response from these cases in the first phase.
survey population for which we were able to obtain information sufficient for use in the data analysis or in determining ineligibility for the analysis.

c. Factors related to location and cooperation

In addition to overall response rate information, Table VI.2 provides information for factors that were considered for use in the location and cooperation models. The table displays the unweighted counts of all sample members, counts of located sample members, and counts of sample members who completed an interview or who were deemed ineligible. It also includes the weighted location rate (using the original base weight), the weighted cooperation rate among located sample members (using the location-adjusted base weight), and the weighted overall response rate (using the original base weight) for these factors, which helped inform the decision about the final set of variables to be used in the nonresponse adjustment models.

d. Propensity models for weight adjustments

Using the main effects already described, we developed response propensity models to determine the nonresponse adjustments. To identify candidate interactions from the main effects for the modeling, we first ran a chi-squared automatic interaction detector (CHAID) analysis in SPSS to find possible significant interactions. The CHAID procedure iteratively segments a data set into mutually exclusive subgroups that share similar characteristics based on their effects on nominal or ordinal dependent variables. It automatically checks all variables in the data set and creates a hierarchy showing all statistically significant subgroups. The algorithm identifies splits in the population, which are as different as possible based on a chi-squared statistic. The forward stepwise procedure finds the most diverse subgroupings and then splits each subgroup further into more diverse sub-subgroups. Sample size limitations are set to avoid cells with small counts. The procedure stops when splits are no longer significant; that is, a group is homogeneous with respect to variables not yet used or the cells contain too few cases. The CHAID procedure produces a tree that identifies the set of variables and interactions among the variables that are associated with the ability to locate a sample member (and a located sample member’s propensity either to respond to or to be deemed ineligible for the NBS). We first ran CHAID with all covariates and then reran it a few times with the top variable in the tree removed to ensure the retention of all potentially important interactions for additional consideration. We further reduced the resulting pool of covariates by evaluating tabulations of all the main effects and the interactions identified by CHAID. At a particular level of a given covariate or interaction, if all respondents were either located or unlocated (for the location models), complete or not complete (for the cooperation models), or the total number of sample members at that level was fewer than 20, the levels were collapsed if collapsing was possible. If collapsing was not possible, then we excluded the covariate or interaction from the pool.

To further refine the candidate variables and interaction terms, we processed all of the resulting candidate main effects and the interactions identified by CHAID using forward and backward stepwise regression (using the STEPWISE option of the SAS LOGISTIC procedure with weights normalized to the sample

---

71 CHAID is normally attributed to Kass (1980) and Biggs et al. (1991). Its application in SPSS is described in Magidson (1993).

72 Deafness historically has been shown to be an important indicator both of locating a sample member and determining whether the sample member completed the interview. For that reason, deafness remained in the covariate pool even though the number of deaf cases was sometimes as few as 18.
After identifying a smaller pool of main effects and interactions for potential inclusion in the final model, we carefully evaluated a set of models to determine the final model. We relied on the logistic regression procedures in software that accounted for the sample design to make the final selection of covariates (SURVEYLOGISTIC in SAS and RLOGIST in SUDAAN).

For selecting variables or interactions in the stepwise procedures, we included variables or interactions with a statistical significance level (alpha level) of 0.30 or lower (instead of the commonly used 0.05). Once we determined the candidate list of main effects and interactions, we used a thorough model-fitting process to determine a parsimonious model with few very small propensities. (In Section A of this chapter, we described the model selection criteria.) Once we decided which interactions to include in each final model, the main effects corresponding to each interaction were also included in the final model, regardless of the significance level of those main effects. For example, suppose the age-by-gender interaction was significant in the location model. In that case, the significance levels for the age and gender main effects were not important, because the nature of the relationship between location, age, and gender is contained in the interaction. In Table VI.3, we summarize the variables used in the model as main effects and interactions for locating a sample member. In Table VI.4, we summarize the variables used in the model for cooperation among located sample members.

<table>
<thead>
<tr>
<th>Factors in location model</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main effects</strong></td>
<td></td>
</tr>
<tr>
<td>AGECAT (AGE CATEGORY)</td>
<td></td>
</tr>
<tr>
<td>RACE</td>
<td></td>
</tr>
<tr>
<td>SSI_SSDI (BENEFICIARY TITLE: RECIPIENT OF SSI AND/OR SSDI)</td>
<td></td>
</tr>
<tr>
<td>PHONE (CATEGORIZED COUNT OF PHONE NUMBERS IN SSA FILES)</td>
<td></td>
</tr>
<tr>
<td>DIVISION (CENSUS DIVISION)</td>
<td></td>
</tr>
<tr>
<td>REPREPAYEE (IDENTITY OF PAYEE WITH RESPECT TO BENEFICIARY)</td>
<td></td>
</tr>
<tr>
<td>CNTYRET (COUNTY WITH AN INCREASING PROPORTION OF RETIREES)</td>
<td></td>
</tr>
<tr>
<td><strong>Two-Factor Interactions</strong></td>
<td>(NONE)</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

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73 SUDAAN offers no automated stepwise procedures; the stepwise procedures described here were performed by using SAS.

74 As stated, we used a higher significance level because the model’s purpose was to improve the estimation of the propensity score rather than to identify statistically significant factors related to response. In addition, the information sometimes reflected proxy variables for some underlying variable that was both unknown and unmeasured.
### Table VI.4. Cooperation logistic propensity model: RBS

<table>
<thead>
<tr>
<th>Factors in cooperation model</th>
<th>Main effects</th>
<th>Two-factor Interactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGECAT (AGE CATEGORY)</td>
<td></td>
<td>CNTYPERSPOV * AGECAT</td>
</tr>
<tr>
<td>MOVE (CATEGORIZED COUNT OF ADDRESSES IN SSA FILES)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHNICITY (HISPANIC OR NOT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EARNINGS CATEGORY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METRO (METROPOLITAN STATUS OF COUNTY)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GENDER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPREPAYEE (IDENTITY OF PAYEE WITH RESPECT TO BENEFICIARY)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNTYPERSPOV (COUNTY WITH PERSISTENT HIGH LEVELS OF POVERTY)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNTYCHPOV (COUNTY WITH PERSISTENT CHILD POVERTY)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNTYREC (COUNTY WITH RECREATION-BASED ECONOMY)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

The Cox-Snell R-squared is 0.028 (0.074 when rescaled to have a maximum of 1) for the location model and 0.035 (0.048 when rescaled) for the cooperation model. These values are similar to those observed for other response propensity modeling efforts that use logistic regression with design-based sampling weights. For the location model, 53.5 percent of pairs are concordant, 43.7 percent of pairs are discordant, and the p-value for the chi-square statistic from the H-L goodness-of-fit test is 0.894. Although the percentages that are concordant and discordant are slightly less favorable than in prior rounds, the other diagnostic values indicate a reasonably good fit of the model to the data. The location adjustments from the model, calculated as the inverse of the location propensity scores, ranged from 1.00 to 1.79. For the cooperation model, 54.1 percent of pairs are concordant and 44.5 percent of pairs are discordant. The p-value for the chi-squared statistic for the H-L goodness-of-fit test is 0.744 for the model. The cooperation adjustments from the model, which are calculated as the inverse of the

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75 The Generalized Coefficient of Determination (Cox and Snell 1989) is a measure of the adequacy of the model, in which higher numbers indicate a greater difference between the likelihood of the model in question and the null model. The Max Rescaled R-Square scales this value to have a maximum of 1.

76 A pair of observations is concordant if a responding subject has a higher predicted value than a nonresponding subject, discordant if not, and tied if both members of the pair are respondents, nonrespondents, or have the same predicted values. It is desirable to have as many concordant pairs and as few discordant pairs as possible (Agresti 1996).

77 The H-L Goodness-of-Fit Test is a test for goodness of fit of logistic regression models. Unlike the Pearson and deviance goodness-of-fit tests, it may be used to test goodness of fit even when some covariates are continuous (Hosmer and Lemeshow 1989). SUDAAN provides three options for calculating this test; we used the Satterthwaite option. See the SUDAAN User’s Manual for details. A hard copy manual is available for Version 9.0 (Research Triangle Institute, 2004), and an online version is available for Version 11.0 (see www.rti.org/sudaan).
cooperation propensity score, ranged from 1.14 to 4.78. The overall nonresponse adjustment (the product of the location adjustment and the cooperation adjustment) ranged from 1.16 to 5.57.  

Among the variables used in the location and cooperation models shown in Tables VI.3 and VI.4, the number of levels used in the models is often fewer than the number of levels in Table VI.2; the levels collapsed for the models are described following the tables. The factors used in the location model included the following:

- **PHONE.** Count of phone numbers in SSA files. There are five levels: Levels 1 through 4 indicate one, two, three, or four phone numbers on file, respectively, and Level 5 indicates no phone numbers or five or more phone numbers on file.
- **DIVISION.** Geographic region of beneficiary’s place of residence based on U.S. Census divisions, with two levels: (1) Middle Atlantic division and (2) all other census divisions in the United States.
- **RACE.** Race of beneficiary. There are three levels: (1) non-Hispanic White; (2) non-Hispanic Black; and (3) neither non-Hispanic White nor non-Hispanic Black, or race not known.
- **REPREPAYEE.** The identity of the payee with respect to the beneficiary. There are two levels: (1) a family member received benefits on behalf of the beneficiary, and (2) the beneficiary received payments himself or herself, an institution received payments on behalf of the beneficiary, or the payee’s identity is not known.
- **AGECAT.** Beneficiary’s age category. There are three levels: (1) age 18 to 29, (2) age 30 to 39, and (3) age 40 or older.
- **GENDER.** Beneficiary’s sex. There are two levels: (1) male and (2) female.
- **SSI_SSDI.** Beneficiary title. There are two levels: (1) recipient of SSI only and (2) recipient of SSDI, either with SSI (concurrent) or SSDI only.
- **CNTYRET.** Retirement destination county. There are two levels: (1) Number of residents age 60 and older grew by 15 percent or more between 2000 and 2010 censuses due to net migration; and (2) the county does not have this attribute.

Although we attempted to fit interactions in the model, the final selected model did not have any interactions for locating sample members. In Table VI.3, we provide the main effects using the variable names listed above. In Appendix J, we provide parameter estimates and their standard errors. The factors used in the cooperation model included the following:

- **AGECAT.** Beneficiary’s age category. There are four levels: (1) age 18 to 29, (2) age 30 to 39, (3) age 40 to 49, and (4) age 50 or older.
- **MOVE.** Count of addresses in SSA files. There are five levels: Levels 1 through 4 indicate one, two, three, or four addresses on file, respectively, and Level 5 indicates no addresses or five or more addresses on file.
- **ETHNICITY.** Ethnicity of beneficiary. There are two levels: (1) Hispanic and (2) not Hispanic.
- **METRO.** Metropolitan status of beneficiary’s county of residence. There are three levels: (1) beneficiary lived in metropolitan area with population of 250,000 or more; (2) beneficiary lived in

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78 Recognizing that the Akaike’s Information Criterion is a relative number and has no meaning on its own, we do not provide values for it here.
metropolitan area with population of fewer than 250,000; and (3) beneficiary lived in nonmetropolitan area.

- **GENDER.** Beneficiary’s sex. There are two levels: (1) male and (2) female.

- **EARNCAT.** Earnings category from 2017 to 2018. There are four mutually exclusive levels: (1) gross annual earnings exceed SGA for three consecutive months at least once in 2017 or 2018; (2) not in Group 1, but gross annual earnings exceed three times SGA in 2017 or 2018; (3) not in Groups 1 or 2, but gross annual earnings exceed zero in 2017 or 2018; and (4) gross annual earnings are zero in both 2017 and 2018.

- **CNTYREC.** County with recreation-dependent economy. There are two levels. Level 1 indicates that the county’s economy depends on recreation, with the indication determined using three data sources: (1) percentage of wage and salary employment in entertainment and recreation, accommodations, eating and drinking places, and real estate as a percentage of all employment reported by the Bureau of Economic Analysis; (2) percentage of total personal income reported for these same categories by the Bureau of Economic Analysis; and (3) percentage of vacant housing units intended for seasonal or occasional use as reported in the 2010 census. Level 2 indicates that either the county’s economy does not depend on recreation or there is no information. 79

- **CNTYCPOV.** County with persistent high levels of child poverty. There are two levels. Level 1 indicates a county where 20 percent or more of children in the county under 18 were poor, measured in the 1980, 1990, 2000 censuses, and the American Community Survey 5-year average data for 2007–11. Level 2 indicates a county without this attribute.

- **CNTYHPOV.** County with persistent high levels of child poverty. There are two levels. Level 1 indicates that 20 percent or more of county-related children under 18 were poor, as measured in the 1980, 1990, and 2000 censuses and the American Community Survey’s five-year average data for 2007–11. Level 2 indicates a county without this attribute.

The model also included a single interaction, that of CNTYCHPOV by AGECAT. In Table VI.4, we provide the main effects using the variable names. In Appendix J, we provide an expanded form of Table VI.4, with parameter estimates and their standard errors.

3. **Post-stratification and trimming**

After we applied adjustments to the base weights, we reviewed the distribution of weights to determine the need for further weight trimming. With the two-phase design, we expected that trimming (within age group) would be needed to ameliorate the increased unequal weighting effect. We trimmed 64 weights to reduce the maximum design effect attributable to unequal weighting from 1.98 to 1.91, which we observed with the second-youngest age stratum.

Post-stratification is the procedure that aligns the weighted sums of the response-adjusted weights to known totals external to the survey. The process offers face validity for reporting population counts and has some statistical benefits. For the RBS, we post-stratified to the marginal population totals for four variables obtained from SSA. In particular, the totals were the total number of SSI and SSDI beneficiaries by age (four categories); gender; beneficiary title, or recipient status (SSI only, SSDI only, and both); and

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79 The Area Health Resource File documentation does not specify the percentage for these three items that would indicate that the county has a recreation-dependent economy.
DCF earnings (five categories derived from DCF earnings in 2017 and 2018—the same categories that were used for the RBS nonresponse models). We conducted no trimming after post-stratification.

**C. Cross-sectional SWS**

As noted earlier, we selected the cross-sectional SWS from the Round 7 provisional population of successful workers, a subset of all SSI/SSDI beneficiaries. The sample was selected from seven successive frames, depending upon when the successful worker was identified. In each successive frame, we allocated the sample within two strata defined by beneficiary type (SSDI only, and SSI, which included both SSI only and concurrent beneficiaries). The total number of successful workers identified across the seven frames was 101,698, and the size of each extract ranged from 8,572 (final extract) to 19,852 (first extract). Due to concerns about the number of successful workers in each extract and their distribution across PSUs, we decided to use a dual sample design for all strata. As a result, we supplemented the clustered sample in each extract with a random sample of successful workers from the entire population of successful workers in the same extract.

We selected all respondents in the clustered sample from PSUs, whereas the unclustered sample included successful workers that may or may not have been in the selected PSUs. We therefore organized the unclustered sample into two strata: in the PSU or not in the PSU. In most cases, respondents selected for the in-PSU stratum of the unclustered sample were also in the clustered sample. The weights for such duplicate cases had to be adjusted appropriately to account for a single respondent’s appearance in two independent samples. (In the next subsection, we discuss the compositing scheme used to make the needed adjustments.) In addition, if the central office**80** could not resolve the final status of sample members, it treated them differently in the clustered and unclustered samples. For the clustered sample, the central office sent sample cases that they could not resolve by telephone to the field for further follow-up for attempted personal interviews. In the unclustered sample, interviewers made no further attempt to resolve the status of sample members who could not be resolved in the central office. This process is analogous to the accepted practice of subsampling nonrespondents for more intensive effort—in this case, we sent unresolved cases from the clustered sample for field follow-up, but did not follow up unresolved cases in the unclustered sample. When creating composite weights (described in the next section), we zeroed out the weights for the cases in the unclustered sample that would have gone to the field had they been in the clustered sample as they were already represented by those in the clustered sample.**81** In Table VI.5, we present the final sample sizes for the SWS. This table shows a final released sample of 6,022 cases in the clustered sample and 2,568 in the unclustered sample, for a total of 8,590 sample cases, of which 152 were selected for both the clustered and unclustered samples, and were therefore duplicated across the two samples.

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**80** The central office is the Mathematica Survey Operations Center.

**81** If a sample member was selected as part of both the clustered and unclustered samples, and the case was sent to the field for further follow-up and was then resolved in the field, the response had to be treated differently between the two samples. For the sample respondent, the value in the clustered sample was recorded according to its final status in the field, whereas the value in the unclustered sample was recorded as “not selected for field follow-up.”
Table VI.5. Survey population and initial augmented and final sample sizes, by sampling extracts and strata in the cross-sectional Successful Worker Sample

<table>
<thead>
<tr>
<th>Data extraction date</th>
<th>Stratum</th>
<th>Population count</th>
<th>Augmented clustered sample</th>
<th>Augmented sample, unclustered</th>
<th>Released clustered sample</th>
<th>Released unclustered sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/1/18</td>
<td>SSDI only, in PSUs</td>
<td>1,816</td>
<td>773</td>
<td>72</td>
<td>588</td>
<td>48</td>
</tr>
<tr>
<td>12/1/18</td>
<td>SSDI only, not in PSUs</td>
<td>7,362</td>
<td>295</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12/1/18</td>
<td>All SSI, in PSUs</td>
<td>2,498</td>
<td>927</td>
<td>80</td>
<td>697</td>
<td>53</td>
</tr>
<tr>
<td>12/1/18</td>
<td>All SSI, not in PSUs</td>
<td>8,176</td>
<td>261</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/15/19</td>
<td>SSDI only, in PSUs</td>
<td>1,688</td>
<td>641</td>
<td>83</td>
<td>488</td>
<td>55</td>
</tr>
<tr>
<td>1/15/19</td>
<td>SSDI only, not in PSUs</td>
<td>6,259</td>
<td>306</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/15/19</td>
<td>All SSI, in PSUs</td>
<td>2,018</td>
<td>805</td>
<td>31</td>
<td>607</td>
<td>21</td>
</tr>
<tr>
<td>1/15/19</td>
<td>All SSI, not in PSUs</td>
<td>6,222</td>
<td>94</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/1/19</td>
<td>SSDI only, in PSUs</td>
<td>1,581</td>
<td>664</td>
<td>28</td>
<td>517</td>
<td>18</td>
</tr>
<tr>
<td>3/1/19</td>
<td>SSDI only, not in PSUs</td>
<td>6,300</td>
<td>109</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/1/19</td>
<td>All SSI, in PSUs</td>
<td>2,074</td>
<td>774</td>
<td>49</td>
<td>582</td>
<td>33</td>
</tr>
<tr>
<td>3/1/19</td>
<td>All SSI, not in PSUs</td>
<td>6,510</td>
<td>155</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/15/19</td>
<td>SSDI only, in PSUs</td>
<td>1,434</td>
<td>543</td>
<td>40</td>
<td>411</td>
<td>27</td>
</tr>
<tr>
<td>4/15/19</td>
<td>SSDI only, not in PSUs</td>
<td>5,736</td>
<td>160</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/15/19</td>
<td>All SSI, in PSUs</td>
<td>1,157</td>
<td>212</td>
<td>120</td>
<td>147</td>
<td>80</td>
</tr>
<tr>
<td>4/15/19</td>
<td>All SSI, not in PSUs</td>
<td>3,908</td>
<td>407</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/1/19</td>
<td>SSDI only, in PSUs</td>
<td>2,008</td>
<td>752</td>
<td>51</td>
<td>562</td>
<td>35</td>
</tr>
<tr>
<td>6/1/19</td>
<td>SSDI only, not in PSUs</td>
<td>7,849</td>
<td>202</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/1/19</td>
<td>All SSI, in PSUs</td>
<td>1,738</td>
<td>644</td>
<td>83</td>
<td>482</td>
<td>55</td>
</tr>
<tr>
<td>6/1/19</td>
<td>All SSI, not in PSUs</td>
<td>5,695</td>
<td>272</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/15/19</td>
<td>SSDI only, in PSUs</td>
<td>1,261</td>
<td>476</td>
<td>34</td>
<td>356</td>
<td>22</td>
</tr>
<tr>
<td>7/15/19</td>
<td>SSDI only, not in PSUs</td>
<td>5,048</td>
<td>135</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/15/19</td>
<td>All SSI, in PSUs</td>
<td>1,076</td>
<td>400</td>
<td>80</td>
<td>292</td>
<td>53</td>
</tr>
<tr>
<td>7/15/19</td>
<td>All SSI, not in PSUs</td>
<td>3,712</td>
<td>277</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9/1/19</td>
<td>SSDI only, in PSUs</td>
<td>1,001</td>
<td>247</td>
<td>32</td>
<td>178</td>
<td>22</td>
</tr>
<tr>
<td>9/1/19</td>
<td>SSDI only, not in PSUs</td>
<td>4,079</td>
<td>131</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9/1/19</td>
<td>All SSI, in PSUs</td>
<td>783</td>
<td>160</td>
<td>59</td>
<td>115</td>
<td>39</td>
</tr>
<tr>
<td>9/1/19</td>
<td>All SSI, not in PSUs</td>
<td>2,709</td>
<td>204</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>SSDI only, in PSUs</td>
<td>10,789</td>
<td>3,922</td>
<td>340</td>
<td>3,100</td>
<td>227</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>SSDI only, not in PSUs</td>
<td>42,633</td>
<td>1,338</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>All SSI, in PSUs</td>
<td>11,344</td>
<td>4,096</td>
<td>502</td>
<td>2,922</td>
<td>334</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>All SSI, not in PSUs</td>
<td>36,930</td>
<td>1,670</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Overall total</strong></td>
<td></td>
<td><strong>101,698</strong></td>
<td><strong>8,018</strong></td>
<td><strong>3,850</strong></td>
<td><strong>6,022</strong></td>
<td><strong>2,568</strong></td>
</tr>
</tbody>
</table>

As indicated, for the clustered samples within each extract, we allocated the sample across the 79 PSUs, with the Los Angeles PSU receiving a double allocation because it had two selections. Given the smaller population sizes for successful workers when compared to the broader beneficiary population, we used...
only the full PSUs; we did not use the SSUs in the Los Angeles PSU (four SSUs) or the Cook County (Chicago) PSU (two SSUs), which were used for the RBS.

1. Initial probability weights

We computed the initial weights for the cross-sectional SWS clustered sample based on the probability of selection within the PSU of the augmented sample within the two strata of each extract (SSDI only or SSI) and the probability of selection for the PSU. For the corresponding unclustered sample, we computed the initial weights based on the selection probability within the four sampling strata of each extract (SSDI only in PSUs, SSDI only not in any PSU, SSI in PSUs, or SSI not in any PSU). With only a portion of the augmented sample released for use, we then adjusted the initial weights for the sample released for the survey. Therefore, we ended up with two sets of initial probability weights, one each for the clustered and unclustered samples. These sets of weights both summed to the number of successful workers in the population at Round 7: 101,698.

2. Dual-frame estimation

To obtain estimates from the cross-sectional SWS, we had to use a “dual sample design” that combined the clustered and unclustered samples while accounting for different follow-up rules. The design required the creation of composite weights for application to the combined samples. As noted, if the central office could not resolve the final status of a sample member by phone in the unclustered sample, the office determined that the individual was “not selected for field follow-up” and thus undertook no further efforts to resolve the case. However, if the central office could not resolve the status of a sample member by phone in the clustered sample, the case went to the field for additional data collection efforts (field follow-up). Because the two samples represent the same population, we form a composite weight when combining them, multiplying the weights for one sample by \( \lambda \) and the weights for the other sample by \( 1 - \lambda \), where \( \lambda \) is between 0 and 1. The following section describes this in more detail.

a. Conceptual framework for composite weights

Consider a survey estimate, \( \text{Est}(Y) \), such as the proportion of the sample who are currently working, that is computed using information from two independent samples from the same population, such as the clustered and unclustered samples described above. To compute this estimate, the two samples may not be combined without first adjusting the weights because the clustered and unclustered samples in the SWS represent the same target population among successful workers. Separate estimates may be computed from each sample, within each stratum and extract, and then combined by using the following equation:

\[
\text{Est}(Y) = \lambda Y_c + (1 - \lambda) Y_u
\]

where \( Y_c \) is the survey estimate from the clustered sample, \( Y_u \) is the survey estimate from the unclustered sample, and \( \lambda \) is an arbitrary constant between 0 and 1. For example, for successful workers in the first extract in the SSDI only stratum of the Round 7 data, the clustered sample accounted for 252 respondents and the unclustered sample for 76 respondents. The estimates to be combined are the proportion of the 252 in the clustered sample who are currently working and the proportion of the 76 in the unclustered sample who are currently working. In practice, the calculation is more complicated because we need to account for the different rules used in the two samples for following up with nonrespondents or unlocated
sample members (discussed later). For the sampling variance, $V(Y)$, the estimate is computed with the following equation:

$$V(Y) = \lambda^2 V(Y_c) + (1 - \lambda)^2 V(Y_u)$$

where $V(Y_c)$ is the sampling variance for the estimate from the clustered sample, and $V(Y_u)$ is the sampling variance for the estimate from the unclustered sample. Any value of $\lambda$ will result in an unbiased estimate of the survey estimate, but not necessarily an estimate with the minimum sampling variance. To compute the combined-sample estimate with minimum variance, we derive survey estimates by first computing the estimates for each sample, computing a value of $\lambda$ for each pair of estimates, and then combining the point and variance estimates. While this process produces minimum variance estimates, it is computer-intensive and results in some inconsistencies among estimates for percentages and proportions because of different values of $\lambda$ among levels of categorical variables. Therefore, since Round 2, we have used an approach that identifies a single lambda calculated by using sample sizes and design effects attributable to unequal weighting for the two samples. In particular, $\lambda$ acts as a weighting factor, with more weight given to the larger sample. The formula for $\lambda$ includes sample sizes adjusted for the design effect attributable to unequal weighting. The formula for $\lambda$ follows:

$$\lambda = \frac{n_c / \text{deff}_c}{n_c / \text{deff}_c + n_u / \text{deff}_u}$$

where $n_c$ and $n_u$ are the sample sizes of the clustered and unclustered central office–located samples, respectively, and $\text{deff}_c$ and $\text{deff}_u$ are the design effects attributable to unequal weighting for the clustered and unclustered central office–located samples, respectively.

A $\lambda$ value producing a sampling variance at its minimum value results in the shortest confidence interval and, by implication, the most precise point estimate. A value of lambda that minimizes the variance may be calculated as:

$$\lambda = V(Y_u) / [V(Y_c) + V(Y_u)]$$

In this case, the minimum variance is:

$$V(Y) = [V(Y_c) * V(Y_u)] / [V(Y_c) + V(Y_u)]$$

b. Application of composite weights to the cross-sectional SWS

The population of successful workers may be separated into two parts: the portion requiring field follow-up and the portion not requiring field follow-up. For the latter portion (that is, those whose status was resolved through the central office’s data collection efforts), both the clustered and unclustered samples are independent samples that can provide unbiased estimates for this subpopulation. However, for the portion of the target population requiring field follow-up (that is, those whose status was not resolved through the central office’s data collection efforts), only the clustered sample can provide unbiased estimates for this subpopulation because unclustered sample cases were not eligible for field follow-up, as it was not selected to be in the clustered sample.
For the subpopulation for which the final status was resolved by the central office, the clustered and unclustered samples may be combined by using the compositing method. The following equation computes the composite weight for each sample member in the clustered central office–resolved sample:

\[ WT = \lambda WT \] (clustered central office-resolved sample weight)

For units in the unclustered central office–resolved sample, the following equation computes the composite weight for each sample member in the unclustered central office–resolved sample:

\[ WT = (1 - \lambda) WT \] (unclustered central office-resolved sample weight)

Conversely, for the subpopulation of persons whose final status could not be resolved through the central office’s data collection efforts, only the clustered sample may be used. In this case, no combining is required, and we used the clustered weight directly as follows:

\[ WT = 1 WT \] (clustered field-resolved sample weight)

For unclustered cases that were part of the field-resolved population, the value of the weight is zero. We adjusted the sum of weights among field-resolved cases in the clustered sample so that the total sum matched the original total sum. Given that the weights for each subpopulation (the field-resolved population and the central office-resolved subpopulation) sum to the total number of individuals in each subpopulation, the two subpopulations may simply be combined to form the entire target population.

3. Nonresponse adjustment

As with the Representative Beneficiary Survey, we adjusted the base weights in two stages for: (1) sample members who could not be located and (2) sample members who were located and refused to respond. For the SWS, we calculated the nonresponse adjustments (including both the location and cooperation adjustments) by using weighted logistic propensity models, then using the inverse of the propensity score as the weighting adjustment. We treated the extracts (in addition to beneficiary title) as strata in weighting, and calculated the nonresponse adjustments across extracts. We applied the nonresponse adjustments to the composite weights for the clustered and unclustered samples. The result was two weight adjustments, including a location adjustment and a cooperation adjustment, by using logistic propensity models. The models were fitted in the same way as the adjustment models for the RBS (Section B.2 of this chapter).

The main factors or attributes that affected our ability to locate and interview successful worker sample members included similar factors as those used to locate and interview RBS members: personal characteristics of the sample member (race, ethnicity, gender, and age), identity of the payee with respect to the beneficiary, whether the beneficiary and the applicant for benefits lived in the same location, the number of addresses or phone numbers in the SSA files for the beneficiary, beneficiary’s living situation, the beneficiary’s “title” (SSI only, SSDI only, or concurrent), the beneficiary’s primary disability, and

\[ ^{82} \] In the software that accounted for the sample design, the strata must be identified. The variable that did this was defined according to beneficiary title (SSDI only and SSI) and extract.
geographic characteristics, including attributes of the county where the beneficiary resides. Unique to the SWS, extract was also a key factor. In subsequent sections, we describe how the specific covariates for each of the weight adjustments varied.

a. Coding of survey dispositions

The scheme used to code respondents included the four general categories described in Section B.2: eligible respondents, ineligible respondents, located nonrespondents, and unlocated sample members.

b. Response rates

The 41.0 percent response rate for the cross-sectional SWS is the product of the weighted location rate and weighted completion rate among located sample members. The weighted location rate is 87.9 percent, and the weighted cooperation rate (the weighted completion rate among located sample members) is 46.4 percent. Analogous to the RBS, we used the weighted rates because the sampling weights vary substantially across the sampling strata, and the weighted rates better reflect the potential for nonresponse bias.

c. Factors related to location, cooperation, and response

In Table VI.6, we provide information on selected factors associated with locating a sample member and the factors associated with the response among located sample members. The table includes unweighted counts of all sample members, counts of located sample members, and counts of sample members from whom we obtained a completed interview or whom we deemed ineligible. The table also includes the weighted location rate (base weight), weighted cooperation rate among located sample members (location-adjusted base weight), and weighted overall response rate for these factors (base weight).
### Table VI.6. Weighted location, cooperation, and response rates for Successful Worker Sample, by selected characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Sample Count</th>
<th>Located sample Count</th>
<th>Location rate</th>
<th>Response among located sample Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>8,590</td>
<td>6,486</td>
<td>87.9</td>
<td>3,327</td>
<td>46.4</td>
<td>41.0</td>
</tr>
<tr>
<td>Extract</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extract 1</td>
<td>1,757</td>
<td>1,391</td>
<td>92.9</td>
<td>796</td>
<td>52.7</td>
<td>48.9</td>
</tr>
<tr>
<td>Extract 2</td>
<td>1,438</td>
<td>1,158</td>
<td>90.9</td>
<td>647</td>
<td>52.2</td>
<td>47.5</td>
</tr>
<tr>
<td>Extract 3</td>
<td>1,327</td>
<td>1,038</td>
<td>85.0</td>
<td>483</td>
<td>44.8</td>
<td>38.2</td>
</tr>
<tr>
<td>Extract 4</td>
<td>1,043</td>
<td>711</td>
<td>88.1</td>
<td>381</td>
<td>44.3</td>
<td>39.2</td>
</tr>
<tr>
<td>Extract 5</td>
<td>1,450</td>
<td>1,055</td>
<td>83.6</td>
<td>473</td>
<td>40.1</td>
<td>33.7</td>
</tr>
<tr>
<td>Extract 6</td>
<td>998</td>
<td>712</td>
<td>85.5</td>
<td>351</td>
<td>44.7</td>
<td>38.3</td>
</tr>
<tr>
<td>Extract 7</td>
<td>577</td>
<td>421</td>
<td>88.0</td>
<td>196</td>
<td>42.1</td>
<td>37.1</td>
</tr>
<tr>
<td>SSI only, SSDI only, or both SSI and SSDI</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSI only</td>
<td>2,397</td>
<td>1,817</td>
<td>89.2</td>
<td>937</td>
<td>47.2</td>
<td>42.3</td>
</tr>
<tr>
<td>SSDI only</td>
<td>4,221</td>
<td>3,192</td>
<td>86.6</td>
<td>1,644</td>
<td>46.5</td>
<td>40.5</td>
</tr>
<tr>
<td>Both SSI and SSDI</td>
<td>1,972</td>
<td>1,477</td>
<td>89.6</td>
<td>746</td>
<td>45.5</td>
<td>40.9</td>
</tr>
<tr>
<td>Constructed disability category</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deaf</td>
<td>181</td>
<td>122</td>
<td>86.9</td>
<td>50</td>
<td>34.4</td>
<td>30.1</td>
</tr>
<tr>
<td>Cognitive disability</td>
<td>1,251</td>
<td>914</td>
<td>87.3</td>
<td>427</td>
<td>43.9</td>
<td>38.4</td>
</tr>
<tr>
<td>Mental illness</td>
<td>3,106</td>
<td>2,348</td>
<td>88.5</td>
<td>1,184</td>
<td>45.5</td>
<td>40.5</td>
</tr>
<tr>
<td>Physical disability</td>
<td>3,966</td>
<td>3,039</td>
<td>87.8</td>
<td>1,633</td>
<td>48.4</td>
<td>42.7</td>
</tr>
<tr>
<td>Unknown</td>
<td>86</td>
<td>63</td>
<td>84.6</td>
<td>33</td>
<td>46.6</td>
<td>39.1</td>
</tr>
<tr>
<td>Beneficiary’s age (four categories)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 to 29</td>
<td>2,078</td>
<td>1,514</td>
<td>86.5</td>
<td>695</td>
<td>41.4</td>
<td>36.1</td>
</tr>
<tr>
<td>30 to 39</td>
<td>2,075</td>
<td>1,545</td>
<td>87.8</td>
<td>751</td>
<td>43.8</td>
<td>38.7</td>
</tr>
<tr>
<td>40 to 49</td>
<td>1,864</td>
<td>1,386</td>
<td>87.7</td>
<td>717</td>
<td>46.7</td>
<td>41.1</td>
</tr>
<tr>
<td>50 and older</td>
<td>2,573</td>
<td>2,041</td>
<td>89.2</td>
<td>1,164</td>
<td>52.0</td>
<td>46.6</td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>4,694</td>
<td>3,535</td>
<td>87.7</td>
<td>1,750</td>
<td>44.3</td>
<td>39.1</td>
</tr>
<tr>
<td>Female</td>
<td>3,896</td>
<td>2,951</td>
<td>88.2</td>
<td>1,577</td>
<td>49.1</td>
<td>43.5</td>
</tr>
<tr>
<td>Ethnicity (Hispanic or not)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>349</td>
<td>254</td>
<td>88.1</td>
<td>109</td>
<td>38.0</td>
<td>33.8</td>
</tr>
<tr>
<td>Non-Hispanic or unknown</td>
<td>8,241</td>
<td>6,232</td>
<td>87.9</td>
<td>3,218</td>
<td>46.7</td>
<td>41.3</td>
</tr>
<tr>
<td>Race</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic White</td>
<td>3,747</td>
<td>2,785</td>
<td>87.0</td>
<td>1,410</td>
<td>45.6</td>
<td>39.8</td>
</tr>
<tr>
<td>Non-Hispanic Black</td>
<td>2,490</td>
<td>1,940</td>
<td>90.0</td>
<td>1,040</td>
<td>49.6</td>
<td>44.7</td>
</tr>
<tr>
<td>Hispanic</td>
<td>349</td>
<td>254</td>
<td>88.1</td>
<td>109</td>
<td>38.0</td>
<td>33.8</td>
</tr>
</tbody>
</table>
Table VI.6 (continued)

<table>
<thead>
<tr>
<th>Location</th>
<th>Sample</th>
<th>Located sample</th>
<th>Response among located sample</th>
<th>Overall respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Count</td>
<td>Location rate</td>
<td>Count</td>
</tr>
<tr>
<td>Asian American, Pacific Island American</td>
<td>73</td>
<td>52</td>
<td>80.0</td>
<td>22</td>
</tr>
<tr>
<td>American Indian, or Alaska Native</td>
<td>20</td>
<td>12</td>
<td>87.5</td>
<td>8</td>
</tr>
<tr>
<td>Other or unknown</td>
<td>1,911</td>
<td>1,443</td>
<td>87.5</td>
<td>738</td>
</tr>
<tr>
<td>Living situation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Living alone</td>
<td>4,096</td>
<td>3,096</td>
<td>89.8</td>
<td>1,580</td>
</tr>
<tr>
<td>Living with others</td>
<td>237</td>
<td>173</td>
<td>84.6</td>
<td>93</td>
</tr>
<tr>
<td>Living with parents</td>
<td>28</td>
<td>17</td>
<td>70.3</td>
<td>6</td>
</tr>
<tr>
<td>In institution or unknown</td>
<td>4,229</td>
<td>3,200</td>
<td>86.6</td>
<td>1,648</td>
</tr>
<tr>
<td>Did the applicant for benefits live in the same ZIP code as the beneficiary?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>535</td>
<td>412</td>
<td>89.6</td>
<td>192</td>
</tr>
<tr>
<td>Yes</td>
<td>3,765</td>
<td>2,837</td>
<td>89.7</td>
<td>1,470</td>
</tr>
<tr>
<td>No information</td>
<td>4,290</td>
<td>3,237</td>
<td>86.4</td>
<td>1,665</td>
</tr>
<tr>
<td>Identity of the payee with respect to the beneficiary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary received payments directly</td>
<td>537</td>
<td>419</td>
<td>89.7</td>
<td>228</td>
</tr>
<tr>
<td>Payee is a family member</td>
<td>1,606</td>
<td>1,206</td>
<td>87.8</td>
<td>565</td>
</tr>
<tr>
<td>Payee is an institution</td>
<td>129</td>
<td>100</td>
<td>93.0</td>
<td>42</td>
</tr>
<tr>
<td>Other</td>
<td>117</td>
<td>82</td>
<td>87.7</td>
<td>32</td>
</tr>
<tr>
<td>Unknown</td>
<td>6,201</td>
<td>4,679</td>
<td>87.7</td>
<td>2,460</td>
</tr>
<tr>
<td>Number of phone numbers in file</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zero</td>
<td>553</td>
<td>435</td>
<td>88.4</td>
<td>250</td>
</tr>
<tr>
<td>One</td>
<td>1,271</td>
<td>921</td>
<td>83.2</td>
<td>485</td>
</tr>
<tr>
<td>Two</td>
<td>2,160</td>
<td>1,597</td>
<td>86.5</td>
<td>793</td>
</tr>
<tr>
<td>Three</td>
<td>2,178</td>
<td>1,674</td>
<td>90.3</td>
<td>875</td>
</tr>
<tr>
<td>Four</td>
<td>1,742</td>
<td>1,327</td>
<td>89.0</td>
<td>661</td>
</tr>
<tr>
<td>Five or more</td>
<td>806</td>
<td>602</td>
<td>90.8</td>
<td>294</td>
</tr>
<tr>
<td>Number of addresses in file</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zero</td>
<td>547</td>
<td>435</td>
<td>89.3</td>
<td>249</td>
</tr>
<tr>
<td>One</td>
<td>1,530</td>
<td>1,156</td>
<td>87.8</td>
<td>599</td>
</tr>
<tr>
<td>Two</td>
<td>1,824</td>
<td>1,389</td>
<td>87.4</td>
<td>682</td>
</tr>
<tr>
<td>Three</td>
<td>2,227</td>
<td>1,678</td>
<td>87.3</td>
<td>853</td>
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<tr>
<td>Four</td>
<td>1,656</td>
<td>1,226</td>
<td>87.6</td>
<td>650</td>
</tr>
<tr>
<td>Five or more</td>
<td>806</td>
<td>602</td>
<td>90.8</td>
<td>294</td>
</tr>
<tr>
<td>Census region</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>1,840</td>
<td>1,356</td>
<td>87.8</td>
<td>753</td>
</tr>
<tr>
<td>Northeast</td>
<td>2,034</td>
<td>1,552</td>
<td>88.0</td>
<td>750</td>
</tr>
<tr>
<td>South</td>
<td>2,719</td>
<td>2,048</td>
<td>89.0</td>
<td>1,088</td>
</tr>
<tr>
<td>West</td>
<td>1,997</td>
<td>1,530</td>
<td>86.4</td>
<td>736</td>
</tr>
</tbody>
</table>
Table VI.6 (continued)

<table>
<thead>
<tr>
<th>Census division</th>
<th>Sample Count</th>
<th>Located sample Count</th>
<th>Location rate</th>
<th>Response among located sample Count</th>
<th>Cooperation rate</th>
<th>Overall response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>East North Central</td>
<td>1,320</td>
<td>971</td>
<td>87.5</td>
<td>535</td>
<td>50.5</td>
<td>44.5</td>
</tr>
<tr>
<td>East South Central</td>
<td>535</td>
<td>416</td>
<td>90.9</td>
<td>228</td>
<td>49.4</td>
<td>45.2</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>1,404</td>
<td>1,073</td>
<td>87.5</td>
<td>511</td>
<td>43.7</td>
<td>38.4</td>
</tr>
<tr>
<td>Mountain</td>
<td>442</td>
<td>333</td>
<td>85.6</td>
<td>180</td>
<td>44.5</td>
<td>38.2</td>
</tr>
<tr>
<td>New England</td>
<td>630</td>
<td>479</td>
<td>89.1</td>
<td>239</td>
<td>46.0</td>
<td>41.1</td>
</tr>
<tr>
<td>Pacific</td>
<td>1,555</td>
<td>1,197</td>
<td>86.8</td>
<td>556</td>
<td>41.5</td>
<td>36.4</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>1,306</td>
<td>977</td>
<td>89.3</td>
<td>509</td>
<td>47.4</td>
<td>42.3</td>
</tr>
<tr>
<td>West North Central</td>
<td>520</td>
<td>385</td>
<td>88.6</td>
<td>218</td>
<td>47.4</td>
<td>42.3</td>
</tr>
<tr>
<td>West South Central</td>
<td>878</td>
<td>655</td>
<td>87.3</td>
<td>351</td>
<td>49.4</td>
<td>43.2</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Metropolitan status of county</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Metropolitan areas with population of 1 million or more</td>
<td>5,123</td>
<td>3,938</td>
<td>87.6</td>
<td>1,980</td>
<td>46.0</td>
<td>40.6</td>
</tr>
<tr>
<td>Metropolitan areas with population of 250,000 to 999,999</td>
<td>2,037</td>
<td>1,570</td>
<td>89.0</td>
<td>813</td>
<td>46.6</td>
<td>41.6</td>
</tr>
<tr>
<td>Metropolitan areas with population of fewer than 250,000</td>
<td>719</td>
<td>506</td>
<td>84.7</td>
<td>281</td>
<td>49.7</td>
<td>42.3</td>
</tr>
<tr>
<td>Nonmetropolitan areas adjacent to large metropolitan areas</td>
<td>207</td>
<td>154</td>
<td>90.3</td>
<td>84</td>
<td>45.1</td>
<td>41.0</td>
</tr>
<tr>
<td>Nonmetropolitan areas adjacent to medium or small metropolitan areas</td>
<td>320</td>
<td>213</td>
<td>92.4</td>
<td>115</td>
<td>46.5</td>
<td>43.0</td>
</tr>
<tr>
<td>Nonmetropolitan areas not adjacent to metropolitan areas</td>
<td>184</td>
<td>105</td>
<td>87.5</td>
<td>54</td>
<td>40.4</td>
<td>35.6</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>County with low education</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>1,144</td>
<td>873</td>
<td>87.4</td>
<td>433</td>
<td>45.5</td>
<td>39.9</td>
</tr>
<tr>
<td>No</td>
<td>7,446</td>
<td>5,613</td>
<td>88.0</td>
<td>2,894</td>
<td>46.6</td>
<td>41.2</td>
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</table>

<table>
<thead>
<tr>
<th>County with recreation-based economy</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>668</td>
<td>480</td>
<td>85.2</td>
<td>222</td>
<td>39.6</td>
<td>33.6</td>
</tr>
<tr>
<td>No</td>
<td>7,922</td>
<td>6,006</td>
<td>88.2</td>
<td>3,105</td>
<td>47.1</td>
<td>41.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Population loss county</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>397</td>
<td>244</td>
<td>86.1</td>
<td>153</td>
<td>58.2</td>
<td>50.5</td>
</tr>
<tr>
<td>No</td>
<td>8,193</td>
<td>6,242</td>
<td>88.0</td>
<td>3,174</td>
<td>45.9</td>
<td>40.6</td>
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</table>

<table>
<thead>
<tr>
<th>Retirement destination county</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>1,046</td>
<td>783</td>
<td>85.9</td>
<td>403</td>
<td>46.7</td>
<td>39.9</td>
</tr>
<tr>
<td>No</td>
<td>7,544</td>
<td>5,703</td>
<td>88.2</td>
<td>2,924</td>
<td>46.4</td>
<td>41.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>County with manufacturing-dependent economy</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>640</td>
<td>463</td>
<td>85.7</td>
<td>247</td>
<td>48.4</td>
<td>41.9</td>
</tr>
<tr>
<td>No</td>
<td>7,950</td>
<td>6,023</td>
<td>88.1</td>
<td>3,080</td>
<td>46.3</td>
<td>41.0</td>
</tr>
<tr>
<td>Table VI.6 (continued)</td>
<td>Sample</td>
<td>Located sample</td>
<td>Response among located sample</td>
<td>Overall respondents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>--------</td>
<td>----------------</td>
<td>------------------------------</td>
<td>---------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Count</td>
<td>Count</td>
<td>Location rate</td>
<td>Count</td>
<td>Cooperation rate</td>
<td>Response rate</td>
</tr>
<tr>
<td>County with nonspecialized-dependent economy</td>
<td>Yes</td>
<td>6,021</td>
<td>4,606</td>
<td>88.5</td>
<td>2,366</td>
<td>47.0</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>2,569</td>
<td>1,880</td>
<td>86.7</td>
<td>961</td>
<td>45.4</td>
</tr>
<tr>
<td>County with government-dependent economy</td>
<td>Yes</td>
<td>1,004</td>
<td>750</td>
<td>89.1</td>
<td>401</td>
<td>48.0</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>7,586</td>
<td>5,736</td>
<td>87.8</td>
<td>2,926</td>
<td>46.2</td>
</tr>
<tr>
<td>High poverty county</td>
<td>Yes</td>
<td>1,007</td>
<td>732</td>
<td>89.3</td>
<td>400</td>
<td>51.9</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>7,583</td>
<td>5,754</td>
<td>87.8</td>
<td>2,927</td>
<td>45.8</td>
</tr>
<tr>
<td>County with high level of child poverty</td>
<td>Yes</td>
<td>1,204</td>
<td>900</td>
<td>89.2</td>
<td>488</td>
<td>50.6</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>7,386</td>
<td>5,586</td>
<td>87.7</td>
<td>2,839</td>
<td>45.9</td>
</tr>
<tr>
<td>Percentage of dwellings that are owner-occupied in county</td>
<td>Less than 60.8 percent owner-occupied</td>
<td>2,805</td>
<td>2,145</td>
<td>88.5</td>
<td>1,080</td>
<td>46.1</td>
</tr>
<tr>
<td></td>
<td>Percent owner-occupied between 60.8 percent and 66.2 percent</td>
<td>2,480</td>
<td>1,960</td>
<td>88.5</td>
<td>1,037</td>
<td>48.1</td>
</tr>
<tr>
<td></td>
<td>Percent owner-occupied exceeds 66.2 percent</td>
<td>3,305</td>
<td>2,381</td>
<td>87.2</td>
<td>1,210</td>
<td>45.6</td>
</tr>
<tr>
<td>County racial/ethnic profile</td>
<td>At least 20 percent American Indian</td>
<td>11</td>
<td>5</td>
<td>100.0a</td>
<td>3</td>
<td>57.9</td>
</tr>
<tr>
<td></td>
<td>County with at least 90% non-Hispanic white population</td>
<td>560</td>
<td>361</td>
<td>86.5</td>
<td>203</td>
<td>47.8</td>
</tr>
<tr>
<td></td>
<td>County with plurality or majority Hispanic population</td>
<td>849</td>
<td>629</td>
<td>87.1</td>
<td>307</td>
<td>44.0</td>
</tr>
<tr>
<td></td>
<td>County with majority but fewer than 90% non-Hispanic white population</td>
<td>3,511</td>
<td>2,694</td>
<td>88.0</td>
<td>1,346</td>
<td>44.6</td>
</tr>
<tr>
<td></td>
<td>County with a racially/ethnically mixed population, no majority group</td>
<td>3,291</td>
<td>2,520</td>
<td>88.1</td>
<td>1,321</td>
<td>48.7</td>
</tr>
<tr>
<td></td>
<td>County with plurality or majority non-Hispanic black population</td>
<td>368</td>
<td>277</td>
<td>89.8</td>
<td>147</td>
<td>50.8</td>
</tr>
<tr>
<td>DCF earnings category, first breakdownb</td>
<td>Gross annual DCF earnings above $30,000 in 2017 or 2018</td>
<td>1,966</td>
<td>1,469</td>
<td>87.4</td>
<td>673</td>
<td>40.4</td>
</tr>
<tr>
<td></td>
<td>Gross annual DCF earnings above $20,000 in 2017 or 2018</td>
<td>2,063</td>
<td>1,529</td>
<td>86.9</td>
<td>774</td>
<td>46.5</td>
</tr>
<tr>
<td></td>
<td>Gross annual DCF earnings above $15,000 in 2017 or 2018</td>
<td>1,643</td>
<td>1,272</td>
<td>89.0</td>
<td>685</td>
<td>49.1</td>
</tr>
</tbody>
</table>
### Table VI.6 (continued)

<table>
<thead>
<tr>
<th></th>
<th>Sample</th>
<th>Located sample</th>
<th>Response among located sample</th>
<th>Overall respondents</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Count</td>
<td>Location rate</td>
<td>Count</td>
<td>Cooperation rate</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $7,000 in 2017 or 2018</td>
<td>1,849</td>
<td>1,416</td>
<td>89.9</td>
<td>750</td>
<td>48.0</td>
</tr>
<tr>
<td>Beneficiary with gross annual DCF earnings below $7,000 in 2017 and 2018</td>
<td>1,069</td>
<td>800</td>
<td>85.9</td>
<td>445</td>
<td>50.2</td>
</tr>
<tr>
<td><strong>DCF earnings category, second breakdown</strong>&lt;sup&gt;b&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monthly DCF earnings above SGA&lt;sup&gt;c&lt;/sup&gt; for three consecutive months in 2017 or 2018</td>
<td>7,355</td>
<td>5,563</td>
<td>88.1</td>
<td>2,845</td>
<td>46.3</td>
</tr>
<tr>
<td>Gross annual DCF earnings above three times SGA in 2017 or 2018</td>
<td>611</td>
<td>465</td>
<td>89.0</td>
<td>233</td>
<td>46.1</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $0 in 2017 or 2018</td>
<td>301</td>
<td>215</td>
<td>82.6</td>
<td>128</td>
<td>53.5</td>
</tr>
<tr>
<td>No annual DCF earnings in 2017 or 2018</td>
<td>323</td>
<td>243</td>
<td>87.3</td>
<td>121</td>
<td>43.9</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

<sup>a</sup>All six non-complete cases had zero weight.

<sup>b</sup>The DCF earnings categories are subdivided sequentially. In other words, the second category excludes those who were in the first category; the third excludes those that are in the first or second category, and so on.

<sup>c</sup>Non-blind substantial gainful activity, or $1,170 in 2017, $1,180 in 2018, and $1,220 in 2019.

DCF = Disability Control File.

d. Propensity models for weight adjustments

The weight adjustments used in the cross-sectional SWS were based on predicted propensities from a logistic regression model. The model-fitting process was similar to that used in the RBS. We identified candidate interactions using CHAID, identified variables to investigate further using the STEPWISE procedure in SAS, then proceeded to create parsimonious models using SURVEYLOGISTIC in SAS, and the RLOGIST procedure in SUDAAN. As indicated earlier, we calculated the adjustments by taking the inverse of the predicted location and cooperation propensities. The adjusted weight for each sample case is the product of the initial sampling weight and the adjustment factor, trimmed to ensure that the impact of outlier weights is minimized.

Tables VI.7 and VI.8 provide a summary of the variables that were included in the final location and cooperation propensity models. (Appendix J details how the levels were collapsed for each model.)
**Table VI.7. Location logistic propensity model: Cross-sectional Successful Worker Sample**

<table>
<thead>
<tr>
<th>Factors in Location Model</th>
<th>Main Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTRACT</td>
<td></td>
</tr>
<tr>
<td>AGECAT (AGE CATEGORY)</td>
<td></td>
</tr>
<tr>
<td>BENEFICIARY TITLE (BENEFICIARY OF SSDI, SSI, OR BOTH)</td>
<td></td>
</tr>
<tr>
<td>LIVING SITUATION</td>
<td></td>
</tr>
<tr>
<td>MOVE (CATEGORIZED COUNT OF ADDRESSES IN SSA FILES)</td>
<td></td>
</tr>
<tr>
<td>PHONE (CATEGORIZED COUNT OF PHONE NUMBERS IN SSA FILES)</td>
<td></td>
</tr>
<tr>
<td>PDZIPSAME (WHETHER APPLICANT FOR BENEFITS LIVES IN SAME ZIP CODE AS BENEFICIARY)</td>
<td></td>
</tr>
<tr>
<td>RACE</td>
<td></td>
</tr>
<tr>
<td>CNTYNONSP (NONSPECIFIC-DEPENDENT ECONOMY, COUNTY)</td>
<td></td>
</tr>
<tr>
<td>CNTYGOV (GOVERNMENT DEPENDENT ECONOMY, COUNTY)</td>
<td></td>
</tr>
<tr>
<td>METRO (METROPOLITAN STATUS OF COUNTY)</td>
<td></td>
</tr>
<tr>
<td>EARNINGS CATEGORY</td>
<td></td>
</tr>
<tr>
<td>Two-Factor Interactions</td>
<td></td>
</tr>
<tr>
<td>LIVING SITUATION * MOVE</td>
<td></td>
</tr>
<tr>
<td>RACE * MOVE</td>
<td></td>
</tr>
</tbody>
</table>

**Table VI.8. Cooperation logistic propensity model: Successful Worker Sample**

<table>
<thead>
<tr>
<th>Factors in Cooperation Model</th>
<th>Main Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTRACT</td>
<td></td>
</tr>
<tr>
<td>AGECAT (AGE CATEGORY)</td>
<td></td>
</tr>
<tr>
<td>DISABILITY (DISABILITY CATEGORY)</td>
<td></td>
</tr>
<tr>
<td>EARNINGS CATEGORY</td>
<td></td>
</tr>
<tr>
<td>PDZIPSAME (WHETHER APPLICANT FOR BENEFITS LIVES IN SAME ZIP CODE AS BENEFICIARY)</td>
<td></td>
</tr>
<tr>
<td>REPREPAYEE (IDENTITY OF PAYEE WITH RESPECT TO BENEFICIARY)</td>
<td></td>
</tr>
<tr>
<td>CNTYHPOV (COUNTY WITH HIGH LEVELS OF POVERTY)</td>
<td></td>
</tr>
<tr>
<td>ETHNICITY (HISPANIC OR NOT)</td>
<td></td>
</tr>
<tr>
<td>Two-Factor Interactions</td>
<td></td>
</tr>
<tr>
<td>EXTRACT * AGECAT</td>
<td></td>
</tr>
</tbody>
</table>

Source: NBS Round 7
The Cox-Snell R-squared is 0.033 (0.064 when rescaled to have a maximum of 1) for the location model and 0.025 (0.033 when rescaled) for the cooperation model. These values are similar to those observed for other response propensity modeling efforts that use logistic regression with design-based sampling weights. For the location model, 64.8 percent of pairs are concordant, 34.1 percent of pairs are discordant, and the p-value for the chi-square statistic from the Hosmer-Lemeshow (H-L) goodness-of-fit test is 0.931. These values indicate a reasonably good fit of the model to the data. The location adjustment from the model, calculated as the inverse of the location propensity score, ranged from 1.02 to 3.57. For the cooperation model, 57.6 percent of pairs are concordant and 40.5 percent of pairs are discordant. The p-value for the chi-squared statistic for the H-L goodness-of-fit test is 0.389 for the model. The cooperation adjustment from the model, which is calculated as the inverse of the cooperation propensity score, ranged from 1.34 to 5.81. The overall nonresponse adjustment (the product of the location adjustment and the cooperation adjustment) ranged from 1.52 to 6.54.

Among the variables used in the location and cooperation models shown in Tables VI.7 and VI.8, the number of levels used in the models is often fewer than the number of levels in Table VI.6; the levels collapsed for the models are described following the tables. The factors used in the location model included the following:

- **EXTRACT.** There are seven levels: (1)-(7) extract number.
- **MOVE.** Count of addresses in SSA files. There are three levels: (1) one address on file; (2) two addresses on file; (3) no addresses or three or more addresses on file.
- **PHONE.** Count of phone numbers in SSA files. There are five levels: Levels 1 through 4 indicate one, two, three, or four phone numbers on file, respectively, and Level 5 indicates no phone numbers or five or more phone numbers on file.
- **AGECAT.** Beneficiary’s age category. There are two levels: (1) age 18 to 29, (2) age 30 or older.
- **SSI_SSDI.** Beneficiary title. There are two levels: (1) recipient of SSDI only, (2) recipient of SSI only or both SSI and SSDI.
- **LIVING.** Beneficiary’s living situation. There are two levels: (1) beneficiary lives alone; (2) beneficiary lives with others with parents, or in an institution or the information is unknown.
- **PDZIPSAME.** Whether the SSI beneficiary and the SSI applicant for benefits lived in the same zip code. There are three levels: (1) beneficiary and applicant lived in the same zip code, (2) beneficiary

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83 The Generalized Coefficient of Determination (Cox and Snell 1989) is a measure of the adequacy of the model, in which higher numbers indicate a greater difference between the likelihood of the model in question and the null model. The Max Rescaled R-Square scales this value to have a maximum of 1.

84 A pair of observations is discordant if a responding subject has a higher predicted value than a nonresponding subject, discordant if not, and tied if both members of the pair are respondents, nonrespondents, or have the same predicted values. It is desirable to have as many concordant pairs and as few discordant pairs as possible (Agresti 1996).

85 The Hosmer-Lemeshow Goodness-of-Fit Test is a test for goodness of fit of logistic regression models. Unlike the Pearson and deviance goodness-of-fit tests, it may be used to test goodness of fit even when some covariates are continuous (Hosmer and Lemeshow 1989). SUDAAN provides three options for calculating this test; we used the Satterthwaite option. See the SUDAAN User’s Manual for details. A hard copy manual is available for Version 9.0 (Research Triangle Institute, 2004), and an online version is available for Version 11.0 (see www.rti.org/sudaan).
and applicant lived in different zip codes, or (3) beneficiary was a recipient of SSDI only or the information is unknown.

- **RACE.** Race of beneficiary. There are two levels: (1) non-Hispanic Black and (2) not non-Hispanic Black or race is unknown.

- **METRO.** Metropolitan status of beneficiary’s county of residence. There are four levels: (1) beneficiary lived in a metropolitan area with a population of 250,000 or more; (2) beneficiary lived in a metropolitan area with a population of fewer than 250,000; (3) beneficiary lived in a nonmetropolitan area adjacent to a metropolitan area of 1 million people or more; and (4) beneficiary lived in a nonmetropolitan area adjacent to a metropolitan area of fewer than 1 million people, or beneficiary lived in a nonmetropolitan area not adjacent to a metropolitan area.

- **EARNCAT.** Earnings category from 2017 to 2018. There are four mutually exclusive levels: (1) gross annual earnings exceed SGA for three consecutive months at least once in 2017 or 2018; (2) not in Group 1, but gross annual earnings exceed three times SGA in 2017 or 2018; (3) not in Groups 1 or 2, but gross annual earnings exceed zero in 2017 or 2018; and (4) gross annual earnings are zero in both 2017 and 2018.

- **CNTYGOV.** County with government-dependent economy. There are two levels: (1) a county where 14 percent or more of average annual labor and proprietors’ earnings were derived from federal and state government, or 9 percent or more jobs were in federal or state government during 2010–2012, and (2) a county without this attribute.

- **CNTYNONSP.** County with nonspecialized-dependent economy. There are two levels: (1) the county’s economy is not dependent upon farming, mining, manufacturing, government, or services; and (2) the county’s economy is dependent upon farming, mining, manufacturing, government, or services, or there is no information.

The final selected model also included two interactions involving the above variables for locating sample members. In Table VI.7, we provide the main effects using the variable names listed above. In Appendix J, we provide parameter estimates and their standard errors. The factors used in the cooperation model included the following:

- **EXTRACT.** There are seven levels: (1)-(7) extract number.

- **AGECAT.** Beneficiary’s age category. There are four levels: (1) age 18 to 29, (2) age 30 to 39, (3) age 40 to 49, or (4) age 50 or older.

- **ETHNICITY.** Ethnicity of beneficiary. There are two levels: (1) Hispanic and (2) not Hispanic

- **DISABILITY.** Beneficiary’s disability category. There are two levels: (1) deafness, (2) hearing with other disability, or disability unknown.

- **REPREPAYEE.** The identity of the payee with respect to the beneficiary. There are two levels: (1) the beneficiary received payments himself or herself; (2) either a family member received benefits on behalf of the beneficiary, an institution received payments on behalf of the beneficiary, or identity of payee not known

- **PDZIPSAME.** Whether the SSI beneficiary and the SSI applicant for benefits lived in the same zip code. There are two levels: (1) beneficiary and applicant lived in the same zip code; (2) beneficiary and applicant lived in different zip codes, beneficiary received SSDI only, or the information is unknown.
• **EARNCAT.** Earnings category from 2017 to 2018. There are four mutually exclusive levels: (1) gross annual earnings exceed SGA for three consecutive months at least once in 2017 or 2018; (2) not in Group 1, but gross annual earnings exceed three times SGA in 2017 or 2018; (3) not in Groups 1 or 2, but gross annual earnings exceed zero in 2017 or 2018; and (4) gross annual earnings are zero in both 2017 and 2018.

• **CNTYHPOV.** County with high levels of poverty. There are two levels: (1) county where 20 percent or more of its residents were poor, based on the American Community Survey’s five-year estimates for 2008 to 2012, and (2) county does not have this attribute.

The model also included a single interaction among two of these variables for responding sample members, as noted in Table VI.8. In Table VI.8, we provide the main effects using the variable names. In Appendix J, we provide an expanded form of Table VI.8, with parameter estimates and their standard errors.

4. Post-stratification and trimming

We defined 14 trimming classes for each model based on beneficiary title (SSDI only and SSI) and the seven extracts. We trimmed seven weights within these 14 trimming classes. In Table VI.9, we present the number of weights trimmed as well as the design effects attributable to unequal weighting before and after trimming for each trimming class, before post-stratification.

<table>
<thead>
<tr>
<th>Extract</th>
<th>Sampling stratum</th>
<th>Number of cases trimmed</th>
<th>Design effect attributable to unequal weights before trimming</th>
<th>Design effect attributable to unequal weights after trimming</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SSDI only</td>
<td>1</td>
<td>1.19</td>
<td>1.19</td>
</tr>
<tr>
<td>1</td>
<td>SSI</td>
<td>2</td>
<td>1.24</td>
<td>1.23</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1.25</td>
<td>1.25 (maximum)</td>
</tr>
<tr>
<td>2</td>
<td>SSDI only</td>
<td>0</td>
<td>1.19</td>
<td>1.19</td>
</tr>
<tr>
<td>2</td>
<td>SSI</td>
<td>0</td>
<td>1.24</td>
<td>1.24</td>
</tr>
<tr>
<td>3</td>
<td>SSDI only</td>
<td>0</td>
<td>1.24</td>
<td>1.24</td>
</tr>
<tr>
<td>3</td>
<td>SSI</td>
<td>0</td>
<td>1.41 (maximum)</td>
<td>1.34</td>
</tr>
<tr>
<td>4</td>
<td>SSDI only</td>
<td>3</td>
<td>1.17 (maximum)</td>
<td>1.17</td>
</tr>
<tr>
<td>4</td>
<td>SSI</td>
<td>0</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td>5</td>
<td>SSDI only</td>
<td>0</td>
<td>1.15</td>
<td>1.15</td>
</tr>
<tr>
<td>5</td>
<td>SSI</td>
<td>0</td>
<td>1.37</td>
<td>1.37 (maximum)</td>
</tr>
<tr>
<td>6</td>
<td>SSDI only</td>
<td>0</td>
<td>1.16</td>
<td>1.16</td>
</tr>
<tr>
<td>6</td>
<td>SSI</td>
<td>0</td>
<td>1.34</td>
<td>1.16</td>
</tr>
<tr>
<td>7</td>
<td>SSDI only</td>
<td>1</td>
<td>1.19</td>
<td>1.19</td>
</tr>
<tr>
<td>7</td>
<td>SSI</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Design effect attributable to unequal weights = \(\frac{n}{\sum w^2} / \left(\sum w\right)^2\).

After the nonresponse adjustment and trimming, we post-stratified the weights to the population totals for four variables (1) extract; (2) beneficiary title (SSI only, SSDI only, and both SSI and SSDI); (3) four age
categories (18 to 29, 30 to 39, 40 to 49, and 50 or over); and DCF earnings (five categories derived from DCF earnings in 2017 and 2018—the categorization of earnings listed under “first breakdown” in Table VI.6). We found no extreme weights after post-stratification.

As noted earlier, this post-stratification was provisional; the weights were post-stratified to totals in the provisional population from which the sample was drawn. We will conduct another final post-stratification after a period of time where most of the earnings will be recorded in the DCF.

D. Longitudinal SWS

The Round 7 longitudinal sample consists of the Round 6 cross-sectional SWS respondents who indicated that they were working at the time of the Round 6 interview. Table VI.10 presents the final sample sizes for the longitudinal SWS. This table shows a final sample of 2,404 cases from the Round 6 clustered sample and 1,308 from the Round 6 unclustered sample, for a total of 3,712 sample cases, of which 108 were selected for both the clustered and unclustered samples in Round 6 (for a total of 216 records). We do not know what proportion of the 81,622 estimated eligible successful workers in the Round 6 provisional sample frame were working at the time of the Round 6 interview, but we have an estimate based on our responding sample, which is shown in Table VI.10 (65,870.8).86 For the sake of brevity, Table VI.10 does not break out results by Round 6 extract or by whether the unclustered case was in a PSU in Round 6, as these stratification variables are not analytically useful. Moreover, data collection for all Round 6 extraction dates occurred simultaneously in Round 7. Theoretically, the same follow-up rules for the clustered and unclustered samples were used in Round 7 as were used in Round 6;87 however, we followed up clustered cases in the field if they also happened to be sampled for the Round 7 RBS or were in the clustered sample for the Round 7 cross-sectional SWS.

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Weighted total</th>
<th>Clustered sample in Round 6</th>
<th>Unclustered sample in Round 6</th>
<th>Total sample in Round 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSDI only</td>
<td>33,675.7</td>
<td>1,180</td>
<td>683</td>
<td>1,863</td>
</tr>
<tr>
<td>All SSI</td>
<td>32,195.1</td>
<td>1,224</td>
<td>625</td>
<td>1,849</td>
</tr>
<tr>
<td>Total</td>
<td>65,870.8</td>
<td>2,404</td>
<td>1,308</td>
<td>3,712</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

86 After we conducted a final extract of Round 6 earnings data in November 2020, we determined that the estimated number of eligible successful workers in Round 6 was actually 265,514; the discrepancy was due to a lag in recording earnings for many successful workers. We will need to redo the longitudinal weights to account for this new total and obtain a new estimate of successful workers who were eligible for the longitudinal population.

87 In practice, to save resources, longitudinal SWS cases that should have been sent to the field in Round 7 (clustered in Round 6) were often not.
1. **Base sampling weights**

   a. **Initial probability weights**

   We used the final weights for the Round 6 SWS as the “initial probability weights” for the Round 7 longitudinal SWS. The 3,712 cases in the longitudinal sample with positive weights included 108 duplicates (216 sample cases) across the clustered and unclustered samples. For an additional 20 duplicates (40 sample cases), the Round 6 completed interviews in the clustered sample were obtained due to field efforts. Therefore, the 20 cases in the unclustered sample were represented by the clustered sample, and their Round 6 cross-sectional unclustered sample weight set to zero. For this reason, these 20 cases were not included among the 3,712 longitudinal sample cases.

2. **Base weights incorporating dual sample design**

   The Round 6 cross-sectional final weights already accounted for the dual sample design, so it was not necessary to recreate the composite weights. However, because of different data collection dispositions in Round 7 than in Round 6, we needed to account for the different field follow-up rules between the clustered and unclustered samples (rules that were supposed to be consistent between the two rounds). 88

   In particular, for sample members the population that did not need field operations to resolve in Round 7 (cases completed by phone), we used the weights as they were, regardless of clustered or unclustered status, and regardless of whether completed by phone or field in Round 6 for clustered. However, if sample members came from the population that needed field operations in Round 7 to resolve (cases not completed by phone), we estimated the size of this population by summing the weights of the Round 7 field-resolution cases (cases not able to be completed by phone). We then set the weights of the Round 6 unclustered sample in this population to zero, and we ratio-adjusted the weight of the clustered sample to match this estimated total. There were 42 such unclustered sample cases with weights set to zero. Therefore, the number of longitudinal SWS sample members with nonzero base weights was 3,670 (3,712 − 42).

3. **Nonresponse adjustment**

   As indicated earlier, when calculating the nonresponse adjustments, we separated the Round 7 longitudinal SWS into two groups, depending on whether the sample member was still an SSI or SSDI beneficiary as of June 30, 2018. We did this for two reasons: (1) there are likely important differences between the longitudinal sample members who were or were not part of the Round 7 beneficiary frame, and (2) for members who were part of the Round 7 beneficiary frame, we could use auxiliary variables from that frame. However, for sample members who were not part of that frame, we could only use Round 7 geographically based information. All other covariates had to come from the Round 6 frame.

   For both groups, we adjusted the base weights in two stages for (1) sample members who could not be located and (2) sample members who were located but refused to respond. The group in the Round 7 beneficiary frame consisted of 3,182 of 3,712 longitudinal sample members (or 3,147 of 3,670 with positive base weights). We used weighted logistic propensity models to calculate the location adjustment.

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88 We assumed that all clustered longitudinal cases would use the same field follow-up rules in Round 7, even though in practice (in all but three cases) we did not use field follow-up for clustered cases if they were not also sampled in Round 7 as part of the RBS or the clustered cross-sectional SWS.
for all members of this group and the cooperation adjustments for located members of this group. But for those who were not in the Round 7 beneficiary frame (530 of 3,712 sample members, or 523 with positive base weights), we calculated the adjustments using simple weighting classes due to the small sample size and more limited information available.

For the 3,147 longitudinal sample cases with positive base weights that were part of the Round 7 beneficiary frame, we fit the models in the same way as the adjustment models for the RBS (Section B.2 of this chapter) and cross-sectional SWS (Section C.2 of this chapter). For the remaining 523 longitudinal cases with positive base weights that were not part of the Round 7 beneficiary frame, we fit cross-tabulations and stepwise logistic regression models to identify factors to use in the weighting classes.

The main factors or attributes that affected our ability to locate and interview longitudinal SWS members of both types included similar factors to those used to locate and interview RBS and cross-sectional SWS members: personal characteristics of the sample member (race and age); whether the beneficiary and applicant for benefits lived in the same location; the number of addresses or phone numbers in the beneficiary’s SSA files; the beneficiary’s living situation; the beneficiary’s “title” (SSI only, SSDI only, or concurrent); the beneficiary’s primary disability; and geographic characteristics, including attributes of the county where the beneficiary lives. As with the cross-sectional SWS, extract was also a key factor. For the longitudinal successful workers who were not part of the Round 7 beneficiary frame, variables that were only available from the Round 7 frame had to come from the Round 6 frame. In Section D.2.d, we describe how the specific covariates for each set of weight adjustment varied.

a. Coding of survey dispositions

The scheme used to code respondents included the four general categories described in Sections B.2 and C.2: eligible respondents, ineligible respondents, located nonrespondents, and unlocated sample members.

b. Response rates

The 54.5 percent response rate for the longitudinal SWS is the product of the weighted location rate and weighted cooperation rate among located sample members. The weighted location rate is 89.1 percent, and the weighted cooperation rate (the weighted completion rate among located members) is 60.1 percent. Analogous to the RBS and cross-sectional SWS, we used the weighted rates because the base weights vary greatly across the sampling strata, and the weighted rates better reflect the potential for nonresponse bias.

c. Factors related to location and cooperation

Table VI.11 shows selected factors associated with locating a sample member and the factors associated with the response among located sample members for those who were part of the Round 7 frame. Table VI.12 shows these factors for sample members who were not part of the frame. The tables include unweighted counts of all sample members, counts of located sample members, and counts of sample members who had a completed interview or were deemed ineligible. The tables also include the weighted location rate (base weight), weighted cooperation rate among located sample members (location-adjusted

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It is possible that this weighted response rate will change slightly once we redo the longitudinal weights to accommodate the final post-stratification of the Round 6 cross-sectional weight.
base weight), and weighted overall response rate for these factors (base weight). In both tables, the first row provides the overall counts and response rates for reference.

### Table VI.11. Weighted location, cooperation, and response rates for longitudinal SWS, by selected characteristics, among those in Round 7 beneficiary frame

<table>
<thead>
<tr>
<th>Sample</th>
<th>Located sample</th>
<th>Response among located sample</th>
<th>Overall respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Location rate</td>
<td>Count</td>
</tr>
<tr>
<td>All longitudinal successful workers</td>
<td>3,670</td>
<td>89.1</td>
<td>2,114</td>
</tr>
<tr>
<td>Longitudinal successful workers in Round 7 beneficiary frame</td>
<td>3,147</td>
<td>89.9</td>
<td>1,868</td>
</tr>
<tr>
<td>Extract</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extract 1</td>
<td>675</td>
<td>89.0</td>
<td>428</td>
</tr>
<tr>
<td>Extract 2</td>
<td>502</td>
<td>90.6</td>
<td>298</td>
</tr>
<tr>
<td>Extract 3</td>
<td>514</td>
<td>88.4</td>
<td>266</td>
</tr>
<tr>
<td>Extract 4</td>
<td>412</td>
<td>86.9</td>
<td>225</td>
</tr>
<tr>
<td>Extract 5</td>
<td>409</td>
<td>91.6</td>
<td>249</td>
</tr>
<tr>
<td>Extract 6</td>
<td>301</td>
<td>91.9</td>
<td>183</td>
</tr>
<tr>
<td>Extract 7</td>
<td>334</td>
<td>92.9</td>
<td>219</td>
</tr>
<tr>
<td>SSI only, SSDI only, or both SSI and SSDI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSI only</td>
<td>1,053</td>
<td>90.7</td>
<td>622</td>
</tr>
<tr>
<td>SSDI only</td>
<td>1,563</td>
<td>89.2</td>
<td>949</td>
</tr>
<tr>
<td>Both SSI and SSDI</td>
<td>531</td>
<td>90.5</td>
<td>297</td>
</tr>
<tr>
<td>Constructed disability category</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deaf</td>
<td>53</td>
<td>86.1</td>
<td>20</td>
</tr>
<tr>
<td>Cognitive disability</td>
<td>387</td>
<td>89.0</td>
<td>214</td>
</tr>
<tr>
<td>Mental illness</td>
<td>1,084</td>
<td>90.8</td>
<td>628</td>
</tr>
<tr>
<td>Physical disability</td>
<td>1,573</td>
<td>89.9</td>
<td>974</td>
</tr>
<tr>
<td>Unknown</td>
<td>50</td>
<td>84.6</td>
<td>32</td>
</tr>
<tr>
<td>Beneficiary’s age</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 to 29</td>
<td>726</td>
<td>90.2</td>
<td>389</td>
</tr>
<tr>
<td>30 to 39</td>
<td>652</td>
<td>89.2</td>
<td>352</td>
</tr>
<tr>
<td>40 to 49</td>
<td>673</td>
<td>89.9</td>
<td>400</td>
</tr>
<tr>
<td>50 and older</td>
<td>1,096</td>
<td>90.3</td>
<td>727</td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>1,608</td>
<td>90.0</td>
<td>943</td>
</tr>
<tr>
<td>Female</td>
<td>1,539</td>
<td>89.8</td>
<td>925</td>
</tr>
<tr>
<td>Ethnicity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>168</td>
<td>91.2</td>
<td>94</td>
</tr>
<tr>
<td>Non-Hispanic</td>
<td>2,979</td>
<td>89.9</td>
<td>1,774</td>
</tr>
</tbody>
</table>
Table VI.11. (continued)

<table>
<thead>
<tr>
<th></th>
<th>Sample Count</th>
<th>Located sample Count</th>
<th>Location rate</th>
<th>Response among located sample Count</th>
<th>Overall respondents Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Race</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic White</td>
<td>1,293</td>
<td>1,170</td>
<td>89.1</td>
<td>761</td>
<td>62.4</td>
<td>55.6</td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic Black</td>
<td>811</td>
<td>753</td>
<td>92.7</td>
<td>529</td>
<td>67.7</td>
<td>62.8</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>168</td>
<td>154</td>
<td>91.2</td>
<td>94</td>
<td>59.9</td>
<td>55.4</td>
<td></td>
</tr>
<tr>
<td>Asian American or Pacific Island American</td>
<td>34</td>
<td>30</td>
<td>93.0</td>
<td>20</td>
<td>58.2</td>
<td>53.9</td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaska Native</td>
<td>6</td>
<td>6</td>
<td>100.0</td>
<td>4</td>
<td>72.2</td>
<td>71.3</td>
<td></td>
</tr>
<tr>
<td>Other or unknown</td>
<td>835</td>
<td>746</td>
<td>88.5</td>
<td>460</td>
<td>57.7</td>
<td>51.2</td>
<td></td>
</tr>
<tr>
<td><strong>Living situation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Living alone</td>
<td>1,503</td>
<td>1,369</td>
<td>90.4</td>
<td>879</td>
<td>60.6</td>
<td>55.0</td>
<td></td>
</tr>
<tr>
<td>Living with others</td>
<td>67</td>
<td>63</td>
<td>95.8</td>
<td>33</td>
<td>46.0</td>
<td>45.6</td>
<td></td>
</tr>
<tr>
<td>Living with parents</td>
<td>8</td>
<td>6</td>
<td>76.0</td>
<td>4</td>
<td>61.5</td>
<td>47.7</td>
<td></td>
</tr>
<tr>
<td>In institution or unknown</td>
<td>1,569</td>
<td>1,421</td>
<td>89.3</td>
<td>952</td>
<td>64.7</td>
<td>57.7</td>
<td></td>
</tr>
<tr>
<td><strong>Did the applicant for benefits live in the same zip code as the beneficiary?</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>147</td>
<td>135</td>
<td>95.1</td>
<td>82</td>
<td>60.1</td>
<td>57.2</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>1,409</td>
<td>1,282</td>
<td>89.9</td>
<td>821</td>
<td>59.8</td>
<td>54.2</td>
<td></td>
</tr>
<tr>
<td>No information</td>
<td>1,591</td>
<td>1,442</td>
<td>89.4</td>
<td>965</td>
<td>64.6</td>
<td>57.7</td>
<td></td>
</tr>
<tr>
<td><strong>Identity of the payee with respect to the beneficiary</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary received payments directly</td>
<td>153</td>
<td>141</td>
<td>91.0</td>
<td>81</td>
<td>49.7</td>
<td>45.2</td>
<td></td>
</tr>
<tr>
<td>Payee is a family member</td>
<td>494</td>
<td>447</td>
<td>90.4</td>
<td>278</td>
<td>59.4</td>
<td>53.7</td>
<td></td>
</tr>
<tr>
<td>Payee is an institution</td>
<td>40</td>
<td>39</td>
<td>97.1</td>
<td>23</td>
<td>59.2</td>
<td>57.5</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>39</td>
<td>38</td>
<td>77.9</td>
<td>23</td>
<td>62.1</td>
<td>48.4</td>
<td></td>
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<tr>
<td>Unknown</td>
<td>2,421</td>
<td>2,194</td>
<td>89.9</td>
<td>1,463</td>
<td>64.2</td>
<td>57.7</td>
<td></td>
</tr>
<tr>
<td><strong>Number of phone numbers in file</strong></td>
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<th>Count</th>
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<th>Response rate</th>
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<td>302</td>
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<td>152</td>
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<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
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<tbody>
<tr>
<td>Metropolitan area with population of 1 million or more</td>
<td>1,934</td>
<td>91.2</td>
<td>1,154</td>
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<td>57.3</td>
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<tr>
<td>Metropolitan area with population of 250,000 to 999,999</td>
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<td>432</td>
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<td>Metropolitan area with population of fewer than 250,000</td>
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<td>Nonmetropolitan area adjacent to large metropolitan areas</td>
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<td>50.1</td>
<td>44.3</td>
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<td>Nonmetropolitan area adjacent to medium or small metropolitan areas</td>
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<td>75</td>
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<td>Nonmetropolitan area not adjacent to metropolitan areas</td>
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<td>52</td>
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<table>
<thead>
<tr>
<th>County with low education level</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
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<td>Yes</td>
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<td>255</td>
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<td>1,613</td>
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<table>
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<th>County with recreation-based economy</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
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<td>1,750</td>
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<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
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<tr>
<td>Yes</td>
<td>137</td>
<td>92.1</td>
<td>83</td>
<td>62.3</td>
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<td>89.8</td>
<td>1,785</td>
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### Table VI.11. (continued)

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<th>Overall respondents</th>
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<td>Count</td>
<td>Count</td>
<td>Location rate</td>
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<td>Retirement destination county</td>
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<tr>
<td>Yes</td>
<td>323</td>
<td>284</td>
<td>87.5</td>
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<td>No</td>
<td>2,824</td>
<td>2,575</td>
<td>90.3</td>
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<td>County with manufacturing-dependent economy</td>
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<td>168</td>
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<td>No</td>
<td>2,960</td>
<td>2,691</td>
<td>90.4</td>
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<td>2,275</td>
<td>2,073</td>
<td>90.7</td>
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<td>786</td>
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<td>County with government-dependent economy</td>
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<td>337</td>
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<td>High-poverty county</td>
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<td>County with high level of child poverty</td>
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<td>424</td>
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<tr>
<td>No</td>
<td>2,686</td>
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<tr>
<td>Percentage of dwellings that are owner occupied in county</td>
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<tr>
<td>Less than 60.8 percent</td>
<td>1,112</td>
<td>1,010</td>
<td>90.3</td>
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<tr>
<td>60.8 percent to 66.2 percent</td>
<td>934</td>
<td>850</td>
<td>89.1</td>
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<tr>
<td>More than 66.2 percent</td>
<td>1,101</td>
<td>999</td>
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<tr>
<td>County racial/ethnic profile</td>
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<tr>
<td>At least 20 percent American Indian</td>
<td>8</td>
<td>8</td>
<td>100.0</td>
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<tr>
<td>At least 90 percent non-Hispanic White</td>
<td>214</td>
<td>196</td>
<td>90.6</td>
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<tr>
<td>Plurality or majority Hispanic</td>
<td>317</td>
<td>284</td>
<td>88.5</td>
</tr>
<tr>
<td>Majority but less than 90 percent non-Hispanic White</td>
<td>1,155</td>
<td>1,046</td>
<td>89.4</td>
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<tr>
<td>Racially/ethnically mixed, no majority group, less than 20 percent American Indian</td>
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<td>1,188</td>
<td>90.5</td>
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<tr>
<td>Plurality or majority non-Hispanic Black</td>
<td>149</td>
<td>137</td>
<td>91.5</td>
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<td>Beneficiary’s DCF earnings category</td>
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<tr>
<td>Gross annual DCF earnings above $30,000 in 2017 or 2018</td>
<td>646</td>
<td>593</td>
<td>91.6</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $20,000 in 2017 or 2018</td>
<td>710</td>
<td>638</td>
<td>89.5</td>
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Table VI.11. (continued)

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<th>Sample</th>
<th>Located sample</th>
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<th>Overall respondents</th>
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<td>Count</td>
<td>Location rate</td>
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<td>Gross annual DCF earnings above $15,000 in 2017 or 2018</td>
<td>544</td>
<td>499</td>
<td>90.6</td>
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<tr>
<td>Gross annual DCF earnings above $7,000 in 2017 or 2018</td>
<td>703</td>
<td>642</td>
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<td>Gross annual DCF earnings below $7,000 in 2017 and 2018</td>
<td>544</td>
<td>487</td>
<td>86.2</td>
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Source: NBS Round 7.

*The DCF earnings categories are subdivided sequentially. In other words, the second category excludes those who are in the first category, the third excludes those in the first or second category, and so on.*
Table VI.12. Weighted location, cooperation, and response rates for longitudinal SWS, by selected characteristics, among those not in Round 7 beneficiary frame

<table>
<thead>
<tr>
<th></th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
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<td>Located sample</td>
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<td>Response among located sample</td>
<td>Overall respondents</td>
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<tr>
<td>All longitudinal successful workers</td>
<td>3,670</td>
<td>3,313</td>
<td>89.1</td>
<td>2,114</td>
<td>60.9</td>
<td>54.5</td>
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<td>Longitudinal successful workers not in Round 7 beneficiary frame</td>
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<td>454</td>
<td>84.8</td>
<td>246</td>
<td>53.1</td>
<td>45.3</td>
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<td></td>
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</tr>
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<td>Extract 1</td>
<td>123</td>
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<td>58</td>
<td>57.0</td>
<td>47.3</td>
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<td>79</td>
<td>67</td>
<td>83.4</td>
<td>36</td>
<td>49.9</td>
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<td>Extract 7</td>
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<td>70</td>
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<td>43</td>
<td>61.7</td>
<td>56.8</td>
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<td>SSI only, SSDI only, or both SSI and SSDI in Round 6</td>
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<td></td>
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<tr>
<td>SSI only</td>
<td>73</td>
<td>63</td>
<td>85.5</td>
<td>29</td>
<td>43.1</td>
<td>36.8</td>
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<td>SSDI only</td>
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<td>348</td>
<td>86.4</td>
<td>198</td>
<td>56.5</td>
<td>49.0</td>
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<td>Both SSI and SSDI</td>
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<td>71.8</td>
<td>19</td>
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<td>Constructed disability category in Round 6</td>
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<td>33.1</td>
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<td>Mental illness</td>
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<td>95</td>
<td>57.5</td>
<td>48.8</td>
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<tr>
<td>Physical disability, including deafness, or unknown</td>
<td>304</td>
<td>264</td>
<td>85.3</td>
<td>140</td>
<td>52.5</td>
<td>45.1</td>
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<td>18 to 29</td>
<td>63</td>
<td>55</td>
<td>83.1</td>
<td>23</td>
<td>44.4</td>
<td>36.7</td>
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<td>30 to 39</td>
<td>110</td>
<td>89</td>
<td>83.0</td>
<td>39</td>
<td>43.2</td>
<td>36.0</td>
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<td>40 to 49</td>
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<td>114</td>
<td>83.9</td>
<td>60</td>
<td>52.1</td>
<td>44.0</td>
</tr>
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<td>50 and older</td>
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<td>196</td>
<td>87.3</td>
<td>124</td>
<td>64.1</td>
<td>56.2</td>
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<tr>
<td>Sex</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Male</td>
<td>261</td>
<td>220</td>
<td>82.2</td>
<td>120</td>
<td>54.3</td>
<td>44.7</td>
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<tr>
<td>Female</td>
<td>262</td>
<td>234</td>
<td>87.8</td>
<td>126</td>
<td>51.9</td>
<td>46.0</td>
</tr>
<tr>
<td>Race in Round 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic White</td>
<td>255</td>
<td>211</td>
<td>81.5</td>
<td>115</td>
<td>53.5</td>
<td>43.7</td>
</tr>
<tr>
<td>Non-Hispanic Black</td>
<td>156</td>
<td>145</td>
<td>93.2</td>
<td>79</td>
<td>52.5</td>
<td>49.4</td>
</tr>
<tr>
<td>Hispanic, other races, or unknown</td>
<td>112</td>
<td>98</td>
<td>83.1</td>
<td>52</td>
<td>53.0</td>
<td>44.6</td>
</tr>
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</table>
Table VI.12. (continued)

<table>
<thead>
<tr>
<th>Living situation in Round 6</th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living alone</td>
<td>118</td>
<td>100</td>
<td>80.9</td>
<td>45</td>
<td>41.3</td>
<td>33.4</td>
</tr>
<tr>
<td>Living with others, parents, in institution or unknown</td>
<td>405</td>
<td>354</td>
<td>85.9</td>
<td>201</td>
<td>56.5</td>
<td>48.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Did the applicant for benefits live in the same zip code as the beneficiary in Round 6?</th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>109</td>
<td>91</td>
<td>80.0</td>
<td>41</td>
<td>41.4</td>
<td>33.2</td>
</tr>
<tr>
<td>No, or no information</td>
<td>414</td>
<td>363</td>
<td>86.0</td>
<td>205</td>
<td>56.1</td>
<td>48.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Identity of the payee with respect to the beneficiary in Round 6</th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beneficiary received payments directly</td>
<td>33</td>
<td>28</td>
<td>81.2</td>
<td>18</td>
<td>64.2</td>
<td>53.0</td>
</tr>
<tr>
<td>Payee is a family member</td>
<td>59</td>
<td>50</td>
<td>83.3</td>
<td>24</td>
<td>48.0</td>
<td>39.9</td>
</tr>
<tr>
<td>Payee is an institution, other, or unknown</td>
<td>431</td>
<td>376</td>
<td>85.2</td>
<td>204</td>
<td>53.4</td>
<td>45.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of phone numbers in file in Round 7</th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zero</td>
<td>70</td>
<td>65</td>
<td>94.1</td>
<td>39</td>
<td>61.4</td>
<td>57.7</td>
</tr>
<tr>
<td>One</td>
<td>74</td>
<td>66</td>
<td>83.4</td>
<td>34</td>
<td>49.0</td>
<td>41.4</td>
</tr>
<tr>
<td>Two</td>
<td>113</td>
<td>96</td>
<td>82.2</td>
<td>51</td>
<td>50.0</td>
<td>41.1</td>
</tr>
<tr>
<td>Three</td>
<td>130</td>
<td>109</td>
<td>81.3</td>
<td>56</td>
<td>53.9</td>
<td>43.9</td>
</tr>
<tr>
<td>Four</td>
<td>98</td>
<td>86</td>
<td>88.2</td>
<td>50</td>
<td>55.2</td>
<td>49.5</td>
</tr>
<tr>
<td>Five or more</td>
<td>38</td>
<td>32</td>
<td>85.0</td>
<td>16</td>
<td>49.8</td>
<td>42.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of addresses in file in Round 7</th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>84</td>
<td>69</td>
<td>77.9</td>
<td>45</td>
<td>60.0</td>
<td>47.4</td>
</tr>
<tr>
<td>Two</td>
<td>114</td>
<td>97</td>
<td>82.7</td>
<td>52</td>
<td>48.1</td>
<td>40.0</td>
</tr>
<tr>
<td>Three</td>
<td>158</td>
<td>136</td>
<td>85.7</td>
<td>57</td>
<td>46.9</td>
<td>40.0</td>
</tr>
<tr>
<td>Four</td>
<td>106</td>
<td>95</td>
<td>86.0</td>
<td>53</td>
<td>55.0</td>
<td>48.0</td>
</tr>
<tr>
<td>Five or more</td>
<td>61</td>
<td>57</td>
<td>92.9</td>
<td>39</td>
<td>63.1</td>
<td>58.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Census region in Round 6</th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midwest</td>
<td>105</td>
<td>89</td>
<td>84.3</td>
<td>52</td>
<td>57.9</td>
<td>49.4</td>
</tr>
<tr>
<td>Northeast</td>
<td>114</td>
<td>97</td>
<td>86.0</td>
<td>48</td>
<td>48.9</td>
<td>41.8</td>
</tr>
<tr>
<td>South</td>
<td>184</td>
<td>161</td>
<td>85.6</td>
<td>85</td>
<td>47.7</td>
<td>41.3</td>
</tr>
<tr>
<td>West</td>
<td>120</td>
<td>107</td>
<td>83.1</td>
<td>61</td>
<td>60.1</td>
<td>50.4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Census division in Round 6</th>
<th>Count</th>
<th>Count</th>
<th>Location rate</th>
<th>Count</th>
<th>Cooperation rate</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>East North Central</td>
<td>67</td>
<td>58</td>
<td>86.2</td>
<td>36</td>
<td>58.1</td>
<td>50.4</td>
</tr>
<tr>
<td>East South Central</td>
<td>38</td>
<td>32</td>
<td>84.0</td>
<td>15</td>
<td>43.1</td>
<td>36.8</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>77</td>
<td>63</td>
<td>84.3</td>
<td>31</td>
<td>49.7</td>
<td>41.4</td>
</tr>
<tr>
<td>Mountain</td>
<td>36</td>
<td>28</td>
<td>71.8</td>
<td>14</td>
<td>57.4</td>
<td>41.0</td>
</tr>
<tr>
<td>New England</td>
<td>37</td>
<td>34</td>
<td>89.7</td>
<td>17</td>
<td>47.3</td>
<td>42.8</td>
</tr>
<tr>
<td>Pacific</td>
<td>84</td>
<td>79</td>
<td>91.4</td>
<td>47</td>
<td>61.6</td>
<td>57.3</td>
</tr>
<tr>
<td>Metropolitan status of county</td>
<td>Count</td>
<td>Count</td>
<td>Location rate</td>
<td>Count</td>
<td>Cooperation rate</td>
<td>Response rate</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>---------------</td>
<td>-------</td>
<td>------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Metropolitan area with</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>population of 1 million or</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>more</td>
<td>327</td>
<td>285</td>
<td>86.4</td>
<td>151</td>
<td>53.5</td>
<td>46.6</td>
</tr>
<tr>
<td>Metropolitan area with</td>
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<td></td>
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<td>population of 250,000 to 999,999</td>
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<td>110</td>
<td>83.4</td>
<td>62</td>
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<td>48.5</td>
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<tr>
<td>Metropolitan area with</td>
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<tr>
<td>population of fewer than</td>
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<td>26</td>
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<td>46.5</td>
<td>39.5</td>
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<tr>
<td>250,000</td>
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<tr>
<td>Nonmetropolitan area</td>
<td>41</td>
<td>33</td>
<td>80.5</td>
<td>20</td>
<td>46.0</td>
<td>37.5</td>
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<tr>
<td>County with low education</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>level</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>61</td>
<td>52</td>
<td>87.4</td>
<td>29</td>
<td>55.7</td>
<td>50.1</td>
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<tr>
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<td>462</td>
<td>402</td>
<td>84.5</td>
<td>217</td>
<td>52.9</td>
<td>44.8</td>
</tr>
<tr>
<td>County with recreation-based</td>
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<td></td>
<td></td>
</tr>
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<td>economy</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>33</td>
<td>30</td>
<td>87.5</td>
<td>21</td>
<td>72.7</td>
<td>64.1</td>
</tr>
<tr>
<td>No</td>
<td>490</td>
<td>424</td>
<td>84.5</td>
<td>225</td>
<td>51.1</td>
<td>43.4</td>
</tr>
<tr>
<td>County with population loss</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>23</td>
<td>22</td>
<td>97.1</td>
<td>13</td>
<td>59.7</td>
<td>58.3</td>
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<tr>
<td>No</td>
<td>500</td>
<td>432</td>
<td>84.3</td>
<td>233</td>
<td>52.8</td>
<td>44.8</td>
</tr>
<tr>
<td>Retirement destination county</td>
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<td></td>
</tr>
<tr>
<td>Yes</td>
<td>74</td>
<td>65</td>
<td>83.5</td>
<td>33</td>
<td>49.9</td>
<td>41.7</td>
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<td>No</td>
<td>449</td>
<td>389</td>
<td>85.0</td>
<td>213</td>
<td>53.7</td>
<td>46.0</td>
</tr>
<tr>
<td>County with manufacturing-dependent economy</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
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<td>25</td>
<td>23</td>
<td>92.0</td>
<td>13</td>
<td>41.0</td>
<td>38.1</td>
</tr>
<tr>
<td>No</td>
<td>498</td>
<td>431</td>
<td>84.3</td>
<td>233</td>
<td>54.1</td>
<td>45.8</td>
</tr>
<tr>
<td>County with nonspecialized-dependent economy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Yes</td>
<td>407</td>
<td>352</td>
<td>84.1</td>
<td>190</td>
<td>52.9</td>
<td>44.7</td>
</tr>
<tr>
<td>No</td>
<td>116</td>
<td>102</td>
<td>86.6</td>
<td>56</td>
<td>53.8</td>
<td>47.0</td>
</tr>
<tr>
<td>County with government-dependent economy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>44</td>
<td>39</td>
<td>84.8</td>
<td>17</td>
<td>44.9</td>
<td>38.1</td>
</tr>
<tr>
<td>No</td>
<td>479</td>
<td>415</td>
<td>84.8</td>
<td>229</td>
<td>54.0</td>
<td>46.1</td>
</tr>
<tr>
<td>High-poverty county</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>49</td>
<td>41</td>
<td>85.4</td>
<td>22</td>
<td>42.3</td>
<td>37.3</td>
</tr>
<tr>
<td>No</td>
<td>474</td>
<td>413</td>
<td>84.7</td>
<td>224</td>
<td>54.1</td>
<td>46.1</td>
</tr>
<tr>
<td>County with high level of child poverty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>76</td>
<td>67</td>
<td>87.2</td>
<td>33</td>
<td>43.1</td>
<td>38.1</td>
</tr>
</tbody>
</table>
### Table VI.12. (continued)

<table>
<thead>
<tr>
<th>Source: NBS Round 7.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Percentage of dwellings that are owner occupied in county</strong></td>
</tr>
<tr>
<td><strong>Location rate</strong></td>
</tr>
<tr>
<td><strong>Sample</strong></td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>Less than 60.8 percent</td>
</tr>
<tr>
<td>60.8 percent to 66.2 percent</td>
</tr>
<tr>
<td>More than 66.2 percent</td>
</tr>
<tr>
<td><strong>County racial/ethnic profile</strong></td>
</tr>
<tr>
<td><strong>Location rate</strong></td>
</tr>
<tr>
<td><strong>Count</strong></td>
</tr>
<tr>
<td>Majority non-Hispanic White</td>
</tr>
<tr>
<td>Racially/ethnically mixed, no majority group, less than 20 percent American Indian</td>
</tr>
<tr>
<td>Other racial mixes</td>
</tr>
<tr>
<td><strong>Beneficiary's DCF earnings category</strong></td>
</tr>
<tr>
<td><strong>Location rate</strong></td>
</tr>
<tr>
<td><strong>Count</strong></td>
</tr>
<tr>
<td>Gross annual DCF earnings above $30,000 in 2017 or 2018</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $20,000 in 2017 or 2018</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $15,000 in 2017 or 2018</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $7,000 in 2017 or 2018</td>
</tr>
<tr>
<td>Gross annual DCF earnings below $7,000 in 2017 and 2018</td>
</tr>
</tbody>
</table>

*The DCF earnings categories are subdivided sequentially. In other words, the second category excludes those who are in the first category, the third excludes those in the first or second category, and so on.*
d. Propensity models for weight adjustments among longitudinal SWS cases in Round 7 beneficiary frame

The weight adjustments used in the longitudinal SWS among sample cases in the Round 7 beneficiary frame were based on predicted propensities from a logistic regression model. The model-fitting process was similar to that used in the RBS and cross-sectional SWS. We identified candidate interactions using CHAID, identified variables to investigate further using the STEPWISE procedure in SAS, and then created parsimonious models using SURVEYLOGISTIC in SAS and the RLOGIST procedure in SUDAAN. As stated earlier, we calculated the adjustments by taking the inverse of the predicted location and cooperation propensities. Note that we defined these variables in terms of the beneficiary’s status in Round 7. For example, the beneficiary title is based on whether the person was receiving SSI and/or SSDI benefits as of June 30, 2018, not as of June 30, 2016. Thus, their beneficiary title in Round 7 may not be consistent with their stratum assignments in Round 6.

Tables VI.13 and VI.14 summarize the variables included in the final location and cooperation propensity models.90 (Appendix J describes how we collapsed the levels for each model.)

<table>
<thead>
<tr>
<th>Table VI.13. Location logistic propensity model: Longitudinal SWS in Round 7 beneficiary frame</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Factors in location model</strong></td>
</tr>
<tr>
<td><strong>Main effects</strong></td>
</tr>
<tr>
<td>EXTRACT</td>
</tr>
<tr>
<td>AGECAT (AGE CATEGORY)</td>
</tr>
<tr>
<td>REGION (CENSUS REGION)</td>
</tr>
<tr>
<td>SSI_SSDI (BENEFICIARY TITLE: RECIPIENT OF SSDI, SSI, OR BOTH)</td>
</tr>
<tr>
<td>PDZIPSAME (WHETHER APPLICANT FOR BENEFITS LIVES IN SAME ZIP CODE AS BENEFICIARY)</td>
</tr>
<tr>
<td>PHONE (CATEGORIZED COUNT OF PHONE NUMBERS IN SSA FILES)</td>
</tr>
<tr>
<td>RACE</td>
</tr>
<tr>
<td>METRO (METROPOLITAN STATUS OF COUNTY)</td>
</tr>
<tr>
<td>CNTYGOV (GOVERNMENT-DEPENDENT ECONOMY, COUNTY)</td>
</tr>
<tr>
<td>CNTYNOFUEL (CATEGORIZED PERCENTAGE OF HOUSEHOLDS THAT DO NOT USE FUEL)</td>
</tr>
<tr>
<td><strong>Two-factor interactions</strong></td>
</tr>
<tr>
<td>AGECAT * CNTYGOV</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

---

90 These models may change slightly once we redo the longitudinal weights to accommodate the final post-stratification of the Round 6 cross-sectional weight.
Table VI.14. Cooperation logistic propensity model: Longitudinal SWS in Round 7 beneficiary frame

<table>
<thead>
<tr>
<th>Factors in cooperation model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main effects</strong></td>
</tr>
<tr>
<td>EXTRACT</td>
</tr>
<tr>
<td>AGECAT (AGE CATEGORY)</td>
</tr>
<tr>
<td>SSI_SSDI (BENEFICIARY TITLE: RECIPIENT OF SSDI, SSI, OR BOTH)</td>
</tr>
<tr>
<td>MOVE (CATEGORIZED COUNT OF ADDRESSES IN SSA FILES)</td>
</tr>
<tr>
<td>RACE</td>
</tr>
<tr>
<td>REGION (CENSUS REGION) or DIVISION (CENSUS DIVISION)</td>
</tr>
<tr>
<td>LIVING SITUATION</td>
</tr>
<tr>
<td>CNTYRET (COUNTY WITH HIGH PERCENTAGE OF RETIREES)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two-factor interactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENEFICIARY TITLE (BENEFICIARY OF SSDI, SSI, OR BOTH) * EXTRACT</td>
</tr>
<tr>
<td>BENEFICIARY TITLE (BENEFICIARY OF SSDI, SSI, OR BOTH) * MOVE (CATEGORIZED COUNT OF ADDRESSES IN SSA FILES)</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

The Cox-Snell R-squared is 0.036 (0.075 when rescaled to have a maximum of 1) for the location model and 0.046 (0.063 when rescaled) for the cooperation model. These values are similar to those observed for other response propensity modeling efforts that use logistic regression with design-based sampling weights. For the location model, 62.3 percent of pairs are concordant, 36.6 percent of pairs are discordant, and the p-value for the chi-square statistic from the Hosmer-Lemeshow (H-L) goodness-of-fit test is 0.567. These values indicate a reasonably good fit of the model to the data. The location adjustments from the model, calculated as the inverse of the location propensity score, ranged from 1.01 to 2.00. For the cooperation model, 60.6 percent of pairs are concordant and 38.6 percent of pairs are discordant. The p-value for the chi-squared statistic for the H-L goodness-of-fit test is 0.944 for the model. The cooperation adjustments from the model, which is calculated as the inverse of the cooperation propensity score, ranged from 1.16 to 4.35. The overall nonresponse adjustments (the product of the location adjustment and the cooperation adjustment) ranged from 1.18 to 6.17.

Among the variables used in the location and cooperation models shown in Tables VI.13 and VI.14, the number of levels used in the models is often fewer than the number of levels in Table VI.13; the levels collapsed for the models are described following the tables. The factors used in the location model included the following:

- **EXTRACT.** There are three levels: (1) Extract 5, (2) Extract 6, and (3) Extracts 1 through 4 and 7.
- **PHONE.** Count of phone numbers in SSA files. There are six levels: Levels 1 through 5 indicate zero, one, two, three, or four phone numbers on file, respectively, and Level 6 indicates five or more phone numbers on file.
- **REGION.** Geographic region of beneficiary’s place of residence, based on U.S. census regions. There are four levels: (1) West, (2) South, (3) Midwest, and (4) Northeast.
- **AGECAT.** Beneficiary’s age category. There are four levels: (1) ages 18 to 29, (2) ages 30 to 39, (3) ages 40 to 49, and (4) ages 50 or older.
• **RACE.** Race of beneficiary. There are two levels: (1) non-Hispanic Black and (2) not non-Hispanic Black or race not known.

• **SSI_SSDI.** Beneficiary title. There are two levels: (1) recipient of SSI only and (2) recipient of SSI only or of both SSI and SSDI.

• **PDZIPSAME.** Whether the SSI beneficiary and the SSI applicant for benefits live in the same zip code. There are two levels: (1) the beneficiary and applicant live in the same zip code and (2) the beneficiary and applicant live in different zip codes, the beneficiary is a recipient of SSDI only, or the information is unknown.

• **METRO.** Metropolitan status of beneficiary’s county of residence. There are three levels: (1) the beneficiary lives in a metropolitan area with a population between 250,000 and 1,000,000; (2) the beneficiary lives in a metropolitan area with a population of fewer than 250,000; and (3) the beneficiary lives in a metropolitan area with a population over 1,000,000 or the beneficiary lives in a nonmetropolitan area.

• **CNTYGOV.** County with government-dependent economy. There are two levels: (1) a county where 14 percent or more of average annual labor and proprietors’ earnings are derived from the federal and state government, or 9 percent or more jobs are in the federal or state government during 2010–2012, and (2) a county without this attribute.

• **CNTYNOFUEL.** Categorized percentage of occupied housing units in the county that do not use fuel. There are three levels: (1) the county’s percentage of housing units that do not use fuel is less than 0.4 percent; (2) the county’s percentage of housing units that do not use fuel is between 0.4 and 0.6 percent; and (3) the county’s percentage of housing units that do not use fuel exceeds 0.6 percent.

The final selected model also included two interactions involving the above variables for locating sample members. Table VI.13 provides the main effects, using the variable names listed above. Appendix J provides the parameter estimates and their standard errors. The factors used in the cooperation model included the following:

• **EXTRACT.** There are four levels: (1) Extract 1; (2) Extract 3; (3) Extract 7; and (4) Extracts 2, 4, 5, and 6.

• **SSI_SSDI.** Beneficiary title. There are two levels: (1) recipient of both SSI and SSDI and (2) recipient of SSDI only or SSI only.

• **MOVE.** Count of addresses in SSA files. There are four levels: (1) one address on file, (2)–(3) two or three addresses on file, and (4) four or more addresses on file.

• **AGECAT.** Beneficiary’s age category. There are four levels: (1) ages 18 to 29, (2) ages 30 to 39, (3) ages 40 to 49, and (4) ages 50 or older.

• **RACE.** Race of beneficiary. There are two levels: (1) non-Hispanic Black and (2) not non-Hispanic Black or race not known.

• **LIVING.** Beneficiary’s living situation. There are two levels: (1) beneficiary lives with others, and (2) beneficiary lives alone, with parents, or in an institution or the information is unknown.

• **REGION or DIVISION.** Geographic region or division of beneficiary’s place of residence, based on U.S. census regions or divisions. There are three levels: (1) South, (2) West, (3) East North Central division of Midwest, and (4) West North Central division of Midwest or Northeast.
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- **CNTYRET.** Retirement destination county. There are two levels: (1) the number of residents ages 60 and older grew by 15 percent or more between the 2000 and 2010 censuses due to net migration, and (2) the county does not have this attribute.

The model also included a single interaction between two of these variables for responding sample members, as noted in Table VI.14. Table VI.14 describes the main effects using the variable names. Appendix J provides an expanded form of Table VI.14, with parameter estimates and their standard errors.

Because there were only 523 longitudinal cases that were not part of the Round 7 beneficiary frame, and only 246 completed interviews, the options for creating nonresponse adjustments for this group were limited. We used stepwise regression and cross-tabulations to determine which variables were most closely related to location and which were related to cooperation. For the location adjustment, we created four weighting classes based on the strata derived from the beneficiary title, as defined in Round 6 (SSDI only and SSI) and race (non-Hispanic White or not). The adjustments ranged from 1.08 to 1.41. For the cooperation adjustment, we created eight weighting classes based on the same Round 6 strata (SSDI only and SSI) and the four age categories (18 to 29, 30 to 39, 40 to 49, and 50 or over). These adjustments ranged from 1.34 to 3.22, and the total adjustments (the product of the location and cooperation adjustments) ranged from 1.69 to 4.02.

4. **Post-stratification and trimming**

The adjusted weight for each sample case is the product of the base weight and the adjustment factors, trimmed to ensure that the impact of outlier weights is minimized. We performed the trimming across the two groups (both on and off the Round 7 beneficiary frame) together.

We created 14 trimming classes for each model based on the original strata from Round 6, which were in turn based on (1) the two beneficiary title levels (SSDI only and SSI), and (2) the seven extracts. We trimmed seven weights within these 14 trimming classes. Table VI.15 shows the number of weights trimmed and the design effects attributable to unequal weighting before and after trimming for each class, before poststratification.

<table>
<thead>
<tr>
<th>Extract</th>
<th>Sampling stratum</th>
<th>Number of cases trimmed</th>
<th>Design effect attributable to unequal weights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before trimming</td>
</tr>
<tr>
<td>1</td>
<td>SSDI only</td>
<td>0</td>
<td>1.40</td>
</tr>
<tr>
<td>1</td>
<td>SSI</td>
<td>2</td>
<td>1.56</td>
</tr>
<tr>
<td>2</td>
<td>SSDI only</td>
<td>1</td>
<td>1.60</td>
</tr>
<tr>
<td>2</td>
<td>SSI</td>
<td>0</td>
<td>1.37</td>
</tr>
<tr>
<td>3</td>
<td>SSDI only</td>
<td>0</td>
<td>1.41</td>
</tr>
<tr>
<td>3</td>
<td>SSI</td>
<td>1</td>
<td>1.38</td>
</tr>
<tr>
<td>4</td>
<td>SSDI only</td>
<td>1</td>
<td>1.48</td>
</tr>
<tr>
<td>4</td>
<td>SSI</td>
<td>0</td>
<td>1.27</td>
</tr>
</tbody>
</table>
Table VI.9 (continued)

<table>
<thead>
<tr>
<th>Extract</th>
<th>Sampling stratum</th>
<th>Number of cases trimmed</th>
<th>Design effect attributable to unequal weights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before trimming</td>
</tr>
<tr>
<td>5</td>
<td>SSDI only</td>
<td>1</td>
<td>1.58</td>
</tr>
<tr>
<td>5</td>
<td>SSI</td>
<td>0</td>
<td>1.30</td>
</tr>
<tr>
<td>6</td>
<td>SSDI only</td>
<td>0</td>
<td>1.36</td>
</tr>
<tr>
<td>6</td>
<td>SSI</td>
<td>0</td>
<td>1.27</td>
</tr>
<tr>
<td>7</td>
<td>SSDI only</td>
<td>0</td>
<td>1.29</td>
</tr>
<tr>
<td>7</td>
<td>SSI</td>
<td>1</td>
<td>1.38</td>
</tr>
</tbody>
</table>

Source: NBS Round 7.

Note: Design effect attributable to unequal weights = \( \frac{n \sum w^2}{(\sum w)^2} \)

After the nonresponse adjustment and trimming, we post-stratified the weights to marginal population totals for four variables: (1) extract; (2) beneficiary title as defined in Round 6 (SSI only, SSDI only, and both SSI and SSDI); (3) four age categories (18 to 29, 30 to 39, 40 to 49, and 50 or over); and (4) DCF earnings categories in Round 6 (five categories derived from DCF earnings in 2015 and 2016—the same categories used for the SWS nonresponse models in Round 6). The actual population totals were not available, so we used the estimated totals by summing the base weights for each level of these variables. We found no extreme weights after poststratification.
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VII. Imputations

The data collection instruments for the NBS–General Waves were administered with computer-assisted interviewing technology. The technology allows the use of automated routing to move the respondent to the applicable questions and performs checks of the entered data for consistency and reasonableness. In addition, it does not permit a question to be left blank; therefore, the interviewer may not proceed until an appropriate response has been entered. (“Don’t know” and “refused” are included as response options and used as necessary). These processes substantially reduce the extent of item nonresponse for a complex survey, although some item nonresponse will persist—for example, when a question was mistakenly not asked and when “don’t know” or “refused” were recorded as responses.

For the NBS–General Waves, we used three separate samples (the RBS, the cross-sectional SWS, and the longitudinal SWS), with duplicates occurring across and within samples. For the purpose of imputation processing, we grouped all three samples together as a single set of records requiring imputation, with duplicates removed, resulting in 8,823 records total. Where appropriate, we used the sample that the record belonged to as a covariate in the imputation.

In most cases, we used two methods of imputation to compensate for item nonresponse: (1) deductive (or logical) imputation and (2) unweighted hot-deck imputation. However, for some variables, the data were insufficient to use either method; thus, we needed to employ other methods, such as random draws of imputed values from distributions given by the nonmissing data. Selection of the methods was based on (1) the type of variable (dichotomous, categorical, or continuous); (2) the amount of missing data; and (3) the availability of data for the imputations. For some variables, imputations were processed using a combination of methods.

Deductive imputation is based on a review of the data related to the imputed variable. It assigns a value that may be deduced from other data or for which there is a high degree of certainty that the value is correct.

Hot-deck imputation involves the classification of sample members into mutually exclusive and exhaustive imputation classes (or imputation cells) of respondents who are assumed to be similar relative to the key population variables (such as age, disability status, and SSI recipient status). For each sample member with a missing value (a recipient), a sample member with complete data (a donor) is chosen within the same imputation class to provide a value. Ideally, the imputation class should contain sufficient sample members to avoid the selection of a single donor for several sample members with missing data.

The hot-deck procedure is computationally efficient. A simulation study by the National Center for Education Statistics (U.S. Department of Education 2001) showed that a hot-deck procedure fared well in comparison to more sophisticated imputation procedures, including multiple imputation, Bayesian bootstrap imputation, and ratio imputation. The U.S. Department of Education (USDE) study evaluated imputation methods in terms of bias of the mean, median, and quartile, as well as variance estimates, coverage probability, confidence interval width, and average imputation error.

Although the variance of estimates was a key item used to evaluate methods by the USDE study, we made no attempt in this study to estimate the component of variance attributable to imputation, even though such a component is always positive. Users should be aware that variance estimates that use imputed data will be underestimates, with the amount of bias in the variance estimate directly related to the amount of “missingness” in the variable of interest. For most of the variables requiring imputation, the extent of missingness was low; thus, the component of variance would be very small in most cases.
For the NBS–General Waves, the hot-deck imputation procedure used an unweighted selection process to select a donor, with selections made within imputation classes that were defined by key related variables for each application. In addition to the variables defining the imputation classes, we included a sorting variable that sorted the recipient and all donors within the imputation class together by levels of the variable. Using the sorted data within the imputation class, we randomly selected as the donor with equal probability a case immediately preceding or following a sample member with missing data. Therefore, the hot-deck procedure was unweighted and sequential, with a random component. We allowed with-replacement selection of a donor for each recipient. In other words, a sample member could have been a donor for more than one recipient. Given that the extent of missing values was very low for most variables, we used only a few donors more than once.91

Where appropriate, we made imputed values consistent with pre-existing nonmissing variables by excluding donors with potentially inconsistent imputed values. After processing each imputation, we used a variety of quality control procedures to evaluate the imputed values. If the initial imputed value was beyond an acceptable range or inconsistent with other data for that case, we repeated the imputation until the imputed value was in range and consistent with other reported data.

The factors used to form the cells for each imputed variable needed to be appropriate for the population, the data collected, and the purpose of the NBS–General Waves. In addition, the imputation classes needed to possess a sufficient count of donors for each sample member with missing data. We used a variety of methods to form the imputation classes: bivariate cross-tabulations, stepwise regressions, and multivariate procedures such as CHAID.92 To develop the imputation classes, we used information from both the interview and SSA administrative data files. The classing and sorting variables were closely related to the variable to be imputed (the response variable). The sorting variables were either less closely related to the response variable than were the classing variables or were forms of the classing variables with finer levels. As an example of the latter situation, we sometimes used four age categories as imputation classes: (1) 18- to 29-year-olds, (2) 30- to 39-year-olds, (3) 40- to 49-year-olds, and (4) those who were 50 years old or older. We could then use the actual age as a sorting variable to ensure that donors and recipients were as close together in age as possible.

In the case of missing values in the variables used to define imputation classes, we applied two strategies: (1) matching recipients to donors who were also missing the value for the covariate or (2) employing separate hot decks, depending upon the availability of the variables defining the imputation classes. In the first instance, we treated the level defined as the missing value as a separate level. In other words, if a recipient was missing a value for a variable defining an imputation class, the donor also was missing the value for that variable. We used the first strategy if a large number of donors and recipients were missing the covariate in question. In the second instance, we used a variable for a given recipient to define the imputation class for that recipient only if there was no missing value for that variable. The variables used to define an imputation class for each recipient depended upon what values were not missing among those variables.

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91 Household income, which was used to determine the federal poverty threshold indicator, was the exception. About 17 percent of respondents gave no household income information at all and about 20 percent gave only general categories of income. Detailed levels of missingness are given for all imputed variables later in this chapter.

The hot-deck software automatically identified situations in which the imputation class contained only recipients and no donors. In such cases, we collapsed imputation classes and once again performed the imputation with the collapsed classes. The strategy for collapsing classes required a ranking of the variables used to define the imputation class with regard to each variable’s relationship to the variable requiring imputation. If several covariates aided in imputing a given variable, the covariates less closely related to the variable requiring imputation were more likely than the important covariates in the imputation to have levels that we had to collapse. In addition, variables with a large number of levels also were more likely to have levels that we had to collapse. In general, if more than a very small number of imputation classes required collapsing, we dropped one or more variables from the definition of the imputation class and reran the imputation procedure.

Some variables were constructed from two or more variables. For some of the constructed variables, it was more efficient to impute the component variables and then impose the recoding of the constructed variable on these imputed values, rather than imputing the constructed variable directly. In the tables that follow in this chapter, we do not show the component variables because they were not included in the final data set.

For some imputed variables in the data set, the number of missing responses does not match the number of imputed responses. Often, the variables correspond to questions that follow a filter question. For example, Item I29 asks if the respondent has serious difficulty walking or climbing stairs. If the response is “yes,” the follow-up question (Item I30) asks if the respondent is able to walk without assistance at all. To be asked the follow-up question, the respondent must have answered “yes” to the screener question. If the respondent answered “no,” the follow-up question was coded a legitimate missing (.L), which was not imputed. However, if the respondent refused to answer the screener question, the follow-up question was also coded a legitimate missing. If the screener variable was then imputed to be “yes,” the response to the follow-up question was imputed, causing the count of the actual number of imputed responses to be greater than the number of missing or invalid responses.

A. NBS Imputations of Specific Variables

In the tables below, we present information on how imputation was applied to selected variables in the NBS–General Waves, including the imputed variable names, a brief description of each variable, the methods of imputation, total number of missing responses, number of respondents eligible for the question, and percentage of imputed responses. We recorded this information in the final file with an imputation flag, identified by the suffix “iflag,” which has the following levels: (.L) legitimate missing, (0) self-reported data, (1) logical imputation, (2) administrative data, (3) hot-deck imputed, (4) imputation using the distribution of a variable related to the variable being imputed, (5) imputation based on specialized procedures specific to Section K, (6) constructed from other variables with imputed values, and (7) longitudinal imputation (using data from an earlier round). The distinction between “logical imputation” and “constructed from other variables with imputed values” is somewhat opaque. In general, if we made a logical assignment for variables corresponding directly to items from the questionnaire, we set the flag to 1. For variables constructed from these variables (constructed variables are prefixed with a “C_”), we set the flag to 6. In this instance, a nonzero or nonmissing flag means we imputed one or more

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93 A longitudinal imputation is useful if (1) the variable being imputed is one that does not change over time, such as race, and (2) they responded to the question in Rounds 5 or 6 but did not in Round 7.
of the component variables in the constructed variable. All variables that include any imputed values are identified with the suffix “_i.”

Below, we summarize the imputations that we conducted and provide details for some of the imputation types for each section of the questionnaire.

### 1. Section L: Race and ethnicity

Two items in the questionnaire, item L1 and item L2, gathered information on respondents’ race and ethnicity. The imputations associated with these variables are summarized in Table VII.1. In particular, L1_i corresponds to the question asking whether the respondent is Hispanic or not; C_Race_i corresponds to the question asking about the respondent’s race.

#### Table VII.1. Race and ethnicity imputations

<table>
<thead>
<tr>
<th>Variable name</th>
<th>Description</th>
<th>Imputation method</th>
<th>Number missing</th>
<th>Number eligible</th>
<th>Percentage imputed</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1_i</td>
<td>Hispanic/Latino ethnic origins</td>
<td>5 imputations from SSA’s administrative data, 28 longitudinal imputation, 241 imputations from hot deck</td>
<td>274</td>
<td>8,823</td>
<td>2.73</td>
</tr>
<tr>
<td>C_Race_i</td>
<td>Race</td>
<td>282 imputations from SSA’s administrative data, 37 longitudinal imputation, 336 imputations from hot deck</td>
<td>655</td>
<td>8,823</td>
<td>3.81</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The “number missing” is a count of item nonrespondents, and the “number eligible” includes both item respondents and item nonrespondents. The “percentage imputed” is the “number missing” divided by the “number eligible”, and is unweighted.

In the above table, respondents who did not indicate in the questionnaire whether they were Hispanic were classified as such if the SSA administrative data so indicated. Because this round included a longitudinal component, we expected to use a larger number of longitudinal imputations than in prior rounds. Indeed, there were 28 instances in which a sample member—a unit respondent in Round 7 and in at least one of Rounds 5 or 6—did not respond to L1 in Round 7 but did respond to it in Rounds 5 or 6, so we used his or her latest available response from the prior rounds. For respondents who still had missing data, we imputed the Hispanic indicator by using a hot deck imputation. The variables used to define the imputation classes for the hot deck depended upon the respondent’s surname. We identified those with Hispanic surnames by comparing the respondents’ names to those provided by the North American Association of Central Cancer Registries (NAACCR 2003).94 For those without Hispanic surnames, we defined imputation classes by the zip code of each sample member, with race as a sorting variable. Not surprisingly, the imputation classes based on zip code commonly required collapsing to ensure that an imputation class had a sufficient number of donors for the recipients in that class. An automated process in SAS performed the needed check. However, to ensure that the zip code imputation classes being collapsed were as similar as possible, we manipulated the software so that the county of the donor zip

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94 This methodology is consistent with the procedure followed in Round 6, which was a change from earlier rounds. In Rounds 1 to 5, we logically assigned “Hispanic” if an individual had a Hispanic surname.
code and county of the recipient zip code had a similar racial and ethnic composition according to data from the Area Health Resource File (2018-2019), a file with demographic, health, and economic-related data for every county in the United States. For those with Hispanic surnames, we defined imputation classes by gender and whether the respondent lived in a county where at least 40 percent of the population identified as Hispanic, fewer than 50 percent identified as non-Hispanic White, and fewer than 20 percent identified as non-Hispanic Black.

Respondents could choose from five race categories—(1) White, (2) Black/African American, (3) Asian, (4) native Hawaiian or other Pacific Islander, and (5) Alaska Native or American Indian—and could select more than one of the categories to identify themselves (as prescribed by the Office of Management and Budget). The final race variable on which imputation was applied included six categories, with a separate category for respondents who reported multiple races. Although the SSA administrative data did not have a category for multiple races, respondents with race information in the SSA files were categorized according to four of the five categories above (native Hawaiian or other Pacific Islanders were included with respondents who reported being Asian). Respondents who did not answer the race question but did have race information in the SSA files were categorized into one of the four categories. This would have resulted in the misclassification of respondents—with SSA administrative data—who did not answer the race question in the survey but who would have identified themselves as multiple race or native Hawaiian or other Pacific Islander. However, we assumed that the number of such respondents would be small and that their misclassification would not be a major problem. There were 37 instances in which a sample member—a unit respondent in Round 7 and in at least one of Rounds 5 and 6—did not respond to L2 in Round 7, but the member did respond to it in Round 5 or 6, so we used his or her latest available response from the prior round. As with the Hispanic indicator, for respondents who still had missing data, we imputed race by using a hot deck with imputation classes that were defined by the zip code of each sample member, with ethnicity (Hispanic or not) as a sorting variable.

2. Section B: Disability status variables and work indicator

Questions about disability status and work were limited to individuals who indicated in Item B1 that they have a “physical or mental condition limiting the kind or amount of work or other daily activities that [they] can do.” If the respondent did not answer Item B1, then we imputed Item B1. In this round, there were 28 such cases, 16 of which were imputed as a “1.”

In Table VII.2, we describe five imputed variables that pertain to the sample member’s disability status and an indicator of whether the respondent was currently working. The imputed variables include three that collapse and recode primary diagnosis codes in three ways: (1) C_MainConBodyGroup_i, which corresponds to the collapsing in Table II.2; (2) C_MainConDiagGrpNew_i; and (3) C_MainConColDiagGrp_i. The “New” suffix on C_MainConDiagGrpNew_i is a result of a change in the diagnosis codes that were used in Round 6. Some of the codes do not map exactly to those used in Round 5. See Chapter V of this report for additional information. Additional variables for disability status include age when the disability was first diagnosed (C_DisAge_i) and an indicator of childhood or adult onset of the disability (C_AdultChildOnset_i), variables which were assigned to all survey respondents (not just those with a value of B1 = 1). We also imputed a fourth variable with collapsed primary diagnosis codes, with levels further collapsed from C_MainConDiagGrp_i. Table VII.2 does not include this variable (C_MainConImput_i) because it was not released to the final file but was used in subsequent imputations as a classing variable. Table VII.2 also omits the imputed version of Item B1 (B1_i), as this variable is a supporting variable that was also not released to the final file. All missing values for C_AdultChildOnset_i were “logically assigned” by using the imputed values from C_DisAge_i, the
variable for age of onset. In addition, Section B contains a question asking whether the respondent was currently working (Item B24_i), which is a gate question for all of Section C’s variables for work status.

<table>
<thead>
<tr>
<th>Variable name</th>
<th>Description</th>
<th>Imputation method</th>
<th>Number missing</th>
<th>Number eligible</th>
<th>Percentage imputed</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_MainConDiagGrpNew_i</td>
<td>Primary diagnosis group</td>
<td>358 hot deck</td>
<td>358</td>
<td>7,144</td>
<td>5.01</td>
</tr>
<tr>
<td>C_MainConColDiagGrp_i</td>
<td>Main condition diagnosis group</td>
<td>358 constructed from imputed variables</td>
<td>358</td>
<td>7,144</td>
<td>5.01</td>
</tr>
<tr>
<td>C_MainConBodyGroup_i</td>
<td>Main condition body group</td>
<td>29 hot deck, 329 constructed from imputed variables</td>
<td>358</td>
<td>7,144</td>
<td>5.01</td>
</tr>
<tr>
<td>C_DisAge_i</td>
<td>Age at onset of disability</td>
<td>48 longitudinal imputation, 221 hot deck</td>
<td>269</td>
<td>8,823</td>
<td>3.04</td>
</tr>
<tr>
<td>C_AdultChildOnset_i</td>
<td>Adult/child onset of disability</td>
<td>26 constructed from imputed variables</td>
<td>26</td>
<td>8,823</td>
<td>0.29</td>
</tr>
<tr>
<td>B24_i</td>
<td>Currently working</td>
<td>6 hot deck</td>
<td>6</td>
<td>8,823</td>
<td>5.01</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The “number missing” and “number eligible” counts exclude those who skipped out of the relevant question(s) based upon computer skip patterns. The “number missing” is a count of item nonrespondents, and the “number eligible” includes both item respondents and item nonrespondents. The “percentage imputed” is the “number missing” divided by the “number eligible”, and is unweighted.

Imputations for diagnosis group variables excluded five cases coded as “don’t know” or “refused” in Item B1, which were imputed in Item B1_i as not having a condition that limited the kind or amount of work or other daily activity that the respondent could do.

To define imputation classes, all of the variables in Section B used an indicator to specify whether the onset of the disability occurred in childhood or adulthood and to specify age and gender. We also used one of the collapsed condition code variables, C_MainConImput_i, as a classing variable for disability age and the work indicator. We used additional classing variables specific to the variable being imputed.

3. **Section C: Current jobs variables**

Several survey questions asked respondents about current employment. Section C asked such questions only of respondents who indicated in Item B24 that they were currently working. If the respondent did not answer Item B24, then we imputed Item B24. In this round, there were six such cases, four of which were imputed as “working.” As identified in Table VII.3, the questions asked about the following:

- Salary (C_MainCurJobHrPay_i, C_MainCurJobMnthPay_i, and C_TotCurJobMnthPay_i)
- Usual hours worked at the job or jobs (C8_1_i, C_TotCurWkHrs_i, and C_TotCurHrMnth_i)
- Number of places the respondent was employed (C1_i)
- Job description for the place of main employment (C2_1_1d_i)
We imputed values for other variables by using the distribution of a variable related to the variable at hand. For example, if the take-home monthly pay of the respondent’s current main job was not missing but the gross monthly pay (C_MainCurJobMnthPay_i) for the job was missing, we used the relationship between gross monthly and take-home monthly pay among respondents missing neither variable to determine the appropriate value for gross monthly pay. In particular, a random draw was selected from the observed distribution of relative taxes, where “relative tax” is defined as the proportion of a respondent’s pay devoted to taxes. We then used the randomly drawn relative tax to determine an imputed gross monthly pay for four cases with missing data for C_MainCurJobMnthPay_i. As noted in Table VII.3, we applied hot-deck imputations to only four of the jobs variables: (1) C1_i, (2) C2_1_1d_i, (3) C8_1_i, and (4) C_TotCurMnthPay_i. For these variables, we used the level of education as a classing variable as well as additional classing and sorting variables specific to each variable, including a condition code variable for all but C_TotCurMnthPay_i.

Some of the variables in Table VII.3 had missing values that were not directly imputed. Rather, constituent variables not included in the table had missing values that were imputed and then combined to form the variables in the table. For example, we constructed C_TotCurWkHrs_i from the number of hours per week usually worked at the current main job plus the number of hours for each of the respondent’s other jobs. In most cases, the respondent worked one job, so we set C_TotCurWkHrs_i equal to C8_1_i. However, if the respondent worked more than one job and the number of hours in secondary jobs was imputed, we constructed C_TotCurWkHrs_i from imputed variables.
### Table VII.3. Current jobs imputations

<table>
<thead>
<tr>
<th>Variable name</th>
<th>Description</th>
<th>Imputation method</th>
<th>Number missing</th>
<th>Number eligible</th>
<th>Percentage imputed</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1_i</td>
<td>Count of current jobs</td>
<td>1 logical, 7 hot deck</td>
<td>8</td>
<td>4,364</td>
<td>0.18</td>
</tr>
<tr>
<td>C2_1_1d_i</td>
<td>Main current job SOC code to one digit</td>
<td>15 hot deck&lt;sup&gt;a&lt;/sup&gt;</td>
<td>15</td>
<td>4,364</td>
<td>0.34</td>
</tr>
<tr>
<td>C8_1_i</td>
<td>Hours per week usually worked at current main job</td>
<td>67 hot deck,&lt;sup&gt;b&lt;/sup&gt; 4 imputed by distributional assumptions</td>
<td>71</td>
<td>4,364</td>
<td>1.63</td>
</tr>
<tr>
<td>C_TotCurWkHrs_i</td>
<td>Total weekly hours at all current jobs</td>
<td>67 hot deck,&lt;sup&gt;c&lt;/sup&gt; 14 constructed from imputed variables</td>
<td>81</td>
<td>4,364</td>
<td>1.86</td>
</tr>
<tr>
<td>C_TotCurHrMnth_i</td>
<td>Total hours per month at all current jobs</td>
<td>77 constructed from imputed variables</td>
<td>77</td>
<td>4,364</td>
<td>1.76</td>
</tr>
<tr>
<td>C_MainCurJobHrPay_i</td>
<td>Hourly pay at current main job</td>
<td>10 logical, 390 constructed from imputed variables</td>
<td>400</td>
<td>4,364</td>
<td>9.17</td>
</tr>
<tr>
<td>C_MainCurJobMnthPay_i</td>
<td>Monthly pay at current main job</td>
<td>36 logical, 26 imputed by distributional assumptions, 364 constructed from imputed variables</td>
<td>426</td>
<td>4,364</td>
<td>9.76</td>
</tr>
<tr>
<td>C_TotCurMnthPay_i</td>
<td>Total monthly salary all current jobs</td>
<td>33 logical, 364 hot deck, 44 constructed from imputed variables</td>
<td>441</td>
<td>4,364</td>
<td>10.11</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The “number missing” and “number eligible” counts exclude those who skipped out of the relevant question(s) based upon computer skip patterns. The “number missing” is a count of item nonrespondents, and the “number eligible” includes both item respondents and item nonrespondents. The “percentage imputed” is the “number missing” divided by the “number eligible”, and is unweighted.

<sup>a</sup>Imputations for current job variables excluded cases coded as “don’t know” or “refused” in Item B24, which were imputed as currently not working in Item B24_i. Imputations for current job variables include other cases coded as “don’t know or “refused” in Item B24 that were imputed as currently working in item B24_i.

<sup>b</sup>Imputations for current job variables excluded cases coded as “don’t know” or “refused” in Item B24, which were imputed as currently not working in Item B24_i. Imputations for current job variables include other cases coded as “don’t know or “refused” in Item B24 that were imputed as currently working in Item B24_i.

<sup>c</sup>If C8_1_i was imputed by hot deck and the respondent had only one job, the flag indicated that C_TotCurWkHrs_i was imputed by hot deck, even though the variable was not processed in the hot-deck program.

### 4. Section I: Health status variables

Section I of the NBS–General Waves accounted for 57 health status variables in which imputations were applied. Tables VII.4 and VII.5 identify the 57 imputed variables and the methods of imputation used for each variable. The items cover a range of topics, from the respondent’s general health to specific questions on instrumental activities of daily living (IADLs), activities of daily living (ADLs), and other...
health and coping indicators. A series of questions pertaining to the respondent’s use of illicit drugs and alcohol is also included in Section I.

### Table VII.4. Health status imputations, questionnaire variables

<table>
<thead>
<tr>
<th>Variable name</th>
<th>Description</th>
<th>Imputation method</th>
<th>Number missing</th>
<th>Number eligible</th>
<th>Percentage imputed</th>
</tr>
</thead>
<tbody>
<tr>
<td>I1_i</td>
<td>Health during the past four weeks</td>
<td>24 hot deck</td>
<td>24</td>
<td>8,823</td>
<td>0.27</td>
</tr>
<tr>
<td>I9_i</td>
<td>Current health</td>
<td>68 hot deck</td>
<td>68</td>
<td>8,823</td>
<td>0.77</td>
</tr>
<tr>
<td>I17b_i</td>
<td>Blind or difficulty seeing, even with glasses</td>
<td>2 logical, 104 hot deck</td>
<td>106</td>
<td>8,823</td>
<td>1.20</td>
</tr>
<tr>
<td>I19_i</td>
<td>Uses special equipment because of difficulty seeing</td>
<td>12 hot deck, 89 constructed from imputed variables</td>
<td>101</td>
<td>8,823</td>
<td>1.14</td>
</tr>
<tr>
<td>I21_i</td>
<td>Deaf or difficulty hearing</td>
<td>1 logical, 94 hot deck</td>
<td>95</td>
<td>8,823</td>
<td>1.08</td>
</tr>
<tr>
<td>I22_i</td>
<td>Able to hear normal conversation at all</td>
<td>32 hot deck, 81 constructed from imputed variables</td>
<td>113</td>
<td>8,823</td>
<td>1.28</td>
</tr>
<tr>
<td>I23_i</td>
<td>Uses special equipment because of difficulty hearing</td>
<td>13 hot deck, 81 constructed from imputed variables</td>
<td>94</td>
<td>8,823</td>
<td>1.07</td>
</tr>
<tr>
<td>I25_i</td>
<td>Difficulty having speech understood</td>
<td>6 logical, 110 hot deck</td>
<td>116</td>
<td>8,823</td>
<td>1.31</td>
</tr>
<tr>
<td>I26_i</td>
<td>Able to have speech understood at all</td>
<td>37 hot deck, 85 constructed from imputed variables</td>
<td>122</td>
<td>8,823</td>
<td>1.38</td>
</tr>
<tr>
<td>I27_i</td>
<td>Uses special equipment because of difficulty speaking</td>
<td>19 hot deck, 85 constructed from imputed variables</td>
<td>104</td>
<td>8,823</td>
<td>1.18</td>
</tr>
<tr>
<td>I29_i</td>
<td>Difficulty walking or climbing stairs without assistance</td>
<td>3 logical, 98 hot deck</td>
<td>101</td>
<td>8,823</td>
<td>1.14</td>
</tr>
<tr>
<td>I30_i</td>
<td>Able to walk without assistance at all</td>
<td>65 hot deck, 48 constructed from imputed variables</td>
<td>113</td>
<td>8,823</td>
<td>1.28</td>
</tr>
<tr>
<td>I31_i</td>
<td>Uses special equipment because of difficulty walking</td>
<td>48 hot deck, 48 constructed from imputed variables</td>
<td>96</td>
<td>8,823</td>
<td>1.08</td>
</tr>
<tr>
<td>I34_i</td>
<td>Able to climb stairs at all</td>
<td>73 hot deck, 48 constructed from imputed variables</td>
<td>121</td>
<td>8,823</td>
<td>1.37</td>
</tr>
<tr>
<td>I35_i</td>
<td>Difficulty lifting and carrying 10 pounds</td>
<td>1 logical, 113 hot deck</td>
<td>114</td>
<td>8,823</td>
<td>1.29</td>
</tr>
<tr>
<td>I36_i</td>
<td>Able to lift or carry 10 pounds at all</td>
<td>85 hot deck, 73 constructed from imputed variables</td>
<td>158</td>
<td>8,823</td>
<td>1.79</td>
</tr>
<tr>
<td>Variable name</td>
<td>Description</td>
<td>Imputation method</td>
<td>Number missing</td>
<td>Number eligible</td>
<td>Percentage imputed</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------</td>
<td>--------------------------------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>I37_i</td>
<td>Difficulty using hands or fingers</td>
<td>116 hot deck</td>
<td>116</td>
<td>8,823</td>
<td>1.31</td>
</tr>
<tr>
<td>I38_i</td>
<td>Able to use hands or fingers at all</td>
<td>47 hot deck, 86 constructed from imputed variables</td>
<td>133</td>
<td>8,823</td>
<td>1.50</td>
</tr>
<tr>
<td>I39_i</td>
<td>Difficulty reaching over head</td>
<td>1 logical, 116 hot deck</td>
<td>117</td>
<td>8,823</td>
<td>1.32</td>
</tr>
<tr>
<td>I40_i</td>
<td>Able to reach over head at all</td>
<td>42 hot deck, 86 constructed from imputed variables</td>
<td>128</td>
<td>8,823</td>
<td>1.45</td>
</tr>
<tr>
<td>I41_i</td>
<td>Difficulty standing</td>
<td>1 logical, 127 hot deck</td>
<td>128</td>
<td>8,823</td>
<td>1.45</td>
</tr>
<tr>
<td>I42_i</td>
<td>Able to stand at all</td>
<td>67 hot deck, 56 constructed from imputed variables</td>
<td>123</td>
<td>8,823</td>
<td>1.39</td>
</tr>
<tr>
<td>I43_i</td>
<td>Difficulty stooping</td>
<td>3 logical, 111 hot deck</td>
<td>114</td>
<td>8,823</td>
<td>1.29</td>
</tr>
<tr>
<td>I44_i</td>
<td>Able to stoop at all</td>
<td>80 hot deck, 54 constructed from imputed variables</td>
<td>134</td>
<td>8,823</td>
<td>1.52</td>
</tr>
<tr>
<td>I45_i</td>
<td>Difficulty getting around inside home</td>
<td>5 logical, 111 hot deck</td>
<td>116</td>
<td>8,823</td>
<td>1.32</td>
</tr>
<tr>
<td>I46_i</td>
<td>Needs help to get around inside home</td>
<td>24 hot deck, 93 constructed from imputed variables</td>
<td>117</td>
<td>8,823</td>
<td>1.33</td>
</tr>
<tr>
<td>I47_i</td>
<td>Difficulty doing errands alone</td>
<td>3 logical, 115 hot deck</td>
<td>118</td>
<td>8,823</td>
<td>1.33</td>
</tr>
<tr>
<td>I48_i</td>
<td>Needs help to get around outside home</td>
<td>85 hot deck, 64 constructed from imputed variables</td>
<td>149</td>
<td>8,823</td>
<td>1.69</td>
</tr>
<tr>
<td>I49_i</td>
<td>Difficulty getting into/out of bed</td>
<td>5 logical, 120 hot deck</td>
<td>125</td>
<td>8,823</td>
<td>1.42</td>
</tr>
<tr>
<td>I50_i</td>
<td>Needs help getting into/out of bed</td>
<td>35 logical, 91 hot deck, constructed from imputed variables</td>
<td>126</td>
<td>8,823</td>
<td>1.43</td>
</tr>
<tr>
<td>I51_i</td>
<td>Difficulty bathing or dressing</td>
<td>6 logical, 125 hot deck</td>
<td>131</td>
<td>8,823</td>
<td>1.49</td>
</tr>
<tr>
<td>I52_i</td>
<td>Needs help bathing or dressing</td>
<td>31 hot deck, 97 constructed from imputed variables</td>
<td>128</td>
<td>8,823</td>
<td>1.45</td>
</tr>
<tr>
<td>I53_i</td>
<td>Difficulty shopping</td>
<td>18 logical, 111 hot deck</td>
<td>129</td>
<td>8,823</td>
<td>1.46</td>
</tr>
<tr>
<td>I54_i</td>
<td>Needs help shopping</td>
<td>41 hot deck, 78 constructed from imputed variables</td>
<td>119</td>
<td>8,823</td>
<td>1.34</td>
</tr>
<tr>
<td>I55_i</td>
<td>Difficulty preparing own meals</td>
<td>11 logical, 122 hot deck</td>
<td>133</td>
<td>8,823</td>
<td>1.50</td>
</tr>
<tr>
<td>Variable name</td>
<td>Description</td>
<td>Imputation method</td>
<td>Number missing</td>
<td>Number eligible</td>
<td>Percentage imputed</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------</td>
<td>-------------------------------------------------------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>I56_i</td>
<td>Needs help to prepare meals</td>
<td>45 hot deck, 86 constructed from imputed variables</td>
<td>131</td>
<td>8,823</td>
<td>1.48</td>
</tr>
<tr>
<td>I57_i</td>
<td>Difficulty eating</td>
<td>1 logical, 116 hot deck</td>
<td>117</td>
<td>8,823</td>
<td>1.32</td>
</tr>
<tr>
<td>I58_i</td>
<td>Needs help to eat</td>
<td>17 hot deck, 99 constructed from imputed variables</td>
<td>116</td>
<td>8,823</td>
<td>1.31</td>
</tr>
<tr>
<td>I59_i</td>
<td>Trouble concentrating or remembering</td>
<td>148 hot deck</td>
<td>148</td>
<td>8,823</td>
<td>1.68</td>
</tr>
<tr>
<td>I60_i</td>
<td>Trouble coping with stress</td>
<td>179 hot deck</td>
<td>179</td>
<td>8,823</td>
<td>2.03</td>
</tr>
<tr>
<td>I61_i</td>
<td>Trouble getting along with people</td>
<td>167 hot deck</td>
<td>167</td>
<td>8,823</td>
<td>1.89</td>
</tr>
<tr>
<td>CageScore_Indicator_i</td>
<td>CAGE Alcohol Score</td>
<td>125 constructed from imputed variables</td>
<td>125</td>
<td>8,823</td>
<td>1.42</td>
</tr>
<tr>
<td>I72_i</td>
<td>Uses drugs in larger amounts than prescribed</td>
<td>150 hot deck</td>
<td>150</td>
<td>8,823</td>
<td>1.70</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The “number missing” and “number eligible” counts exclude those who skipped out of the relevant question(s) based upon computer skip patterns. The “number missing” is a count of item nonrespondents, and the “number eligible” includes both item respondents and item nonrespondents. The “percentage imputed” is the “number missing” divided by the “number eligible”, and is unweighted.
## Table VII.5. Health status imputations, constructed variables

<table>
<thead>
<tr>
<th>Variable name</th>
<th>Description</th>
<th>Imputation method</th>
<th>Number missing</th>
<th>Number eligible</th>
<th>Percentage imputed</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_EquipFuncLim_i</td>
<td>Uses equipment/device for functional/sensory limitation</td>
<td>90 constructed from imputed variables</td>
<td>90</td>
<td>8,823</td>
<td>1.02</td>
</tr>
<tr>
<td>C_NumSenLim_i</td>
<td>Number of sensory limitations</td>
<td>142 constructed from imputed variables</td>
<td>142</td>
<td>8,823</td>
<td>1.61</td>
</tr>
<tr>
<td>C_NumSevSenLim_i</td>
<td>Number of severe sensory limitations</td>
<td>127 constructed from imputed variables</td>
<td>127</td>
<td>8,823</td>
<td>1.44</td>
</tr>
<tr>
<td>C_NumPhyLim_i</td>
<td>Number of physical functional limitations</td>
<td>207 constructed from imputed variables</td>
<td>207</td>
<td>8,823</td>
<td>2.35</td>
</tr>
<tr>
<td>C_NumSevPhyLim_i</td>
<td>Number of severe physical functional limitations</td>
<td>262 constructed from imputed variables</td>
<td>262</td>
<td>8,823</td>
<td>2.97</td>
</tr>
<tr>
<td>C_NumEmotLim_i</td>
<td>Number of emotional/social limitations</td>
<td>255 constructed from imputed variables</td>
<td>255</td>
<td>8,823</td>
<td>2.89</td>
</tr>
<tr>
<td>C_NumADLs_i</td>
<td>Number of impaired ADL</td>
<td>173 constructed from imputed variables</td>
<td>173</td>
<td>8,823</td>
<td>1.96</td>
</tr>
<tr>
<td>C_NumADLAssist_i</td>
<td>Number of ADL requiring assistance</td>
<td>145 constructed from imputed variables</td>
<td>145</td>
<td>8,823</td>
<td>1.64</td>
</tr>
<tr>
<td>C_NumIADLs_i</td>
<td>Number of IADL difficulties</td>
<td>171 constructed from imputed variables</td>
<td>171</td>
<td>8,823</td>
<td>1.94</td>
</tr>
<tr>
<td>C_NumIADLAssist_i</td>
<td>Number of IADL requiring assistance</td>
<td>171 constructed from imputed variables</td>
<td>171</td>
<td>8,823</td>
<td>1.94</td>
</tr>
<tr>
<td>C_PCS8TOT_i</td>
<td>Physical summary score</td>
<td>237 constructed from imputed variables</td>
<td>237</td>
<td>8,823</td>
<td>2.69</td>
</tr>
<tr>
<td>C_MCS8TOT_i</td>
<td>Mental summary score</td>
<td>237 constructed from imputed variables</td>
<td>237</td>
<td>8,823</td>
<td>2.69</td>
</tr>
<tr>
<td>C_DrugDep_i</td>
<td>Drug dependence</td>
<td>154 constructed from imputed variables</td>
<td>154</td>
<td>8,823</td>
<td>1.75</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The “number missing” and “number eligible” counts exclude those who skipped out of the relevant question(s) based upon computer skip patterns. The “number missing” is a count of item nonrespondents, and the “number eligible” includes both item respondents and item nonrespondents. The “percentage imputed” is the “number missing” divided by the “number eligible”, and is unweighted.

The following is an example of a logical assignment in Section I: If respondents did not answer whether they were blind or experienced difficulty seeing even when wearing glasses or contact lenses (Item I17b), but indicated that they required special devices to see because they had difficulty seeing (Item I19), then we logically assigned “yes” to Item I17b_i.

As in previous sections, “constructed from imputed variables” refers to the fact that we imputed the constituent variables of each constructed variable. The only classing variable common to all imputations was the code variable for the collapsed condition. We also used age and gender in most imputations. The other classing and sorting variables were specific to the variable being imputed.
5. **Section K: Sources of income other than employment**

The imputed variables in Section K are constructed variables that pertain to nonemployment-based income and include workers’ compensation, private disability claims, unemployment, and other sources of regular income, as described in Table VII.6

<table>
<thead>
<tr>
<th>Variable name</th>
<th>Description</th>
<th>Imputation method</th>
<th>Number missing</th>
<th>Number eligible</th>
<th>Percentage imputed</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_AmtPrivDis_i</td>
<td>Amount received from private disability last month</td>
<td>231 constructed from imputed variables, 24 imputed by descriptive statistics using specialized procedures</td>
<td>255</td>
<td>8,823</td>
<td>2.91</td>
</tr>
<tr>
<td>C_AmtWorkComp_i</td>
<td>Amount received from workers’ compensation last month</td>
<td>154 constructed from imputed variables, 7 imputed by descriptive statistics using specialized procedures</td>
<td>161</td>
<td>8,823</td>
<td>1.83</td>
</tr>
<tr>
<td>C_AmtVetBen_i</td>
<td>Amount received from veterans’ benefits last month</td>
<td>144 constructed from imputed variables, 20 imputed by descriptive statistics using specialized procedures</td>
<td>164</td>
<td>8,823</td>
<td>1.86</td>
</tr>
<tr>
<td>C_AmtPubAssis_i</td>
<td>Amount received from public assistance last month</td>
<td>151 constructed from imputed variables, 18 imputed by descriptive statistics using specialized procedures</td>
<td>169</td>
<td>8,823</td>
<td>1.91</td>
</tr>
<tr>
<td>C_AmtUnemply_i</td>
<td>Amount received from unemployment benefits last month</td>
<td>142 constructed from imputed variables, 3 imputed by descriptive statistics using specialized procedures</td>
<td>145</td>
<td>8,823</td>
<td>1.64</td>
</tr>
<tr>
<td>C_AmtPrivPen_i</td>
<td>Amount received from private pension last month</td>
<td>146 constructed from imputed variables, 15 imputed by descriptive statistics using specialized procedures</td>
<td>161</td>
<td>8,823</td>
<td>1.82</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The “number missing” and “number eligible” counts exclude those who skipped out of the relevant question(s) based upon computer skip patterns. The “number missing” is a count of item nonrespondents, and the “number eligible” includes both item respondents and item nonrespondents. The “percentage imputed” is the “number missing” divided by the “number eligible”, and is unweighted.

Items in Section K first asked respondents if they received money from a specific source and then asked for the specific amount received from that source. If a respondent could not provide a specific value, he or she answered a series of questions about whether the amount was above or below specific values. Respondents also had the option of providing a range of values, in which the options depended upon responses to a series of questions. After we classified the response according to a range of values provided by the respondent, we assigned the respondent the median of the specific values provided by others who gave responses within the same range. If a respondent could not say whether the actual value...
was above or below a specific threshold, we first imputed the range (using random assignment), then assigned the median of the values provided by respondents who listed specific values within that range. If the respondent did not know if he or she received funds from a source, we used hot-deck imputation to determine whether such was the case and then proceeded as above.

The logical assignments in Section K derive from imputed values in the constituent questions. For example, Item K6 in the questionnaire asks whether the respondent received income from a variety of sources, and Item K7 asks the amount from each source for which a “yes” response was given. The first source listed (Item K6a) is private disability insurance. If the respondent was imputed not to have received private disability insurance (K6a_i), then the constructed variable C_AmtPrivDis_i (based on Item K7) was logically assigned “no.” Otherwise, if any income was derived from private disability insurance but an imputation was required at some point in the sequence (either everything or just the individual’s income was imputed), then the imputation flag indicated imputation by “special procedures.”

For variables requiring hot-deck imputation, the classing variables were the same for all variables: an indicator of whether the respondent was a recipient of SSI, SSDI, or both; living situation; and education.

Table VII.6 lists none of the variables requiring hot-deck imputation because they were just component variables for the delivered variables listed in the table.

6. Section L: Personal and household characteristics

We discussed race and ethnicity, derived from items L1 and L2 in the questionnaire, in Section 1 of this chapter. Other imputed variables that are personal and household characteristics also come from Section L. The questions from which the imputed variables were derived ask about education (L3_i), marital status (L8_i), cohabitation status (C_Cohab_i), number of children in household (C_NumChildHH_i), household size (C_Hhsize_i), and weight and height, which were used to derive body mass index (C_BMI_cat_i). Most of these variables were imputed early in imputation processing and were used in the imputation of variables imputed later in processing. Household income questions are also asked in Section L, which, in combination with C_Hhsize_i and C_NumChildHH_i, we use to derive the federal poverty level variable.

The level of missingness for C_Cohab was considerably higher in Round 6 than in any prior rounds or in Round 7, due to a programming error in the software that assigned skip logic in the questionnaire. In particular, all sample members who indicated that they were divorced in question L8 were skipped out of L10, the source variable for C_Cohab. The programming error was corrected in Round 7, so that the missingness in the C_Cohab variable in Round 7 (1.80 percent) was more in line with what had been observed in Rounds 1 to 5.

The imputation of poverty level required the imputation of annual income and household size. The annual income question was another case that required a specific value. If the respondent could not provide a specific value, he or she was asked if annual income fell within certain ranges. Some respondents provided a specific value, some provided a range of values, and some refused to provide any information. Although annual income was a key variable used in the imputation of poverty level, it was not included in Table VII.7 because it was not released in the final file. All missing values in C_FedPovertyLevel_cat1 95

95 The name of this variable reflects the fact that the final variable was a categorical (as opposed to a continuous) measure of poverty level.
were derived from the imputed annual incomes; hence, all missing values are “constructed from imputed variables.” In Table VII.7, we identify the imputed variables in Section L.

Logical assignments in Section L are based on related variables also in Section L. For example, a logical assignment for L11_i (living situation of beneficiary) would occur if the respondent did not answer Item L11 but indicated in Item L16 (number of adults in household) that only one adult lived in the household and indicated in Item L17 (number in household under 18 years old) the number of children living in the household. In this case, the value for L11_i would be logically assigned to 1 (lives alone) or 2 (lives with parent, spouse, or children), depending upon the response to Item L17.

Each of the classing and sorting variables were specific to the variable being imputed.

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
<th>Imputation Method</th>
<th>Number Missing</th>
<th>Number Eligible</th>
<th>Percentage Imputed</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_BMI_cat_i</td>
<td>Body mass index categories</td>
<td>432 hot deck</td>
<td>432</td>
<td>8,823</td>
<td>4.90</td>
</tr>
<tr>
<td>L3_i</td>
<td>Highest year/grade completed in school</td>
<td>198 hot deck</td>
<td>198</td>
<td>8,823</td>
<td>2.24</td>
</tr>
<tr>
<td>L8_i</td>
<td>Marital status</td>
<td>179 hot deck</td>
<td>179</td>
<td>8,823</td>
<td>2.03</td>
</tr>
<tr>
<td>L11_i</td>
<td>Living arrangements</td>
<td>7 logical, 165 hot deck</td>
<td>172</td>
<td>8,823</td>
<td>1.95</td>
</tr>
<tr>
<td>C_NumChildHH_i</td>
<td>Number of children living in household</td>
<td>18 logical, 156 hot deck, 42 constructed from imputed variables</td>
<td>216</td>
<td>8,823</td>
<td>2.45</td>
</tr>
<tr>
<td>C_HHsize_i</td>
<td>Household size</td>
<td>1 logical, 179 hot deck, 31 constructed from imputed variables</td>
<td>211</td>
<td>8,823</td>
<td>2.39</td>
</tr>
<tr>
<td>C_Cohab_i</td>
<td>Cohabitation status</td>
<td>6 logical, 153 hot deck</td>
<td>159</td>
<td>8,823</td>
<td>1.80</td>
</tr>
<tr>
<td>C_FedPovertyLevel_cat</td>
<td>2018 Federal poverty level</td>
<td>3,322 constructed from imputed variables</td>
<td>3,322</td>
<td>8,823</td>
<td>37.65</td>
</tr>
</tbody>
</table>

Source: NBS Round 7

Note: The “number missing” and “number eligible” counts exclude those who skipped out of the relevant question(s) based upon computer skip patterns. The “number missing” is a count of item nonrespondents, and the “number eligible” includes both item respondents and item nonrespondents. The “percentage imputed” is the “number missing” divided by the “number eligible”, and is unweighted.
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VIII. USING THE NBS RESTRICTED ACCESS AND PUBLIC USE FILES

A. File Content and Technical Specifications

The NBS-General Waves Round 7 Restricted Access File contains 9,093 records and 2,353 variables. Variables on the data file are preceded by an R7 to identify them as Round 7 variables. Variables are positioned on the file in the following order:

1. **Survey administration variables.** These variables are related to survey administration, including respondent type identifiers and other variables associated with conduct of the survey.

2. **Sampling variables and weights.** These variables include administrative variables used for sampling purposes and administrative data that provide additional descriptive information about the sample.

3. **Variables from Sections A through M of the NBS questionnaire.** These variables are ordered within each section by related questionnaire item number. Constructed variables created from source variables within a section are ordered at the end of each section. Two constructed variables contain information from SSA administrative data.

4. **SSA administrative data.** These variables include a select set of data from SSA administrative records.

The Restricted Access File is available in a SAS “sas7bdat” format database. The Restricted Access File has the following technical specifications:

- Data set name: R7NBSRAF
- Number of observations: 9,092
- Number of variables: 2,412
- Date last created: October 20, 2021

The Public Use File has the following technical specifications:

- Data set name: R7NBSPUF
- Number of observations: 9,092
- Number of variables: 1,042
- Date last created: October 20, 2021

B. Choosing a Sample and Weight Variable

As discussed in Chapter II, weights were created for the National Representative Beneficiary Sample to allow estimates of the national beneficiary population. The weights should be used when performing any analysis. Due to the design of the NBS and the variation of weights within sampling strata, the use of unweighted rather than weighted data in the analysis will provide incorrect results. The weight variable for the RBS is named R7_WTR7_BEN; for the cross-sectional SWS the weight variable is named R7_WTR7_CSSWS; and for the longitudinal SWS the weight variable is R7_WTR7_LNGSWS. Analysts wanting to incorporate sample data from both the RBS and cross-sectional SWS together can use
The weights account for the sampling method, data collection method, and the survey’s target population.

C. Estimating Sampling Variance for NBS

The sampling variance of an estimate derived from survey data for a statistic (such as a total, a mean or proportion, or a regression coefficient) is a measure of the random variation among estimates of the same statistic computed over repeated implementation of the same sample design with the same sample size on the same population. The sampling variance is a function of the population characteristics, the form of the statistic, and the nature of the sampling design. The two general forms of statistics are linear combinations of the survey data (for example, a total) and nonlinear combinations. The latter include the ratio of two estimates (for example, a mean or proportion in which both the numerator and denominator are estimated) and more complex combinations, such as regression coefficients. For linear estimates with simple sample designs (such as a stratified or unstratified simple random sample) or complex designs (such as stratified multistage designs), explicit equations are available to compute the sampling variance. For the more common nonlinear estimates with simple or complex sample designs, explicit equations generally are not available, and various approximations or computational algorithms provide an essentially unbiased estimate of the sampling variance.

The NBS—General Waves sample design involves stratification and unequal probabilities of selection. Variance estimates calculated from NBS—General Waves data must incorporate the sample design features to obtain the correct estimate. Most procedures in standard statistical packages, such as SAS, STATA, and SPSS, are not appropriate for analyzing data from complex survey designs, such as the NBS—General Waves design. These procedures assume independent, identically distributed observations or simple random sampling with replacement. Although the simple random sample variance may approximate the true sampling variance for some surveys, it likely underestimates substantially the sampling variance with a design as complex as that used for the NBS—General Waves. Complex sample designs have led to the development of a variety of software options that require the user to identify essential design variables such as strata, clusters, and weights.

The most appropriate sampling variance estimators for complex sample designs such as the NBS—General Waves are the procedures based on the Taylor series linearization of the nonlinear estimator that use explicit sampling variance equations and procedures based on forming pseudo-replications of the sample. The Taylor series linearization procedure is based on a classic statistical method in which a nonlinear statistic may be approximated by a linear combination of the components within the statistic.

96 The composite weight for the combined sample does not incorporate cases from the longitudinal SWS; analyses that use R7_WTR7_COM will exclude the longitudinal population of successful workers.

97 A website that reviews software for variance estimation from complex surveys, created with the encouragement of the Section on Survey Research Methods of the American Statistical Association, is available at https://www.hcp.med.harvard.edu/statistics/survey-soft/. The site lists software packages available for personal computers and provides direct links to the home pages of the packages. The site also contains articles and links to articles that provide general information about variance estimation as well as links to articles that compare features of the software packages.

98 Pseudo-replications of a specific survey sample, as opposed to true replications of the sampling design, involve the selection of several independent subsamples from the original sample data with the same sampling design. The subsamples may be random (as in a bootstrap) or restricted (as in balanced repeated replication).
The accuracy of the approximation depends upon the sample size and the complexity of the statistic. For most commonly used nonlinear statistics (such as ratios, means, proportions, and regression coefficients), the linearized form has been developed and has good statistical properties. Once a linearized form of an estimate is developed, the explicit equations for linear estimates may be used to estimate the sampling variance. The sampling variance may be estimated by using many features of the sampling design (for example, finite population corrections, stratification, multiple stages of selection, and unequal selection rates within strata). This is the basic variance estimation procedure used in all SUDAAN procedures as well as in the survey procedures in SAS, STATA, and other software packages that accommodate simple and complex sampling designs. To calculate the variance, sample design information (such as stratum, analysis weight, and so on) is needed for each sample unit.

Currently, several survey data analysis software packages use the Taylor series linearization procedure and explicit sampling variance equations. Therefore, we developed the variance estimation specifications needed for the Taylor series linearization (PseudoStrata and PseudoPSU). Appendix K provides example code for the procedure with SAS and the survey data analysis software SUDAAN. Details about SAS syntax are available from the SAS Institute (2015). Details about SUDAAN syntax are available from RTI International (Research Triangle Institute 2014).

D. Codebook

To aid the user, Mathematica developed a codebook for the Restricted Access File: “The National Beneficiary Survey—General Waves: Round 7 Restricted Access File Codebook” (McDonald et al. 2021). This codebook is available from SSA to Restricted Access file users. The Public Use File codebook will be available on SSA’s website (https://www.ssa.gov/disabilityresearch/publicusefiles.html).

The codebooks provide extensive documentation for each variable on the file including variable name, label, position, variable type and format, question universe, question text, number of cases eligible to receive each item, constructed variable specifications, and user notes. The codebooks include frequency distributions and means as appropriate.

99 The example code provided in Appendix K is for simple descriptive statistics using the procedures DESCRIPT in SUDAAN and SURVEYMEANS in SAS. Other procedures in SAS (SURVEYREG, SURVEYFREQ, and SURVEYLOGISTIC) and in SUDAAN (CROSSTAB, REGRESS, LOGISTIC, MULTILOG, LOGLINK, and SURVIVAL) are available for complex analyses. Given that SUDAAN was created specifically for survey data, the range of analyses that may be performed with these data in SUDAAN is much wider than that in SAS.
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REFERENCES


Appendix A

Total Survey Error and the National Beneficiary Survey—General Waves
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I. Introduction

Total Survey Error (TSE) is a framework for systematically considering the accumulation of error across different phases of the survey process, including survey design, administration, data processing, and data analysis (Biemer 2010). At each phase, errors in coverage, specification, nonresponse, measurement, and data processing can negatively impact data quality and increase the bias and variance of population estimates, resulting in questionable findings. We designed the National Beneficiary Survey—General Waves data collection to minimize the size of these errors within the cost constraints of the survey. In doing so, we identified the sources of error most likely to affect estimates for this population and survey and focused on design features that would mitigate these errors, keeping in mind that tradeoffs often occur in the process of error reduction. For example, increasing efforts to persuade reluctant sample members can result in larger measurement error and increase bias in estimates.

We focus this discussion on nonsampling error, which is not related to sampling or coverage error (error that occurs when the sampling frame does not represent the target population). In Table A.1, we provide a brief description of the different types of nonsampling error, as described by Biemer (2010). We did not discuss errors related to sampling because we assume this type of error is minimal in the NBS.

<table>
<thead>
<tr>
<th>Sources of error</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specification</td>
<td>Error that results when the concept intended to be measured by the question is not the same as the concept the respondent ascribes to the question.</td>
</tr>
<tr>
<td>Unit nonresponse</td>
<td>Error that occurs when the selected sample member is unwilling or unable to participate (failure to interview). Can result in increased variance and potential for bias in estimates if nonresponders have different characteristics than responders.</td>
</tr>
<tr>
<td>Item nonresponse</td>
<td>Error that results when items are left blank or the respondent reports that he or she does not know the answer or refuses to provide an answer (failure to obtain and record data for all items). Can result in increased variance and potential bias in estimates if nonresponders have different characteristics than responders.</td>
</tr>
<tr>
<td>Measurement error</td>
<td>Errors that occur as a result of the respondent or interviewer providing incorrect information (either intentionally or unintentionally). May result from inherent differences in interview mode.</td>
</tr>
<tr>
<td>Data processing errors</td>
<td>Errors in data entry, coding, weighting, and/or analyses.</td>
</tr>
</tbody>
</table>

In the case of the NBS, we made efforts to reduce errors stemming from all of these sources, but placed particular importance on reducing unit nonresponse and measurement error. We did this largely because persons with disabilities, particularly those receiving SSI, are often hard to reach and interview. Additionally, sample members had a wide range of disabilities, including physical and cognitive impairments. We were keenly aware of the need to design the survey in a way that would minimize errors in reporting. For example, a respondent with a cognitive impairment may inaccurately report information because he or she is unable to remember specific dates, times, or the amount of money received from different sources, thus introducing the potential for measurement error. Similarly, an individual with a physical limitation that causes fatigue may become tired during the survey effort and misreport information. Alternatively, someone answering the survey on behalf of the sample person may provide different responses than the individual would have given. Thus, we designed the survey with accessibility in mind and weighed the cost and benefits of approaches to foster inclusion and adequate representation.
of this population. We paid special attention to the instrument design, reducing barriers to survey response, and interviewing procedures. In Table A.2, we summarize the key sources of error identified on the NBS, our procedures for mitigating each error, and our assessment of its relative impact on data quality. We follow with a detailed discussion of each source of error and the efforts taken to minimize impact on the survey data.

Table A.2. Key sources of error and relative impact on data quality

<table>
<thead>
<tr>
<th>Potential source of error</th>
<th>Mitigation</th>
<th>Assessment of relative impact on NBS data quality and priority&lt;sup&gt;100&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit nonresponse</td>
<td>Assurances of confidentiality, $30 incentive, Dual mode, Intensive locating effort before and during field period, Refusal avoidance, Use of proxy and accommodations, Computed adjusted weights</td>
<td>Medium</td>
</tr>
<tr>
<td>Item nonresponse</td>
<td>Assurances of confidentiality, Offering ranges rather than mandating a numeric response, Allowing interviewer to assist with arithmetic, Include definitions and probes</td>
<td>Low</td>
</tr>
<tr>
<td>Specification error</td>
<td>Cognitive testing of items and pretesting, Interviewing debriefing and revisions between rounds, Use of validated questions</td>
<td>Low</td>
</tr>
</tbody>
</table>

<sup>100</sup> We based prioritization on the extent to which we were able to mitigate each potential source of error prior to the initiation of data collection. We could typically observe sources of error having a low impact on data quality and were able to remedy the situation. We believe these sources of error have had minimal effects on data quality. We also believe medium impact items may have had some impact on data quality, despite the mitigation strategies employed. In some cases, these sources of error are difficult to identify proactively.
### Table A.2 (continued)

<table>
<thead>
<tr>
<th>Potential source of error</th>
<th>Mitigation</th>
<th>Assessment of relative impact on NBS data quality and priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement error</td>
<td><strong>Respondent based</strong></td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>Instrument design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Use of assistant or proxy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interviewer encouragement and check-ins</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Use of hard and soft edits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Assurances of confidentiality</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Interviewer based</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interviewer recruitment, hiring, and training</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intensive interviewer monitoring (CATI)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interviewer debriefing and re-training, as necessary</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Instrument related</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cognitive testing and pretesting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Early frequency review</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Instrument testing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Instrument identical in each mode</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Environment related</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reduction of noise distractions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Working with respondent availability</td>
<td></td>
</tr>
</tbody>
</table>
II. Sources of Error

A. Unit nonresponse

Unit nonresponse occurs when a sample member does not participate in the survey. This may occur because the sample member does not want to participate (refuses), has an impairment that precludes participation, or simply cannot be located. When unit nonresponse is high, there is potential for bias if responders have different characteristics than nonresponders. For example, if unit nonresponse is high among individuals with more severe disabilities, the results about employment may be biased.

Minimizing unit nonresponse on the NBS

- The NBS was designed as a dual-mode survey to provide varied opportunities to find, contact, and interview beneficiaries. Mathematica made all initial attempts by telephone using Computer-Assisted Telephone Interviewing (CATI). If we could not locate and contact a sample person by telephone, a field locator was deployed to make contact in person. Once located, the field locator attempted to facilitate an interview with the sample person via CATI, using a staff cell phone to call into the data collection center. If a sample member could not complete the interview by telephone in this manner due to his or her disability, trained field staff could conduct the interview in person using Computer-Assisted Personal Interviewing (CAPI) (for clustered SWS cases and RBS cases). We reserved the CAPI mode for situations in which respondents were unable to complete the interview by telephone. In Round 7, no respondents requested the use of CAPI. Using field locators and interviewers only as a follow-up for nonresponders offered significant cost savings and provided a balance between cost and maximizing response.

- Interviewers were trained extensively in refusal avoidance techniques. This included reviewing frequently asked questions as well as role-playing refusal avoidance. During CATI interviewing, monitors provided interviewers with real-time feedback and suggestions related to refusal avoidance. In addition, field managers maintained regular contact with field locators and interviewers and provided recommendations for gaining the sample members’ cooperation. In our refusal conversion effort, we mailed refusal conversion letters to sample members who declined being interviewed.

- We conducted extensive locating efforts in advance of and throughout the data collection period. This included LexisNexis/Accurint searches prior to and during the data collection period, reverse directory look-ups, and intensive case-by-case efforts by in-house locating staff. If a telephone number could still not be located, we sent the case to a field interviewer for in-person locating. On average, we spent an hour of effort on cases that required locating.

- An advance letter mailed to all sample members prior to data collection promised a $30 monetary incentive to help reduce nonresponse. In each correspondence, we assured sample persons that their individual responses would be kept confidential. We reiterated this at the start of the interview and as needed throughout.

We attempted to reduce barriers to participation in the survey by providing options to conduct the survey using Telecommunications Relay Service (TRS) or interviewing the sample individual in person.
If a sample member could not respond to the survey due to a severe cognitive impairment, we permitted an assisted or proxy interview. We determined the need for such an interview using an innovative cognitive screener administered to all sample members prior to the start of the survey.\footnote{At the beginning of the survey, we asked sample members three questions focused on the topics of the survey and the concepts of confidentiality and voluntary participation. We then asked them to restate the information, in their own words. If the sample member fails to accurately restate the information for one or more items, we obtained a proxy.}

We computed adjusted weights for two phases of nonresponse (location and completion). In our experience with the NBS, factors associated with the inability to locate a person tend to differ from factors associated with cooperation. The unlocated person generally does not deliberately avoid or otherwise refuse to cooperate. For instance, that person may have chosen not to list his or her phone number or may frequently move from one address to another, even though there is no evidence to suggest that, once located, he or she would show a specific unwillingness to cooperate with the survey. Located nonrespondents, on the other hand, may deliberately avoid the interviewer or express displeasure or hostility toward surveys in general, or SSA in particular. Thus we calculated the adjustment factor in two stages: (1) by estimating a propensity score for locating a sample member and (2) by estimating a propensity score for response among these located sample members. We have made available a full discussion of the impact of nonresponse bias and adequacy of the nonresponse adjustments in the National Beneficiary Survey Round 7: Nonresponse Bias Analysis (Grau et al. 2021).

### B. Item nonresponse

Item nonresponse occurs when a respondent indicates that he or she does not know the answer to a question or refuses to provide an answer to the question. High levels of nonresponse on a particular survey item can result in increased variance of the estimate for that item and, when nonresponse is sufficiently high, the end user can render the survey item useless.

Item nonresponse occurs for a myriad of reasons including, but not limited to, a true lack of knowledge, lack of desire to answer items perceived as “too personal,” inability to comprehend the question, inability to recall specific information, difficulty providing responses within the prescribed response categories, or disinterest in the survey item.

#### Approaches to minimizing item nonresponse on the NBS

- Although few items in the NBS were sensitive, items were included that asked respondents to report on alcohol and drug use and on earnings. To alleviate concerns about sharing sensitive information with SSA or other external parties, we assured respondents at the beginning of the interview that all the information they provided would be kept confidential, and interviewers reiterated this as necessary during the interview.
- If respondents refused to answer, or responded “don’t know” to questions about earnings, we probed with a follow-up question asking respondents to identify in which range their income fell.
- Within the survey instrument, we made probes and definitions available to the interviewer to read, as necessary. For example, sample members are often unclear about whether they have Medicare or Medicaid insurance and may require additional information to help them answer the question.
• We allowed sample members to receive assistance with survey questions if they lacked the information necessary to answer the question. For example, a sample member may not know what month and year he or she started a particular program. If a knowledgeable person was available at the interview, we allowed the sample member to ask the person for help answering the item.

• We administered the NBS data collection instruments with computer-assisted interviewing (CAI) technology, which allowed the use of automated routing to move to the applicable questions and perform checks of the entered data for consistency and reasonableness during the interview. In addition, because CAI does not permit a question to be left blank, the interviewer could not proceed until an appropriate response was entered. (We included “don’t know” and “refused” as response options and used as necessary.) These processes substantially reduced the extent of item nonresponse for this survey, although some nonresponse persisted when, for example, the interviewer recorded a “don’t know” or “refused” as a response. For key items that we identified in advance as critical to analyses, we imputed missing data primarily using two methods of imputation to compensate for item nonresponse: deductive (or logical) imputation and unweighted hot-deck imputation.

We would like to note that we did not ask proxy respondents certain subjective questions that pertained to satisfaction with services and what respondents knew and did not know about specific programs. We did this to minimize bias resulting from measurement error because proxies would not be able to report accurately on such items. However, doing so resulted in higher nonresponse for these items. Additionally, it is possible that more impaired respondents (those who required a proxy) would have systematically reported more or less satisfaction with or knowledge of services than those who responded to these items. We are not certain if this bias occurred and, if so, in what direction.

C. Specification error

Specification error occurs when the intended concept of a question is not what the respondent actually considers when formulating a response. This can result in data that lack internal validity; that is, we did not measure what was intended to be measured.

**Approaches to minimizing specification error on the NBS**

• Developers of the initial NBS included cognitive and pretest testing to determine how respondents interpreted key questions before responding. We made modifications to the questionnaire based on these initial findings. We made additional modifications prior to Round 6 of the General Waves to accommodate changes in reference periods and in federal programs.

• Whenever possible, we used existing and well-validated items making minor modifications as needed to suit the population and topic. We took many questions from SSA surveys or from other federal agency-conducted surveys. We obtained others, such as the SF-8™ scale, with licensing agreements.

• In the early stages of NBS interviewing, both CATI and CAPI interviewers participated in a series of debriefings designed to provide the research team with more information about what was working well with the survey and whether there were still items that were difficult or confusing for the respondent to answer. Based on these discussions, we added probes and definitions to clarify questions, if needed.

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102 Westat conducted cognitive testing under a separate contract.
• We translated the NBS into Spanish and trained and certified bilingual interviewers to administer the instrument to minimize language comprehension problems for Spanish-speaking respondents. In 117 cases across the RBS and SWS, the potential respondent could not complete the language in either English or Spanish. Because there were so few cases, we did not attempt to conduct interviews with these respondents. Bias may result from excluding these sample members; however, we believe error resulting from this source is negligible, given the low occurrence.

D. Measurement error

Measurement error occurs when the response provided differs from the real value. Such error can be the result of characteristics or actions of the respondent or interviewer or characteristics of the survey instrument or the environment. In this section, we discuss each source (respondent, interviewer, instrumentation, and environment) and follow with a description of efforts taken to minimize their impact in the NBS.

1. Respondent-based measurement error

Respondents may contribute to TSE by providing, knowingly or unknowingly, inaccurate responses to survey questions. This can occur for many reasons, including challenges associated with recall, a desire to please the interviewer, or a lack of interest in the survey. Our particular focus with this survey was on reducing respondent-based measurement error because many NBS sample members had mental and physical impairments that could make processing of information and providing a response difficult. Such impairments included brain injuries, intellectual disabilities, autism, psychiatric disorders, and hearing and speech impairments. Our challenge was to collect detailed, accurate information during a lengthy interview from individuals with a variety of health conditions and impairments. We identified several barriers to successful interviewing, including cognitive and stamina issues, and identified methods to overcome them.

Approaches to minimizing respondent-based measurement error on the NBS

• An important component of offsetting cognitive and stamina barriers was careful attention to instrument design, including the use of structured probes, simplifying questionnaire wording, and adding suggested stopping points. We also conducted specialized interviewer training designed to sensitize interviewers to common challenges associated with telephone interviews of persons with disabilities. In addition, as mentioned above, we trained interviewers to identify and use appropriate accommodations such as TRS and amplifiers to minimize challenges associated with interviewing persons with speech or hearing impairments.

• When necessary, we allowed respondents to receive assistance from someone knowledgeable (such as a parent or other family member) for items that were particularly challenging, such as providing names of services received, amount of earnings, insurance type, and so on. For some items, we allowed the interviewer to assist the respondent with mathematical calculations. For example, we allowed the interviewer to sum values the respondent provided to generate the single monetary amount to enter as the response.

• If a respondent’s cognitive barrier was such that we had reason to doubt his or her ability to comprehend the nature of the survey, we sought a proxy respondent. We determined this through the administration of a cognitive screener (administered to all respondents) or through information gathered by a knowledgeable gatekeeper. We wish to note that the cognitive screener we used for the
NBS has not been formally validated against another comparable measure. Thus, although the purpose of the screener was to standardize interview assessments of respondents’ cognitive abilities, we do not know how many false positives (screening people out who could have completed the survey) and false negatives (screening people who may not have understood the survey question) we obtained. We do not know the extent to which this may have contributed to measurement error. Bias may have been introduced by proxies who provided information that was not as accurate as what the sample person could have provided on his or her own. Conversely, a sample member may have provided erroneous answers if they participated when he or she did not comprehend the questions.

- Respondents, particularly those with severe health impairments, may become fatigued or disinterested during the survey. As a result, they may not fully process each question, but rather simply provide the same response to a series of like items, regardless of the accuracy of their responses. We trained interviewers to recognize the signs and to “check in” with the respondent to see if a rest break was needed or to encourage participation to complete the survey, if nearing the end of the survey. We also trained interviewers to set call-back appointments for times in which the respondent would be most alert, and to break the interview into segments, rather than completing it in one session, when necessary.

- We included items in the NBS that asked respondents about events that had occurred in the prior year. We employed several techniques to aid respondent recall, including pre-filling state agency names, state Medicaid names, and names of providers from which the respondent received services. In addition, we assured respondents that their best estimates were fine when they were asked to provide earnings or income information and we allowed them to report in whatever unit was easiest for them (for example, hourly, weekly, biweekly, monthly, or annual income).

- We incorporated hard and soft edits into the survey instrument to identify potential errors in respondent reporting as well as potential error in interviewer data entry. If a respondent reported discrepant information or an out-of-range value, a soft or hard edit would appear, instructing the interviewer to further question the respondent to gather the current information (or to note an exception explaining the reported information).

- Finally, to reduce beneficiaries’ concerns that we will share individual responses with SSA or others beyond the project team, we sent an advance letter to all sample persons assuring beneficiaries that their individual responses would be kept confidential. Interviewers reiterated this at the start of the interview and as needed throughout.

2. **Interviewer-based measurement error**

Interviewers can also negatively impact data quality. Simple examples of this are when an interviewer does not read an optional probe that could be useful to the respondent, and when no probe is available and the interviewer decides to explain, in his or her own words, the meaning of the question. In both instances, the respondent’s ability to answer accurately is jeopardized because, in the former case, there is a lack of clarifying information and, in the latter case, a respondent could potentially give the wrong information. Only through careful interviewer recruitment, hiring, training, supervision, monitoring, and feedback can interviewer error be minimized.

**Approaches to minimizing interviewer-based measurement error on the NBS**

In a first step towards reducing interview-based error, we recruited and hired high-quality interviewers. The vast majority of CATI and CAPI interviewers had experience interviewing on previous rounds of the
NBS or had worked on other disability-related projects at Mathematica. We selected interviewers on the basis of their performance on comparable studies, expertise in locating and gaining cooperation from sample members, demonstrated reliability, skills in communication and accurate reading and recording, and an aptitude for the administrative and reporting requirements of survey work. We made certain that all interviewers went through criminal background checks and received security clearance from SSA.

- Interviewer training was intensive and thorough. When first hired, Mathematica provides interviewers with an eight-hour training in the best practices of standardized interviewing. In addition to basic interviewing techniques, interviewers practice how to engage respondents by stating the purpose and the importance of the survey and by stressing confidentiality. Interviewers also develop the skills needed to collect accurate and complete data: reaching the correct respondent and recording answers carefully and completely. Training also covers recording the results of each contact attempt into the CATI system and using this information effectively in a subsequent contact attempt. In addition, Mathematica provided telephone interviewers with a two-day training, and in-person interviewers received a two-day, project-specific training. In training, we covered the following: a general project overview, a description of data collection and the sample, sensitivity awareness related to interviewing persons with a disability, frequently asked questions and refusal avoidance, conducting assisted and proxy interviews, probing for medical condition, probing for occupation, and a question-by-question walkthrough of the instrument. We provided in-person locators and interviewers with additional training on field-related activities, such locating and tablet management. We also required interviewers were required to pass a certification process before they were qualified to conduct interviews.

- During data collection, the Survey Operations Center supervisors and members of the research team continuously monitored the telephone interviewers. They monitored a minimum of 10 percent of all calls each telephone interviewer made by listening to live and recorded interviews, and viewing CATI screen movement. They recorded information about communication with the sample member or proxy (verbal clarity, ease of dialogue), data entry accuracy, and any problems that they observed or heard, and provided feedback to interviewers immediately at the end of the interview.

- We did not monitor in-person field interviewers live. Because in-field monitoring is costly (involving sending a second interviewer on visits or special equipment), we instead required all interviewers to be certified before interviewing began and validated all of the field interviews. During the certification process, we required interviewers to practice several mock interviews with a trainer (including activities that should occur before and after interviewing, per the interviewing protocol). Once judged proficient by an interviewing supervisor, the supervisor deemed the interviewer certified. Validation of interviews involved contacting respondents (by mail and phone) and asking questions about the length of the interview, the types of questions asked, and whether a computer was used. If a respondent reported information that raised concerns; for example, interview took 10 minutes or no computer was used, the interviewer’s field manager contacted the interviewer for an explanation. Field managers found no interviews to be fraudulent.

3. Instrument-related measurement error

A poorly designed instrument can increase measurement error. Questions lacking clarity, confusing instructions, and terms that are easily misunderstood can result in respondents reporting erroneous information or interviewers providing unclear instructions. Further, because NBS was administered via
both CATI and CAPI, programming errors and mode effects could have contributed to overall survey error.

Approaches to minimizing instrument-related measurement error on the NBS

• As mentioned previously, in prior rounds, we put the survey through extensive cognitive testing and pretesting prior to fielding. Pretesting allowed a full review of the interviewing process, including the introduction, screening respondents, and conducting the full interview.

• Mode of data collection, telephone versus in person, may result in differences in the quality of data collected. To minimize mode effects for this survey, the questionnaire was identical in each mode. Because both modalities involved an interviewer and few items were sensitive, we expected mode effects to be minimal.

• We conducted intensive testing of both the CATI and CAPI instruments prior to the start of data collection to minimize errors associated with programming. In Round 5 testing, we focused on changes made to the instrument since the previous data collection round. We gave testers testing scenarios and asked them to note issues regarding skip patterns, prefill information, question wording, and answer options. Once testing was completed, programmers made modifications and we conducted a final review.

• We conducted a frequency review of the first 293 completed cases, which focused on identifying both potential skip-pattern and data-entry issues. We addressed problems through programming changes or interviewer retraining. We conducted additional frequency reviews throughout the data collection period.

4. Environment-related measurement error

In some cases, the environment may impact the respondent’s ability to be attentive and provide accurate responses or the interviewer’s ability to conduct the interview in a smooth, coherent fashion. For example, a respondent holding a crying baby during the interview will likely distract both the respondent and the interviewer and can make questions difficult to hear, process, and answer. The result could be high levels of item nonresponse or the provision of erroneous information by the respondent.

Approaches to minimizing environmental-related measurement error on the NBS

• We trained interviewers to assess the environment before and during the interview to determine whether a noise distraction such as other individuals in the area or a television was interfering with the interview process. If the interviewer determined that such a distraction existed, interviewers made every attempt to change the environment through polite suggestions, such as relocating to another available space or asking if the distraction could be minimized for the duration of the interview.

• We also trained interviewers to conduct the interview at a convenient time for the sample member and to suggest a call-back if respondents did not want to participate when called or needed to stop the interview before finishing.

• Ensuring respondents’ privacy during the interview was essential to gathering accurate answers. We trained interviewers to be aware of cues that the respondent was concerned that others could hear their responses. If such instances occurred, interviewers suggested changing the conditions of the interview, such as relocating to a different part of the house or turning away from an area.
5. Data processing error

Errors in data processing can occur as a result of errors in data entry, coding, or weighting or analysis activities.

Approaches to minimizing data processing errors on the NBS

- We incorporated a number of hard and soft edits into the CAI program to minimize data entry errors during the interview. For example, if the interviewer entered a date in the future, a hard edit appeared that prompted him or her to correct the mistake. If a respondent reported a large discrepancy between pre- and post-tax pay, a soft edit appeared prompting the interviewer to confirm what he or she had entered.

- Several questions in the NBS required coding of verbatim response, including items about disabling conditions, occupation and industry, and items allowing an “other” response. To ensure consistent coding of verbatim responses, we conducted a comprehensive coder training. Research staff or an operations supervisor reviewed a minimum of 10 percent of all coded items. Coders referred all questions to a supervisor and then logged coding decisions for future reference. Details of the coding procedures can be found in the National Beneficiary Survey Round 7: Editing, Coding, Imputation, and Weighting Procedures (Grau et al. 2021).

- Although developers programmed (in Blaise) the questionnaire to delete all responses that go off-path if an interviewer backs up and changes a response, we wanted to ensure that all such data were cleared from the instrument. Consequently, we conducted an intensive review of the survey data, including running several edit checks to identify consistency or skip-pattern problems. We edited improbable or out-of-range responses and imputed missing data on key items. If we identified systematic errors, we revised items in subsequent rounds.

- As part of a quality-assurance process, a senior statistician reviewed code used to create participant, beneficiary, and combined weights, as well as imputation code. In some cases, the review resulted in revising the code and recreating weights or imputed values, while others required further explanation by the project statistician.
III. The Impact of TSE on Data Quality for the NBS

The cumulative impact of TSE is difficult to measure. To evaluate the impact of TSE on NBS estimates, we examined various indicators of data quality where we reasonably could, namely for the purposes of assessing the impact of unit nonresponse, item nonresponse, and measurement error.

A. Unit nonresponse

Because we obtained fewer than the targeted number of completes in most sampling strata at Round 7 and achieved low response rates relative to Rounds 1 through 4, we were particularly concerned about unit nonresponse error and bias. We conducted nonresponse bias analyses at the conclusion of data collection for both the RBS and SWS, using all 11,299 sample cases in the RBS, all 8,590 sample cases in the cross-sectional SWS, and 3,712 sample cases in the longitudinal SWS, to determine if there were systematic differences between respondents and nonrespondents that could result in nonresponse bias (Grau et al. 2021). In sum, our analysis indicates that differences did exist between responders and nonresponders among variables that were not controlled for in the sample design. However, the nonresponse adjustments to the weights alleviated all known differences observed in the samples. Some estimates from respondents using nonresponse-adjusted weights differed from the values in the sampling frame, but these mirrored differences that existed between the sampling frame and the entire sample using the initial sampling weights.

B. Item nonresponse

As we expected, item nonresponse was not substantial. It was less than 5 percent for all items, with the exception of those asking for wages and household income. (Household income was the highest with 37 percent missing data.) We imputed missing data for key items that had been identified in advance as critical to analyses.

C. Measurement error

We have little ability to evaluate the impact of measurement error on the NBS. The best test would be to compare survey responses to an external data source such as SSA administrative data. However, few items are available for this type of analysis (namely insurance type and participation in SSA programs).

In Round 4 of the NBS, we conducted an experiment to compare data collected via CATI and CAPI as a means to assess the impact of interview mode on quality. Evidence from this study suggests that mode of interview had a modest impact on data quality for this population.

In Round 7, no respondents requested a CAPI interview. This eliminated mode effects because all interviews were completed by telephone.

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103 Mathematica, in a separate contract with the National Institute on Disability and Rehabilitation Research, now known as the National Institute on Disability, Independent Living, and Rehabilitation Research, funded this experiment.
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Appendix B

Availability of NBS Variables on The Restricted Access and Public Use Data Files
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Table B.1. Availability of NBS variables on the restricted access and public use data files

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Variable Label</th>
<th>Restricted Access</th>
<th>Public Use</th>
</tr>
</thead>
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### Table B.1 (continued)

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<td>Limited b/c of Phys/Mental Condition</td>
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<tr>
<td>R7_B3</td>
<td>Limited by Other Phys/Mental Conditions</td>
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<td>R7_B5</td>
<td>Currently Receiving Benefits</td>
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<tr>
<td>R7_B7</td>
<td>Eligible for Other Reasons</td>
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<td>R7_B9</td>
<td>Received Benefits In Last 5 Yrs</td>
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<td>R7_B11</td>
<td>Still Have Conditions That Made Elig</td>
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<td>R7_B13</td>
<td>Previously Eligible for Other Reasons</td>
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<td>R7_B16</td>
<td>Limited by Other Conds When First Received Benefits</td>
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<tr>
<td>R7_B18_age</td>
<td>Age First Became Limited</td>
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<td>R7_B18_year</td>
<td>Year First Became Limited</td>
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<td>R7_B19</td>
<td>Limited Before 19</td>
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<td>R7_B22</td>
<td>Working For Pay When First Limited</td>
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<td>Able to do Same Kind of Work as Before Benefits</td>
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## Table B.1 (continued)

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<td>Job Before Receiving Benefits Require Comp Use</td>
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<td>Worked for Pay or Profit in Last 6 Months</td>
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<td>R7_B24C</td>
<td>Interviewing Only People Working or who Worked in past 6 Months</td>
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<td>R7_B28</td>
<td>Looked for Work in Last 4 Weeks</td>
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<td>R7_B28a</td>
<td>Looking for Part or Full Time Work</td>
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<td>R7_B28b</td>
<td>Hours per Week Would Like to Work</td>
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<td>Contacted Unemployed Office to Look For Work</td>
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<tr>
<td>R7_B29_b</td>
<td>Contacted Friends/Relatives to Look For Work</td>
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<tr>
<td>R7_B29_c</td>
<td>Looked at Ads to Look For Work</td>
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<td>R7_B29_d</td>
<td>Contacted State VR to Look For Work</td>
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<td>R7_B29_e</td>
<td>Contacted Indep Living Center to Look For Work</td>
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<td>R7_B29_f</td>
<td>Contacted Employ Agency to Look For Work</td>
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<td>Contacted Former Employer in Person, by Mail or Email, or by Phone to Look For Work</td>
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<td>Contacted Employers to Look For Work</td>
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<td>R7_B29_h</td>
<td>Did Something Else to Look For Work</td>
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<td>Turned Down Job Offered within Past 4 weeks</td>
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<td>Declined Job Offer b/c No Help Caring for Others</td>
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<td>Declined Job Offer b/c Job Did Not Pay Enough</td>
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<td>Declined Job Offer b/c No Health Insurance Benefits</td>
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<td>Declined Job Offer b/c Would Have Lost Benefits (SS, Medicaid, etc.)</td>
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<td>R7_B25_m</td>
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<td>R7_B25_n</td>
<td>Not Working b/c No Special Equipment or Devices</td>
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<td>R7_B25_o</td>
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<tr>
<td>R7_BP3_b</td>
<td>Not Working b/c Lacks Physical Energy or Stamina for Work</td>
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<td>Not Working b/c Severe Pain Interferes with Job</td>
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<tr>
<td>R7_BP3_d</td>
<td>Not Working b/c Work at Job too Stressful</td>
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<td>Received Help with Children or Family Care</td>
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<td>Used Special Equipment or Devices</td>
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<td>Special Equipment or Device - Brace</td>
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<td>Special Equipment or Device - Cane/Crutches/Walker</td>
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<td>Special Equipment or Device - Wheelchair</td>
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<td>Special Equipment or Device - Modified Computer Hardware</td>
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<td>Special Equipment or Device - Other</td>
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<td>Anyone Helped Find or Keep Work</td>
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<td>Anyone at Main/Current Job Know about Disability</td>
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<td>Co-Workers Know about Disability</td>
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<td>Manager, Supervisor, Boss Know about Disability</td>
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<td>Human Resources Know about Disability</td>
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<td>Anyone Else Knows about Disability</td>
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<td>How Comfortable Discussing Disability with Others at Main/Current Job</td>
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<td>Other People with Disabilities Work at Job</td>
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<td>R7_C33_a</td>
<td>Employer Provided Special Equipment</td>
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<td>Employer Made Changes to Schedule</td>
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<td>Employer Made Changes to Tasks</td>
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<td>Employer Made Changes to Environment</td>
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<td>R7_C33_e</td>
<td>Employer Arranged for Co-Workers to Assist</td>
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<td>Employer Made Other changes</td>
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<td>Changes Need But Not Made</td>
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<td>Need Special Equipment at Current Workplace</td>
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<td>Need Changes to Work Schedule at Current Workplace</td>
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<td>Need Changes to Tasks at Current Workplace</td>
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<td>Need Changes to Environment at Current Workplace</td>
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<td>Need Co-Workers to Assist at Current Workplace</td>
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<td>Other Changes Needed</td>
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<td>Asked for Changes</td>
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<td>Anything Special About Main/Current Job that Helps You Keep Working</td>
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<td>Modified Job Duties Help to Keep Working</td>
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<td>Worked Less/Stopped Working Due to Health Problems</td>
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<td>R7_CP13a1_1</td>
<td>Health - Existing Health Problem Gets Worse</td>
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<td>Health - New Health Problem Starts</td>
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<td>Health - Got Injured</td>
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<td>Health - Job has Negative Impact on Health</td>
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<td>Health - Need to be Hospitalized</td>
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<td>Health - Needs Time to Go to Medical App.</td>
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<td>Health - Gets Fired for Missing Too Much Time for Apps.</td>
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<td>Health - Health Interferes with Job Performance</td>
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<td>Health - Lack Strength, Physical Energy, and Stamina</td>
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<td>Health - Pain Interferes with Working Set Schedule</td>
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<td>R7_CP13a1_11</td>
<td>Health - Personal Care Takes Too Long</td>
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<td>Health - Health Status Fluctuates Unpredictably</td>
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<td>Health - Do not have Special Equipment or Medical Devices</td>
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<td>Health - Work is Too Tiring/Stressful</td>
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<td>R7_CP13a1_15</td>
<td>Health - Other</td>
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<td>Worked Less/Stopped Working Due to Job Problems</td>
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<td>R7_CP13b1_1</td>
<td>Job - Job does not Pay Enough</td>
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<td>R7_CP13b1_2</td>
<td>Job - Job does not Offer Health Insurance Benefits</td>
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<td>Job - Need a Different Schedule</td>
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<td>Job - Need Time for Medical Apps.</td>
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<td>Job - Got Fired for Missing too Much Time for Apps.</td>
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<td>Job - Health Interferes with Job Performance</td>
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<td>Job - Lacks Strength, Physical Energy, or Stamina</td>
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<td>Job - Work Schedule</td>
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<td>Job - Did not get Along with Co-Workers</td>
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<td>R7_CP13b1_24</td>
<td>Job - Did not get Along with Manager/Supervisor/Boss</td>
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<td>Job - Did not get Along with Human Resources</td>
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<td>Problems with Personal Circumstances in Past Year</td>
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<td>Personal Circumstances - Get Injured</td>
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<td>Personal Circumstances - Might Lose Benefits</td>
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<td>Personal Circumstances - Might Get Fired due to Behavior</td>
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<td>Personal Circumstances - Drug/Alcohol Relapse</td>
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<td>Personal Circumstances - Do Not Like Working</td>
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<td>Personal Circumstances - Moved to Another Area</td>
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<td>Might Help to Keep Working - Sign Lang. Interpreter</td>
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<td>Received Medical Services from a Hospital in 2018</td>
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<td>Received Medical Services from a School 2018</td>
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<td>Used Services to Increase Income</td>
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<td>R7_G53_6</td>
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<td>Used Services to Access Program</td>
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<td>Contacted Someone to Get Info About Services</td>
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<td>Services Needed But Not Received</td>
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<td>How Much Limited by Phy Probs in Past 4 Wks</td>
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<td>Difficulty Doing Daily Work b/c of Health</td>
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<td>How Much Bodily Pain in Past 4 Weeks</td>
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<td>How Much Energy Had During Past 4 Weeks</td>
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<td>How Much Phy/Emot Prob Limit Social Activities</td>
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<td>R7_I7</td>
<td>How Much Bothered by Emot Probs in Past 4 Weeks</td>
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<td>R7_I8</td>
<td>How Much Emot Probs Keep From Work</td>
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<td>Physical or Mental Condition Needs Recovery Time</td>
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<td>Rate Health in General Now</td>
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<td>In Past 12 Months Delayed or Skipped Getting Other Type of Medical Care</td>
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<td>How Often Had Someone Help with Daily Chores if Needed</td>
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<td>How Often Had Someone Help with Expenses if Needed</td>
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<td>R7_IP8c</td>
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<td>R7_IP8d</td>
<td>How Many Times Weekly Attend Meetings or Clubs</td>
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<td>Can Drive to Go Places</td>
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<td>R7_I73</td>
<td>Needed Larger Amts To Get Effect</td>
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<td>R7_I74</td>
<td>Have Emot/Phy Probs From Drugs</td>
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<td>R7_I75</td>
<td>Doctor Advised to Stop Using Non Prescrip Drugs</td>
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<td>R7_I76</td>
<td>Rec'd Treatment for Use of Non Prescrip Drugs</td>
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<td>R7_C_EquipFuncLim</td>
<td>Uses equipment/device for functional/sensory/communication limitation</td>
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<td>R7_J11_6</td>
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<td>R7_K8_g</td>
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<td>Inc From Vets Benefits More/Less Than $500</td>
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<td>Support Without Income or Gifts</td>
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<td>R7_C_NUMOWNCHILDDOHH_PUB</td>
<td>Number of Own Children Outside of Household (Public)</td>
<td>X</td>
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<tr>
<td>R7_C_NUMNONOWNCHILDHH_PUB</td>
<td>Number of Non-Own Children in Household (Public)</td>
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<tr>
<td>R7_C_NUMADULTHH_PUB</td>
<td>Number of Adults in Household (Public)</td>
<td>X</td>
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<tr>
<td>R7_C_FedPovertyLevel</td>
<td>2018 Federal Poverty Level</td>
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<tr>
<td>R7_C_FEDPOVERTYLEVEL_IFLAG</td>
<td>2018 Federal Poverty Level, Imputation Flag</td>
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<tr>
<td>R7_C_FEDPOVERTYLEVELCATEGORY</td>
<td>Federal Poverty Level Categories, Imputed</td>
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<tr>
<td>R7_M2a_Rlshp</td>
<td>How Proxy Related to SP</td>
<td>X</td>
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<tr>
<td>R7_M10a</td>
<td>Level of Survey Satisfaction</td>
<td>X</td>
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<tr>
<td>R7_M11</td>
<td>Respondent or Proxy Interviewed</td>
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<tr>
<td>R7_M11a</td>
<td>Method for Conducting Interview</td>
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<tr>
<td>R7_M12</td>
<td>Respondent Assisted During Interview</td>
<td>X</td>
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<tr>
<td>R7_M13</td>
<td>How Assistant/Proxy Related to SP</td>
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<tr>
<td>R7_M14</td>
<td>Why Assist/Proxy Needed</td>
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<tr>
<td>R7_M15</td>
<td>Respondent Intellectually Capable of Responding</td>
<td>X</td>
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<tr>
<td>R7_M16</td>
<td>Respondent's Answers Accurate</td>
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<tr>
<td>R7_M17</td>
<td>Respondent Understood Questions</td>
<td>X</td>
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<tr>
<td>R7_M18</td>
<td>Interview tiring For Respondent</td>
<td>X</td>
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<tr>
<td>R7_M19</td>
<td>Respondent Had Diff Hearing</td>
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<tr>
<td>R7_M20</td>
<td>Respondents Hearing Diff Affected Interview</td>
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<tr>
<td>R7_INCSOURCE1_PUB</td>
<td>Recvd Inc from Priv Dis, Work Comp, or Unemploy Last Month (Public)</td>
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<tr>
<td>R7_INCSOURCE2_PUB</td>
<td>Recvd Inc from Vet Ben or Public Assis Last Month (Public)</td>
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<tr>
<td>R7_INCSOURCE3_PUB</td>
<td>Recvd Inc from Priv Pension Last Month (Public)</td>
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<tr>
<td>R7_INCSOURCE4_PUB</td>
<td>Recvd Inc from Other Reg or Non-Reg Basis Last Month (Public)</td>
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<td>R7_INCSOURCE5_PUB</td>
<td>Recvd Inc from Food Stamps Last Month (Public)</td>
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<tr>
<td>R7_INCSOURCE6_PUB</td>
<td>Recvd Housing, Energy, Food, or Other Gov Assis Last Month (Public)</td>
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<tr>
<td>R7_INCSOURCE7_PUB</td>
<td>Recvd Inc From Social Security Last Month (Public)</td>
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<tr>
<td>R7_N_BENSTATATINT2</td>
<td>Beneficiary status at interview (if status is missing at the time of interview, we use SSA's administrative records at the time the sample was drawn) (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N_BFW_RECENT</td>
<td>Benefits forgone for work during most recent spell of eligibility as of interview date (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N_BIC_ATINT</td>
<td>Beneficiary identification code at interview (From SSA administrative records)</td>
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## Table B.1 (continued)

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<td>Disabled Adult Child (From SSA administrative records)</td>
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<td>R7_N_DEPEN_ATINT</td>
<td>SSDI dependent benefits due at interview (From SSA administrative records)</td>
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<td>R7_N_DEPENLASTMNTTH</td>
<td>SSDI dependent benefit payment amount last month (From SSA administrative records)</td>
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<tr>
<td>R7_N_DEPENLASTMNTTH_PUB</td>
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<td>R7_N_IMP_ENDO</td>
<td>Endocrine impairment (From SSA administrative records)</td>
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<td>R7_N_IMP_ID</td>
<td>Intellectual disability (From SSA administrative records)</td>
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<td>R7_N_IMP_INJ</td>
<td>Injury or poisoning (From SSA administrative records)</td>
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<td>R7_N_IMP_MISSING</td>
<td>Missing impairment (From SSA administrative records)</td>
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<td>R7_N_IMP_MUSC</td>
<td>Musculoskeletal impairment (From SSA administrative records)</td>
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<td>R7_N_IMP.neo</td>
<td>Neoplasm (From SSA administrative records)</td>
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<td>R7_N_IMP_NERV</td>
<td>Nervous system impairment (From SSA administrative records)</td>
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<td>R7_N_IMP_OTHER</td>
<td>Other impairment (From SSA administrative records)</td>
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<td>Psychiatric impairment (From SSA administrative records)</td>
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<td>Respiratory impairment (From SSA administrative records)</td>
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<td>Sensory impairment (From SSA administrative records)</td>
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<td>Medical improvement indicator at interview (From SSA administrative records)</td>
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<td>R7_N_MEDEX_ATSAMP</td>
<td>Medical improvement indicator at sampling (From SSA administrative records)</td>
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<td>Master file type (From SSA administrative records)</td>
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<td>R7_N_MTHSEARLENT</td>
<td>Months Since Earliest SSI or SSDI Entitlement Date (From SSA administrative records)</td>
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<td>R7_N_MTHSEARLENT_PUB</td>
<td>Months Since Earliest SSI or SSDI Entitlement Date (From SSA administrative records) (Public)</td>
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<td>R7_N_MTHSRECENT</td>
<td>Months since start of most recent SSI and/or SSDI spell of eligibility (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N_MTHSRECENT_PUB</td>
<td>Months since start of most recent SSI and/or SSDI spell of eligibility (From SSA administrative records) (Public)</td>
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<td>X</td>
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<td>R7_N_ONSETDATE_SSDI</td>
<td>SSDI onset date (From SSA administrative records)</td>
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### Table B.1 (continued)

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<td>SSI onset date (From SSA administrative records)</td>
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<td>R7_N_PIAATINT</td>
<td>Primary Insurance Amount (PIA) (From SSA administrative records)</td>
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<td>R7_N_PIAATINT_PUB</td>
<td>Primary Insurance Amount (PIA) (From SSA administrative records) (Public)</td>
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<td>R7_N_REPPAYEE</td>
<td>Representative Payee (From SSA administrative records)</td>
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<tr>
<td>R7_N_SSDI_ATINT</td>
<td>SSDI benefit due at interview (From SSA administrative records)</td>
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<tr>
<td>R7_N__SSDILASTMNTH</td>
<td>SSDI payment last month (From SSA administrative records)</td>
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<td>R7_N_SSDILastMnth_PUB</td>
<td>SSDI payment last month (From SSA administrative records) (Public)</td>
<td>X</td>
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<tr>
<td>R7_N__SSDINOMCR_ATINT</td>
<td>SSDI no Medicare at Interview (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N_SSI_ATINT</td>
<td>SSI benefit due at interview (From SSA administrative records)</td>
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<tr>
<td>R7_N__SSILASTMNTH</td>
<td>State and federal SSI payment last month (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N__SSILastMnth_PUB</td>
<td>State and federal SSI payment last month (From SSA administrative records) (Public)</td>
<td>X</td>
<td>X</td>
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<tr>
<td>R7_N_STW_ATINT</td>
<td>SSA benefits are in suspense or terminated because of work at interview (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N_STW_EVER</td>
<td>Ever experienced suspense or termination of cash benefits due to work (From SSA administrative records)</td>
<td>X</td>
<td>X</td>
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<td>R7_N_STW_MNTHS_RECENT</td>
<td>STW months during most recent spell of eligibility (From SSA administrative records)</td>
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<tr>
<td>R7_N_TOC_ATINT</td>
<td>Type of claim at interview (From SSA administrative records)</td>
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<td>R7_N_TOC_ATSAMP</td>
<td>Type of claim at sampling (From SSA administrative records)</td>
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<tr>
<td>R7_N__TOTSSBEN_ATINT</td>
<td>Total SSI and SSDI benefits due at interview (From SSA administrative records)</td>
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<tr>
<td>R7_N__TOTSSBENLASTMNTH</td>
<td>Total SSI and SSDI payment last month (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N_TotSSbenLastMnth_PUB</td>
<td>Total SSI and SSDI payment last month (From SSA administrative records) (Public)</td>
<td>X</td>
<td>X</td>
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<tr>
<td>R7_N__TTWMNTHS_ASSGN</td>
<td>Number of months since TTW ticket first assigned as of interview date (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N__TTWPART_ATINT</td>
<td>Ticket to Work participant at interview (From SSA administrative records)</td>
<td>X</td>
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<tr>
<td>R7_N__TTWPARTEVER</td>
<td>TTW participant ever (From SSA administrative records)</td>
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<td>R7_N_TTWPMT_TYPE</td>
<td>Ticket to Work payment type (From SSA administrative records)</td>
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<tr>
<td>R7_N_TTWPROV_TYPE</td>
<td>Ticket to Work provider type (From SSA administrative records)</td>
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Appendix C

Changes in Questionnaire Content Between NBS Round 6 and NBS–General Waves Round 7
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Table C.1. Changes in Questionnaire Content Between Round 6 and Round 7 NBS

<table>
<thead>
<tr>
<th>Item</th>
<th>Change</th>
<th>Reason</th>
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</thead>
<tbody>
<tr>
<td>Cross-cutting sections</td>
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<tr>
<td>Sections A, B, C, C_B, and D</td>
<td>Items modified</td>
<td>Throughout the Round 7 instrument, we added probes for SWS longitudinal sample members, acknowledging that we spoke to them in 2017, that we would like to conduct another interview, and that some questions may sound similar to 2017.</td>
</tr>
<tr>
<td>Sections B, C, C_B, D, and L</td>
<td>Items modified</td>
<td>In order to improve respondent and interviewer comprehension, we added clarifying text to the “bi-weekly” response option in questions that ask how often the sample member is paid. This response option now reads “Bi-weekly (every other week)” throughout the survey instrument.</td>
</tr>
<tr>
<td>Section A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1. Hello, my name is [NAME]. I’m calling on behalf of the Social Security Administration. May I please speak with {IF RTYPE=PROXY AND WE DON’T HAVE PROXY NAME: someone who can answer questions about [NAME]’s health, daily activities, and any jobs (he/she) might have?}, else: {FIRST NAME} {LAST NAME}?</td>
<td>Item modified</td>
<td>We added a description of a proxy for the interviewer to read when the name of a proxy was unavailable.</td>
</tr>
<tr>
<td>Section B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B36c. I’m going to ask you about reasons {you/NAME} might have left {your/his/her} last job. Did {you/NAME} leave this job because of {your/NAME’s} health, for example, because of worsening illness or the need to go to medical appointments?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36c_1. What was it about {your/NAME’s} health that made {you/him/her} leave this job?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36c_1_oth. INTERVIEWER: PLEASE SPECIFY</td>
<td>Item added</td>
<td>Question added SWS for longitudinal sample members.</td>
</tr>
<tr>
<td>B36d. Did {you/NAME} leave {your/his/her} last job because of {your/his/her} job, for example because of the need for accommodations or problems with {your/his/her} co-workers?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36d_1. What was it about {your/NAME’s} job that made {you/him/her} leave it?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36d_1_oth. INTERVIEWER: PLEASE SPECIFY</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
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### Table C.1 (continued)

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<tr>
<th>Item</th>
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<tbody>
<tr>
<td>B36e. Did (you/NAME) leave (your/his/her) last job because of (your/his/her) personal circumstances, for example because (you/he/she) needed childcare, didn’t have reliable transportation, or worried about losing other benefits?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36e_1. What was it about (your/NAME’s) personal circumstances that made (you/him/her) leave (your/his/her) last job?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36e_1_oth. INTERVIEWER: PLEASE SPECIFY</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36f. Are there any other reasons that we haven’t talked about why (you/NAME) left (your/his/her) last job?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>B36f_oth. What other things made (you/NAME) leave this job?</td>
<td>Item added</td>
<td>Question added for longitudinal SWS cases.</td>
</tr>
<tr>
<td>BP4a3_1. What was it about (your/NAME’s) personal circumstances that may prevent (you/NAME) from working?</td>
<td>Item modified</td>
<td>Two response options added: 19= MOVED TO ANOTHER AREA 21= LOSS OR POTENTIAL LOSS OF GOVERNMENT BENEFITS</td>
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<tr>
<td>BP4b3_1. What is it about (your/NAME’s) personal circumstances that may cause (you/NAME) to not work enough to leave benefits?</td>
<td>Item modified</td>
<td>Two response options added: 19= MOVED TO ANOTHER AREA 21= LOSS OR POTENTIAL LOSS OF GOVERNMENT BENEFITS</td>
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<tr>
<td>Section C</td>
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<tr>
<td>CP13b1. What was it about [your/NAME’s] [main/current] job that might have caused [you/NAME] to have to work less or stop working?</td>
<td>Item modified</td>
<td>Five response options added: 20= FOUND ANOTHER JOB 22= WORK SCHEDULE 23= DID NOT LIKE/GET ALONG WITH CO-WORKERS 24= DID NOT LIKE/GET ALONG WITH MANAGER, SUPERVISOR, OR BOSS 25= DID NOT LIKE/GET ALONG WITH OTHER STAFF RESPONSIBLE FOR HIRING OR PROVIDING ACCOMMODATIONS (SUCH AS HUMAN RESOURCES)</td>
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<tr>
<td>CP13c1. What was it about [your/NAME’s] personal circumstances that might have caused [you/NAME] to have to work less or stop working?</td>
<td>Item modified</td>
<td>Two response options added: 19= MOVED TO ANOTHER AREA 21= LOSS OR POTENTIAL LOSS OF GOVERNMENT BENEFITS</td>
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<tr>
<td>C39b. [Do you/Does NAME] work fewer hours or earn less money than [you/he/she] could because [you/he/she]:</td>
<td>Item modified</td>
<td>One response option added: g= [Are/is] in poor health or [have/has] health concerns?</td>
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### Table C.1 (continued)

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<td>C_BP13b1. What was it about [your/NAME's] [main/current] job that</td>
<td>Item modified</td>
<td>Five response options added:</td>
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<td>might have caused [you/NAME] to have to work less or stop working?</td>
<td></td>
<td>20= FOUND ANOTHER JOB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22= WORK SCHEDULE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23= DID NOT LIKE/GET ALONG WITH CO-WORKERS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24= DID NOT LIKE/GET ALONG WITH MANAGER, SUPERVISOR, OR BOSS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25= DID NOT LIKE/GET ALONG WITH OTHER STAFF RESPONSIBLE FOR HIRING OR</td>
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<td></td>
<td>PROVIDING ACCOMMODATIONS (SUCH AS HUMAN RESOURCES)</td>
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<tr>
<td>C_BP13c1. What was it about [your/NAME's] personal circumstances</td>
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<td>Two response options added:</td>
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<td>that might have caused [you/NAME] to have to work less or stop</td>
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<td>19= MOVED TO ANOTHER AREA</td>
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<tr>
<td>working?</td>
<td></td>
<td>21= LOSS OR POTENTIAL LOSS OF GOVERNMENT BENEFITS</td>
</tr>
<tr>
<td>C_B39b. [Do you/Does NAME] work fewer hours or earn less money than</td>
<td>Item modified</td>
<td>One response option added:</td>
</tr>
<tr>
<td>[you/he/she] could because [you/he/she]:</td>
<td></td>
<td>g= [Are/is] in poor health or [have/has] health concerns?</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Section D</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP1b_1. What was it about [your/NAME's] job that made [you/him/her]</td>
<td>Item modified</td>
<td>Three response options added:</td>
</tr>
<tr>
<td>leave it?</td>
<td></td>
<td>20= FOUND ANOTHER JOB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22= WORK SCHEDULE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23= SEASONAL/TEMPORARY JOB</td>
</tr>
<tr>
<td>DP1c_1. What was it about [your/NAME's] personal circumstances that</td>
<td>Item modified</td>
<td>Two response options added:</td>
</tr>
<tr>
<td>made [you/him/her] leave the job?</td>
<td></td>
<td>19= MOVED TO ANOTHER AREA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21= LOSS OR POTENTIAL LOSS OF GOVERNMENT BENEFITS</td>
</tr>
<tr>
<td>D25a. Did you work fewer hours or earn less money than you could</td>
<td>Item modified</td>
<td>One response option added:</td>
</tr>
<tr>
<td>because [you/he/she] you…</td>
<td></td>
<td>g= Had medical problems/complications</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Section E</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E12. (Have you/Has NAME) ever heard of the student earned-income</td>
<td>Item modified</td>
<td>We updated the Student Earned-Income Exclusion rate with 2019 rate.</td>
</tr>
<tr>
<td>exclusion? This is a Social Security incentive where if [you are/a]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>beneficiary is] in school, up to $1,870 of earnings per month are</td>
<td></td>
<td></td>
</tr>
<tr>
<td>not counted when Social Security figures [your/the] benefit.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E15a. Most people receiving Social Security disability benefits will</td>
<td>Item modified</td>
<td>We updated the Trial Work Period rate with 2019 rate.</td>
</tr>
<tr>
<td>lose their cash benefits if they work and earn more than $1,220 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a month for more than nine months. Is this something [you/NAME] knew</td>
<td></td>
<td></td>
</tr>
<tr>
<td>before today?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table C.1 (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Change</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>E15. (Have you/Has NAME) ever heard of a Trial Work Period? This is a Social Security incentive that lets {you/beneficiaries} earn above $880 per month for nine months without losing {your/their} benefits.</td>
<td>Item modified</td>
<td>We updated the Substantial Gainful Activity (SGA) rate with 2019 rate.</td>
</tr>
<tr>
<td>Section SS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS2b_1. What was it about [your/NAME’s] job that makes [you/NAME] think [you/he/she] might go back on benefits?</td>
<td>Item modified</td>
<td>Five response options added:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20= FOUND ANOTHER JOB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22= WORK SCHEDULE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23= DID NOT LIKE/GET ALONG WITH CO-WORKERS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24= DID NOT LIKE/GET ALONG WITH MANAGER, SUPERVISOR, OR BOSS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25= DID NOT LIKE/GET ALONG WITH OTHER STAFF RESPONSIBLE FOR HIRING OR PROVIDING ACCOMMODATIONS (SUCH AS HUMAN RESOURCES)</td>
</tr>
<tr>
<td>SS2c_1. What was it about [your/NAME’s] personal circumstances that makes [you/NAME] think [you/he/she] might go back on benefits?</td>
<td>Item modified</td>
<td>Two response options added:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19= MOVED TO ANOTHER AREA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21= LOSS OR POTENTIAL LOSS OF GOVERNMENT BENEFITS</td>
</tr>
<tr>
<td>Section SB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB1b_1. What was it about [your/NAME’s] job that made [you/NAME] have to go back on benefits?</td>
<td>Item modified</td>
<td>Five response options added:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20= FOUND ANOTHER JOB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22= WORK SCHEDULE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23= DID NOT LIKE/GET ALONG WITH CO-WORKERS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24= DID NOT LIKE/GET ALONG WITH MANAGER, SUPERVISOR, OR BOSS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25= DID NOT LIKE/GET ALONG WITH OTHER STAFF RESPONSIBLE FOR HIRING OR PROVIDING ACCOMMODATIONS (SUCH AS HUMAN RESOURCES)</td>
</tr>
<tr>
<td>SB1c_1. What was it about [your/NAME’s] personal circumstances that made [you/NAME] have to go back on benefits?</td>
<td>Item modified</td>
<td>Two response options added:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19= MOVED TO ANOTHER AREA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21= LOSS OR POTENTIAL LOSS OF GOVERNMENT BENEFITS</td>
</tr>
<tr>
<td>SB4a. Why {don’t you/doesn’t NAME} think {you/he/she} will (go back to work / work and earn enough to stay off benefits in the future)?</td>
<td>Item modified</td>
<td>We altered the format of this question from “choose one” to “choose all that apply.”</td>
</tr>
<tr>
<td>SB4b. Why {are BP4b3_1. What is it about {your/NAME’s} personal circumstances that may cause {you/is NAME} unsure about whether {you/he/she} will (go back to work / work and earn enough to stay off benefits in the future)?</td>
<td>Item modified</td>
<td>We altered the format of this question from “choose one” to “choose all that apply.”</td>
</tr>
</tbody>
</table>
### Table C.1 (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Change</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section G</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G13. Where did (you/NAME) go to get this training? Please think about all of the places (you/NAME) went in 2016.</td>
<td>Item modified</td>
<td>One response option added:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9= On the job training (unspecified)</td>
</tr>
<tr>
<td>G18. Where did (you/NAME) go to receive these medical services? Please think about all of the places (you/NAME) went in 2016. Did (you/NAME) go to:</td>
<td>Item modified</td>
<td>Two response options added:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10= Rehabilitation/counseling center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11= Physical therapy center</td>
</tr>
<tr>
<td>G22. Where did (you/NAME) receive this mental health therapy or counseling? Please think about all of the places (you/NAME) went in 2016. Did (you/NAME) go to:</td>
<td>Item modified</td>
<td>Three response options added:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06= Residential treatment program/facility</td>
</tr>
<tr>
<td></td>
<td></td>
<td>07= Rehab center/counseling center/day program</td>
</tr>
<tr>
<td></td>
<td></td>
<td>08= Church or religious institution</td>
</tr>
<tr>
<td><strong>Section L</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L9. Do (you/NAME) and (your/his/her) {spouse/unmarried partner} live in the same household?</td>
<td>Item modified</td>
<td>We added unmarried partner to this question text.</td>
</tr>
<tr>
<td>L10. (Do you/Does NAME) have a long-term partner who lives in the same household with (you/him/her) in a marriage-like relationship?</td>
<td>Item modified</td>
<td>We corrected the skip logic in the Round 7 survey instrument to ensure that unmarried sample members who are living with their partner (L8=6 and L9=1) are not asked L10, and divorcees (L8=3) are asked L10.</td>
</tr>
<tr>
<td>L12. The next question is about the place where you live. Was this place a…</td>
<td>Item modified</td>
<td>We added “homeless” as an unread answer category to this “other/specify” question.</td>
</tr>
</tbody>
</table>
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Appendix D

Other specify and open-ended items with additional categories created during coding
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<table>
<thead>
<tr>
<th>Question #</th>
<th>Question Text</th>
<th>Current Response Options</th>
<th>Additional Categories Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>B29_6</td>
<td>What benefits were/was you/NAME most worried about losing?</td>
<td>01 = Private disability insurance 02 = Workers’ compensation 03 = Veterans’ benefits 04 = Medicare 05 = Medicaid 06 = SSA disability benefits 07 = Public assistance or welfare 08 = Food stamps 09 = Personal assistance services (pas) 10 = Unemployment benefits 11 = Other state disability benefits 12 = Other government programs 13 = Other</td>
<td>14 = Health insurance unspecified</td>
</tr>
<tr>
<td>B29_10</td>
<td>What benefits were/was you/NAME most worried about losing?</td>
<td>01 = Private Disability Insurance 02 = Workers’ compensation 03 = Veterans’ benefits 04 = Medicare 05 = Medicaid 06 = SSA Disability Benefits 07 = Public Assistance or Welfare 08 = Food Stamps 09 = Personal Assistance Services (PAS) 10 = Unemployment Benefits 11 = Other State Disability Benefits 12 = Other government programs 13 = Other</td>
<td>14 = Health insurance unspecified</td>
</tr>
</tbody>
</table>
### Table D.1 (continued)

<table>
<thead>
<tr>
<th>Question #</th>
<th>Question Text</th>
<th>Current Response Options</th>
<th>Additional Categories Created</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>B25</strong> What are they (the other reasons you are not working that I didn’t mention)?</td>
<td>a = A physical or mental condition prevents [you/him/her] from working</td>
<td>q = Lack skills</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b = [You/NAME] cannot find a job that [you are/(he/she) is] qualified for</td>
<td>r = Cannot find a job/job market is bad</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c = [You do/NAME does] not have reliable transportation to and from work</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>d = [You are/NAME is] caring for someone else.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>f = [You/NAME] cannot find a job [you want/(he/she) wants]</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>g = [You are/NAME is] waiting to finish school or a training program.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>h = Workplaces are not accessible to people with [your/NAME’s] disability.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>i = [You do/NAME does] not want to lose benefits such as disability, worker’s compensation, or Medicaid</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>j = [Your/NAME’s] previous attempts to work have been discouraging</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>l = Others do not think [you/NAME] can work</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>m = Employers will not give [you/NAME] a chance to show that [you/he/she] can work.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n = [You/NAME] does not have the special equipment or medical devices that [you/he/she] would need in order to work.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>o = [You/NAME] cannot get the personal assistance [you need/he needs/she needs] in order to get ready for work each day</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>p = [You/NAME] cannot get help [you need/he needs/she needs] with tasks you would do at work. This includes having someone help you with things like writing, reading, lifting or reaching.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>B29_11b</strong> What benefits [were/was] [you/NAME] most worried about losing?</td>
<td>01 = Private Disability Insurance</td>
<td>14 = Health insurance unspecified</td>
</tr>
<tr>
<td></td>
<td></td>
<td>02 = Workers’ compensation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>03 = Veterans’ benefits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>04 = Medicare</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>05 = Medicaid</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>06 = SSA Disability Benefits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>07 = Public Assistance or Welfare</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>08 = Food Stamps</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>09 = Personal Assistance Services (PAS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 = Unemployment Benefits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 = Other State Disability Benefits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 = Other government programs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13 = Other</td>
<td></td>
</tr>
</tbody>
</table>
### Table D.1 (continued)

<table>
<thead>
<tr>
<th>Question #</th>
<th>Question Text</th>
<th>Current Response Options</th>
<th>Additional Categories Created</th>
</tr>
</thead>
</table>
| C39_2      | What benefits have been reduced or ended as a result of [your/NAME’s] (main/current) job? | 01 = Private Disability Insurance  
02 = Workers’ compensation  
03 = Veterans’ benefits  
04 = Medicare  
05 = Medicaid  
06 = SSA Disability Benefits  
07 = Public Assistance or Welfare  
08 = Food Stamps  
09 = Personal Assistance Services (PAS)  
10 = Unemployment Benefits  
11 = Other State Disability Benefits  
12 = Other government programs  
13 = Other  
14 = Health insurance unspecified  |                                                                                         |                                             |
| C_B39b     | Do you/Does NAME work fewer hours or earn less money than [you/he/she] could because [you/he/she]: | a = [Are/is] taking care of children or others?  
b = [Are/is] enrolled in school or a training program?  
c = Want[s] to keep Medicare or Medicaid coverage?  
d = Want[s] to keep cash benefits [you/he/she] need such as disability or workers’ compensation?  
e = Just [do/does] not want to work more?  
f = Are there any reasons I didn’t mention why [you are/NAME is] working or earning less than [you/he/she] could?  
g = [Are/is] in poor health or [have/has] health concerns?  |                                             |
| C_B39_2    | What benefits have been reduced or ended as a result of [your/NAME’s] (main/current) job? | 01 = Private Disability Insurance  
02 = Workers’ compensation  
03 = Veterans’ benefits  
04 = Medicare  
05 = Medicaid  
06 = SSA Disability Benefits  
07 = Public Assistance or Welfare  
08 = Food Stamps  
09 = Personal Assistance Services (PAS)  
10 = Unemployment Benefits  
11 = Other State Disability Benefits  
12 = Other government programs  
13 = Other  
14 = Health insurance unspecified  |                                                                                         |                                             |
### Table D.1 (continued)

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<tr>
<th>Question #</th>
<th>Question Text</th>
<th>Current Response Options</th>
<th>Additional Categories Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>D25_2</td>
<td>What benefits were reduced or ended as a result of [your/NAME’s] job in 2018?</td>
<td>01 = Private Disability Insurance 02 = Workers’ compensation 03 = Veterans’ benefits 04 = Medicare 05 = Medicaid 06 = SSA Disability Benefits 07 = Public Assistance or Welfare 08 = Food Stamps 09 = Personal Assistance Services (PAS) 10 = Unemployment Benefits 11 = Other State Disability Benefits 12 = Other government programs 13 = Other 14 = Health insurance unspecified</td>
<td></td>
</tr>
<tr>
<td>D26_h</td>
<td>In 2018, do you think [you/NAME] could have worked or earned more if [you/he/she] had:</td>
<td>a = Help caring for [your/his/her] children or others in the household? b = Help with [your/his/her] own personal care such as bathing, dressing, preparing meals, and doing housework? c = Reliable transportation to and from work? d = Better job skills? e = A job with a flexible work schedule? f = Help with finding and getting a better job? g = Any special equipment or medical devices? (SPECIFY: &lt;OPEN&gt;) h = Is there anything else that I didn’t mention that would have helped [you/NAME] to work or earn more during 2018? (SPECIFY: &lt;OPEN&gt;) i = Better health/treatment  j = More supportive/helpful employer and/or coworker</td>
<td></td>
</tr>
<tr>
<td>G18</td>
<td>Where did {you/NAME} go to receive these medical services? Please think about all of the places {you/NAME} went in 2018. Did {you/NAME} go to:</td>
<td>01 = A clinic or doctor’s office 02 = A hospital or (SPECIFY: &lt;OPEN&gt;) 03 = Some other type of place? 10 = A rehabilitation/counseling center 11 = Physical therapy center 12 = Other 13 = Other 04 = Medicare 05 = Medicaid 06 = SSA Disability Benefits 07 = Public Assistance or Welfare 08 = Food Stamps 09 = Personal Assistance Services (PAS) 10 = Unemployment Benefits 11 = Other State Disability Benefits 12 = Other government programs 13 = Other 14 = Health insurance unspecified</td>
<td>05 = A school 06 = A nursing home/group home 07 = A government agency 08 = In home care 09 = A medical equipment store</td>
</tr>
<tr>
<td>Question #</td>
<td>Question Text</td>
<td>Current Response Options</td>
<td>Additional Categories Created</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>G61</td>
<td>Why [were you/was NAME] unable to get these services?</td>
<td>&lt;OPEN&gt;</td>
<td>01 = Not eligible/request refused</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>02 = Lack information on how to get services/didn’t know about services</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>03 = Could not afford/insurance would not cover</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>04 = Did not try to get services</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>05 = Too difficult/too confusing to get services</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>06 = Problems with the service or agency</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>07 = Other</td>
</tr>
<tr>
<td>K14</td>
<td>What other assistance did [you/NAME] receive last month?</td>
<td>&lt;OPEN&gt;</td>
<td>01 = Housing Assistance</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>02 = Energy Assistance</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>03 = Food assistance</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>04 = Other</td>
</tr>
<tr>
<td>L12</td>
<td>The next question is about the place where you live. Was this place a…</td>
<td>01 = Single family home?</td>
<td>13 = Homeless</td>
</tr>
<tr>
<td></td>
<td></td>
<td>02 = Mobile home?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>03 = Regular apartment?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>04 = Supervised apartment?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>05 = Group home?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>06 = Halfway house?</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>07 = Personal care or board and care home?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>08 = Assisted living facility?</td>
<td></td>
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<td></td>
<td>09 = Nursing or convalescent home?</td>
<td></td>
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<td></td>
<td></td>
<td>10 = Center for independent living?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 = Some other type of supervised group residence or facility?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 = Something else?</td>
<td></td>
</tr>
</tbody>
</table>
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Appendix E

SOC major and minor occupation classifications
<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>111</td>
<td>Top Executives</td>
</tr>
<tr>
<td>112</td>
<td>Advertising, Marketing, PR, Sales</td>
</tr>
<tr>
<td>113</td>
<td>Operations Specialist Managers</td>
</tr>
<tr>
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<td>131</td>
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<td>Architects, Surveyors and Cartographers</td>
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<td>Drafters, Engineering and Mapping Technicians</td>
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<td>Supervisors, Food Preparation and Food Serving Workers</td>
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<td>Cooks and Food Preparation Workers</td>
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<td>Other Food Preparation and Serving Related Workers</td>
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<td>Entertainment Attendants and Related Workers</td>
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<td>Sales Representative, Services</td>
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<td>Sales Representative, Wholesale and Manufacturing</td>
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<td>Financial Clerks</td>
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<td>434</td>
<td>Information and Record Clerks</td>
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<td>Material Recording, Scheduling Dispatching, and Distribution Workers</td>
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<td>Fishing and Hunting Workers</td>
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<td>454</td>
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<td>Supervisors, Construction and Extraction Workers</td>
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<td>Construction Trade Workers</td>
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<td>Other Construction and Related Workers</td>
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<td>Extraction Workers</td>
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<td>Supervisors, Installation, Maintenance and Repair Workers</td>
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<td>Electrical and Electronic Equipment Mechanics, Installers and Repairers</td>
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<td>493</td>
<td>Vehicle and Mobile Equipment Mechanics, Installers and Repairers</td>
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<td>Other Installation, Maintenance and Repair Occupations</td>
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<td>Assemblers and Fabricators</td>
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<td>Food Processing Workers</td>
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<td>Metal Workers and Plastic Workers</td>
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<td>Printing Workers</td>
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<td>516</td>
<td>Textile, Apparel, and Furnishing Workers</td>
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<td>Woodworkers</td>
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<td>Plant and System Operators</td>
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<td>Other Production Occupations</td>
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<td>Supervisors, Transportation and Material Moving Workers</td>
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<td>532</td>
<td>Air Transportation Workers</td>
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<td>Motor Vehicle Operators</td>
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<td>534</td>
<td>Rail Transportation Workers</td>
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<td>Water Transportation Workers</td>
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<td>Other Transportation Workers</td>
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<td>Material Moving Workers</td>
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<td>551</td>
<td>Military Officer and Tactical Operations Leaders/Managers</td>
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<td>First-Line Enlisted Military Supervisors/Managers</td>
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<tr>
<td>553</td>
<td>Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members</td>
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Appendix F

NAICS industry codes
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<td>Crop Production</td>
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<td>Animal Production and Aquaculture</td>
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<td>Forestry and Logging</td>
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<td>Fishing, Hunting and Trapping</td>
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<td>Support Activities for Agriculture and Forestry</td>
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<td>21</td>
<td>Mining, Quarrying, and Oil and Gas Extraction</td>
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<td>Oil and Gas Extraction</td>
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<td>Mining (except Oil and Gas)</td>
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<td>Support Activities for Mining</td>
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<td>Utilities</td>
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<td>Utilities</td>
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<td>Construction</td>
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<td>Construction of Buildings</td>
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<td>Heavy and Civil Engineering Construction</td>
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<td>Manufacturing</td>
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<td>Leather and Allied Product Manufacturing</td>
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<td>Wood Product Manufacturing</td>
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<td>Printing and Related Support Activities</td>
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<td>Petroleum and Coal Products Manufacturing</td>
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<td>Plastics and Rubber Products Manufacturing</td>
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<td>Computer and Electronic Product Manufacturing</td>
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<td>Electrical Equipment, Appliance and Component Manufacturing</td>
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<td>Merchant Wholesalers, Durable Goods</td>
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<td>Wholesale Electronic Markets and Agents and Brokers</td>
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<td>Motor Vehicle and Parts Dealers</td>
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<td>Electronics and Appliance Stores</td>
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<td>Building Material and Garden Equipment and Supplies Dealers</td>
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<td>Health and Personal Care Stores</td>
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<td>Clothing and Clothing Accessories Stores</td>
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<td>Sporting Goods, Hobby, Musical Instrument, and Book Stores</td>
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<td>General Merchandise Stores</td>
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<td>Transportation and Warehousing</td>
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<td>Air Transportation</td>
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<td>Rail Transportation</td>
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<td>Transit and Ground Passenger Transportation</td>
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<td>Scenic and Sightseeing Transportation</td>
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<td>Information</td>
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<td>Motion Picture and Sound Recording Industries</td>
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<td>Data Processing, Hosting, and Related Services</td>
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### Table F.1 (continued)

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<td>Nursing and Residential Care Facilities</td>
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<td>Museums, Historical Sites, and Similar Institutions</td>
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<td>Food Services and Drinking Places</td>
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<td>Administration of Environmental Quality Programs</td>
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<td>925</td>
<td>Administration of Housing Programs, Urban Planning, and Community Development</td>
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<td>Administration of Economic Programs</td>
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<tr>
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Appendix G

Description of constructed variables
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### Table G.1. Description of Constructed Variables

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<tr>
<th>Variable Name</th>
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<tr>
<td><strong>Sampling Variables and Administrative Variables Used in Survey Administration</strong></td>
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<tr>
<td>OrgSampInfo_DOB</td>
<td>Sample member date of birth from SSA administrative records.</td>
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<tr>
<td>OrgSampInfo_SDate</td>
<td>Date sample frame pulled.</td>
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<tr>
<td>OrgSampInfo_SSIAge</td>
<td>Age began receiving SSI benefits. From SSA administrative records.</td>
</tr>
<tr>
<td>OrgSampInfo_PSU</td>
<td>Sampling PSU. For beneficiaries, based on zipcode as of June of the year they were sampled.</td>
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<tr>
<td>OrgSampInfo_Release</td>
<td>Sample release number for the beneficiary sample. Extract release number for the SWS sample.</td>
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<tr>
<td>OrgSampInfo_Bstatus</td>
<td>Indicates whether sample member receives SSI, SSDI, or both SSI and SSDI. From SSA administrative records.</td>
</tr>
<tr>
<td>OrgSampInfo_age</td>
<td>Age of sample member at time of sample selection. Based on date of birth from SSA administrative records.</td>
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<td>OrgSampInfo_PrimDiagT16</td>
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<tr>
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<td>SSA impairment code. From SSA administrative records.</td>
</tr>
<tr>
<td>OrgSampInfo_SecDiagT16</td>
<td>SSA impairment code. From SSA administrative records.</td>
</tr>
<tr>
<td>OrgSampInfo_SecDiagT2</td>
<td>SSA impairment code. From SSA administrative records.</td>
</tr>
<tr>
<td>OrgSampInfo_hispanic</td>
<td>Indicates whether sample member is Hispanic or non-Hispanic. Based on ethnicity from SSA administrative records.</td>
</tr>
<tr>
<td>OrgSampInfo_race</td>
<td>Race of sample member. From SSA administrative records.</td>
</tr>
<tr>
<td>OrgSampInfo_Sex</td>
<td>Sex of Sample member. From SSA administrative records.</td>
</tr>
<tr>
<td>C_Cohort</td>
<td>Age cohort sampling strata for Beneficiary sample. Based on date of birth from SSA administrative records.</td>
</tr>
<tr>
<td>A_Strata</td>
<td>Analytical strata for variance estimation using SUDAAN. For A_Strata the first digit=R7_Orgsampinfo_phase.</td>
</tr>
<tr>
<td>A_PSU</td>
<td>Analytical PSU for variance estimation using SUDAAN. For clustered samples (beneficiaries and participants) A_PSU = PSU identifier. For unclustered Participant sample A_PSU = linkid.</td>
</tr>
<tr>
<td>OrgSampInfo_SampGrp</td>
<td>Indicates whether sample member is part of the beneficiary sample (=1) or the SWS sample (=2).</td>
</tr>
<tr>
<td><strong>Survey Administration Variables</strong></td>
<td></td>
</tr>
<tr>
<td>SID</td>
<td>Study ID</td>
</tr>
<tr>
<td>PIN</td>
<td>PIN</td>
</tr>
<tr>
<td>Final</td>
<td>Final disposition code.</td>
</tr>
<tr>
<td>LastDate</td>
<td>Interview date.</td>
</tr>
<tr>
<td>C_IntDay</td>
<td>Interview day.</td>
</tr>
<tr>
<td>C_IntMnth</td>
<td>Interview month.</td>
</tr>
<tr>
<td>C_IntYear</td>
<td>Interview year.</td>
</tr>
<tr>
<td>C_Rtype</td>
<td>Indicates whether interview conducted by sample person or proxy. Based on M11.</td>
</tr>
<tr>
<td>C_Resptype</td>
<td>Indicates whether the sample person or proxy required assistance from someone else to complete the interview. Based on M12.</td>
</tr>
</tbody>
</table>
### Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proxy_flag</td>
<td>Indicates how became proxy interview.</td>
</tr>
<tr>
<td>C_IntMode</td>
<td>Indicates whether interview conducted via CATI or CAPI.</td>
</tr>
<tr>
<td>InterviewLanguage</td>
<td>Indicates whether interview conducted in Spanish or non Spanish.</td>
</tr>
<tr>
<td>C_IntAge</td>
<td>Sample member age at interview. Based on date of interview minus self-reported date of birth at A68 or A69, which may differ from the date of birth in SSA records.</td>
</tr>
<tr>
<td>ORGSAMPINFO_EXTRACT</td>
<td>SWS Sample extract</td>
</tr>
<tr>
<td>ORGSAMPINFO_SWS_SAMPLE</td>
<td>Indicates whether a case is part of the cross-Sectional SWS sample</td>
</tr>
<tr>
<td>ORGSAMPINFO_SWSFRAME</td>
<td>Indicates whether a case is part of the SWS Frame</td>
</tr>
<tr>
<td>ORGSAMPINFO_LONGSAMP</td>
<td>Indicates whether a case is part of the R7 longitudinal SWS sample or not</td>
</tr>
<tr>
<td>ORGSAMPINFO_STATUS6LEVEL</td>
<td>Disposition code</td>
</tr>
<tr>
<td>Weights</td>
<td></td>
</tr>
<tr>
<td>Wtr7_Ben</td>
<td>Weights created for beneficiary sample analyses.</td>
</tr>
<tr>
<td>Wtr7_com</td>
<td>Weights created for the beneficiary and SWS sample analyses.</td>
</tr>
<tr>
<td>Wtr7_CSSWS</td>
<td>Weights created for the SWS cross-sectional sample analyses.</td>
</tr>
<tr>
<td>Wtr7_LNGSWS</td>
<td>Weights created for the SWS longitudinal sample analyses.</td>
</tr>
<tr>
<td>Section B Variables: Disability and Current Work Status</td>
<td></td>
</tr>
<tr>
<td>C_MainConDiagGrpNew_1-6</td>
<td>ICD-9 diagnosis categories based on verbatim at B2 (physical or mental condition that is main reason limited).</td>
</tr>
<tr>
<td>C_MainConColDiagGrp_1-6</td>
<td>Collapsed ICD-9 diagnosis categories based on verbatim at B2 (physical or mental condition that is main reason limited).</td>
</tr>
<tr>
<td>C_MainConBodyGroup_1-6</td>
<td>ICD-9 body group categories based on verbatim at B2 (main reason limited).</td>
</tr>
<tr>
<td>C_SecconDiagGrpNew_1-8</td>
<td>ICD-9 diagnosis categories based on verbatim at B4 (other physical and mental conditions that limit work or daily activities).</td>
</tr>
<tr>
<td>C_SecconColDiagGrp_1-8</td>
<td>Collapsed ICD-9 diagnosis categories based on verbatim at B4 (other physical and mental conditions that limit work or daily activities).</td>
</tr>
<tr>
<td>C_SecconBodyGroup_1-8</td>
<td>ICD-9 body group categories based on verbatim at B4 (other physical or mental conditions that limit work or daily activities).</td>
</tr>
<tr>
<td>C_ReasBecEligDiagGrpNew</td>
<td>ICD-9 diagnosis categories for reasons eligible for disability benefits. Taken from B6, B12, or B15.</td>
</tr>
<tr>
<td>C_ReasBecEligColDiagGrp</td>
<td>Collapsed ICD-9 diagnosis categories for reason eligible for disability benefits. Taken from B6, B12, or B15.</td>
</tr>
<tr>
<td>C_ReasBecEligBodyGroup</td>
<td>ICD-9 body group categories for reason eligible for disability benefits. Taken from B6, B12, or B15.</td>
</tr>
<tr>
<td>C_MainReasEligDiagGrpNew_1-4</td>
<td>ICD-9 diagnosis categories for main reason eligible for disability benefits. Taken from B6.</td>
</tr>
<tr>
<td>C_MainReasEligColDiagGrp_1-4</td>
<td>Collapsed ICD-9 diagnosis categories for main reason eligible for disability benefits. Taken from B6.</td>
</tr>
<tr>
<td>C_MainReasEligBodyGroup_1-4</td>
<td>ICD-9 body group categories for main reason eligible for disability benefits. Taken from B6.</td>
</tr>
<tr>
<td>C_DisAge</td>
<td>Sample member age of disability at onset. Based on B18_age or if missing, B18_yr minus self-reported date of birth at A68 or A69, which may differ from the date of birth in SSA records.</td>
</tr>
<tr>
<td>C_AdultChild_Onset</td>
<td>Indicates whether onset of disability was prior to age 18 or at age 18 and older. Based on B19 and C_Disage.</td>
</tr>
</tbody>
</table>
### Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_WrkdWhenLim</td>
<td>Indicates whether sample person was working at time became disabled. Based on B22 and C_AdultChild_Onset.</td>
</tr>
<tr>
<td>C_EvrWorked</td>
<td>Indicates whether sample person ever worked at time of interview. Based on B36, B22, B24, B24b, B30, and B30_b.</td>
</tr>
<tr>
<td>C_HrPayNeeded</td>
<td>Hourly pay respondent reports needing to make to accept Job. Based on B29_3a and B29_3ahop, or B29_3b and B29_3bhop, or B29_8a and B29_8ahop, or B29_8b and B29_8bhop, or B29_12a and B29_12ahop.</td>
</tr>
<tr>
<td>C_HrPayneed_looking</td>
<td>Hourly pay needed to enter workforce for beneficiaries looking for work.</td>
</tr>
<tr>
<td>C_HrPayNeed_notlooking</td>
<td>Hourly pay needed to enter workforce for beneficiaries not looking for work.</td>
</tr>
</tbody>
</table>

**Section C Variables: Current Employment**

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_MainCurJobSOC</td>
<td>SOC code assigned to verbatim from C2 (current occupation for main job).</td>
</tr>
<tr>
<td>C_MainCurJobNAICS</td>
<td>NAICS code assigned to verbatim at C3 (current industry for main job).</td>
</tr>
<tr>
<td>C_CurJob2SOC</td>
<td>SOC code assigned to verbatim from C2 (current occupation for second job).</td>
</tr>
<tr>
<td>C_CurJob2NAICS</td>
<td>NAICS code assigned to verbatim at C3 (current industry for second job).</td>
</tr>
<tr>
<td>C_CurJob3SOC</td>
<td>SOC code assigned to verbatim from C2 (current occupation for third job).</td>
</tr>
<tr>
<td>C_CurJob3NAICS</td>
<td>NAICS code assigned to verbatim at C3 (current industry for third job).</td>
</tr>
<tr>
<td>C_CurJob4SOC</td>
<td>SOC code assigned to verbatim from C2 (current occupation for fourth job).</td>
</tr>
<tr>
<td>C_CurJob4NAICS</td>
<td>NAICS code assigned to verbatim at C3 (current industry for fourth job).</td>
</tr>
<tr>
<td>C_CurJob5SOC</td>
<td>SOC code assigned to verbatim from C2 (current occupation for fifth job).</td>
</tr>
<tr>
<td>C_CurJob5NAICS</td>
<td>NAICS code assigned to verbatim at C3 (current industry for fifth job).</td>
</tr>
<tr>
<td>C_CurJob6SOC</td>
<td>SOC code assigned to verbatim from C2 (current occupation for sixth job).</td>
</tr>
<tr>
<td>C_CurJob6NAICS</td>
<td>NAICS code assigned to verbatim at C3 (current industry for sixth job).</td>
</tr>
<tr>
<td>C_MainCurJobHrPay</td>
<td>Hourly rate at current main job (pre-tax). Based on C10, C11, C12amt, and C12hop.</td>
</tr>
<tr>
<td>C_MainCurJobMnthPay</td>
<td>Monthly pay rate at current main job (pre-tax). Based on C10, C11, C12amt, and C12hop.</td>
</tr>
<tr>
<td>C_MainCurJobMnthPayTH</td>
<td>Monthly take home pay from current main job. Based on C10, C11, C13amt, and C13hop.</td>
</tr>
<tr>
<td>C_MainCurJobRepSSA</td>
<td>Number of months before current job reported to SSA. Based on C5b, C5month, and C5bweek.</td>
</tr>
<tr>
<td>C_MnthsMainCurJob</td>
<td>Months employed at current main job. Based on year of interview, C4mth, and C4yr. Computed for each job listed.</td>
</tr>
<tr>
<td>C_CurJob2HrPay</td>
<td>Hourly pay at current second job</td>
</tr>
<tr>
<td>C_CurJob2MnthPay</td>
<td>Monthly pre-tax pay at current second job.</td>
</tr>
<tr>
<td>C_CurJob2MnthPayTH</td>
<td>Monthly take home pay at current second job.</td>
</tr>
<tr>
<td>C_CurJob2RepSSA</td>
<td>Number of months before current second job reported to SSA. Based on C5b, C5month, and C5bweek.</td>
</tr>
<tr>
<td>C_MnthsCurJob2</td>
<td>Months employed at current second job. Based on year of interview, C4mth, and C4yr.</td>
</tr>
<tr>
<td>C_CurJob3HrPay</td>
<td>Hourly pay at current third job</td>
</tr>
<tr>
<td>C_CurJob3MnthPay</td>
<td>Monthly pre-tax pay at current third job.</td>
</tr>
<tr>
<td>C_CurJob3MnthPayTH</td>
<td>Monthly take home pay at current third job.</td>
</tr>
<tr>
<td>C_CurJob3RepSSA</td>
<td>Number of months before current third job reported to SSA. Based on C5b, C5month, and C5bweek.</td>
</tr>
</tbody>
</table>
## Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_MnthsCurJob3</td>
<td>Months employed at current third job. Based on year of interview, C4mth, and C4yr.</td>
</tr>
<tr>
<td>C_CurJob4HrPay</td>
<td>Hourly pay at current fourth job</td>
</tr>
<tr>
<td>C_CurJob4MnthPay</td>
<td>Monthly pre-tax pay at current fourth job</td>
</tr>
<tr>
<td>C_CurJob4MnthPayTH</td>
<td>Monthly take home pay at current fourth job</td>
</tr>
<tr>
<td>C_CurJob4RepSSA</td>
<td>Number of months before current fourth job reported to SSA. Based on C5b, C5month, and C5bweek.</td>
</tr>
<tr>
<td>C_MnthsCurJob4</td>
<td>Months employed at current fourth job. Based on year of interview, C4mth, and C4yr.</td>
</tr>
<tr>
<td>C_CurJob5HrPay</td>
<td>Hourly pay at current fifth job</td>
</tr>
<tr>
<td>C_CurJob5MnthPay</td>
<td>Monthly pre-tax pay at current fifth job</td>
</tr>
<tr>
<td>C_CurJob5MnthPayTH</td>
<td>Monthly take home pay at current fifth job</td>
</tr>
<tr>
<td>C_CurJob5RepSSA</td>
<td>Number of months before current fifth job reported to SSA. Based on C5b, C5month, and C5bweek.</td>
</tr>
<tr>
<td>C_MnthsCurJob5</td>
<td>Months employed at current fifth job. Based on year of interview, C4mth, and C4yr.</td>
</tr>
<tr>
<td>C_CurJob6HrPay</td>
<td>Hourly pay at current sixth job</td>
</tr>
<tr>
<td>C_CurJob6MnthPay</td>
<td>Monthly pre-tax pay at current sixth job</td>
</tr>
<tr>
<td>C_CurJob6MnthPayTH</td>
<td>Monthly take home pay at current sixth job</td>
</tr>
<tr>
<td>C_CurJob6RepSSA</td>
<td>Number of months before current sixth job reported to SSA. Based on C5b, C5month, and C5bweek.</td>
</tr>
<tr>
<td>C_MnthsCurJob6</td>
<td>Months employed at current sixth job. Based on year of interview, C4mth, and C4yr.</td>
</tr>
<tr>
<td>C_TotCurMnthPay</td>
<td>Total current monthly pay from all jobs combined. Summary of currently monthly pay variables.</td>
</tr>
<tr>
<td>c_totcurmnthpay_high</td>
<td>Flags cases where total monthly pay is higher than $10,000.</td>
</tr>
<tr>
<td>c_totcurmnthpay_low</td>
<td>Flags cases where total monthly pay is less than $20 a month.</td>
</tr>
<tr>
<td>C_TotCurWkHrs</td>
<td>Total number of hours work per week on all current jobs combined. Based on summary of C8 for all jobs listed.</td>
</tr>
<tr>
<td>C_TotCurHrMnth</td>
<td>Total number of hours worked per month on all jobs combined. Based on summary of C8 for all jobs listed.</td>
</tr>
<tr>
<td>c_CurSGA</td>
<td>Indicator if current pay is above non-blind substantial gainful activity</td>
</tr>
</tbody>
</table>

### Section C_B Variables: Employment Within the Last Six Months

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_Main6MoJobSOC</td>
<td>SOC code assigned to verbatim from C_B2 (occupation for main job).</td>
</tr>
<tr>
<td>C_Main6MoJobNAICS</td>
<td>NAICS code assigned to verbatim at C_B3 (industry for main job).</td>
</tr>
<tr>
<td>C_6MoJob2SOC</td>
<td>SOC code assigned to verbatim from C_B2 (occupation for second job).</td>
</tr>
<tr>
<td>C_6MoJob2NAICS</td>
<td>NAICS code assigned to verbatim at C_B3 (industry for second job).</td>
</tr>
<tr>
<td>C_6MoJob3SOC</td>
<td>SOC code assigned to verbatim from C_B2 (occupation for third job).</td>
</tr>
<tr>
<td>C_6MoJob3NAICS</td>
<td>NAICS code assigned to verbatim at C_B3 (industry for third job).</td>
</tr>
<tr>
<td>C_6MoJob4SOC</td>
<td>SOC code assigned to verbatim from C_B2 (occupation for fourth job).</td>
</tr>
<tr>
<td>C_6MoJob4NAICS</td>
<td>NAICS code assigned to verbatim at C_B3 (industry for fourth job).</td>
</tr>
<tr>
<td>C_6MoJob5SOC</td>
<td>SOC code assigned to verbatim from C_B2 (occupation for fifth job).</td>
</tr>
<tr>
<td>C_6MoJob5NAICS</td>
<td>NAICS code assigned to verbatim at C_B3 (industry for fifth job).</td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>C_6MoJob6SOC</td>
<td>SOC code assigned to verbatim from C_B2 (occupation for sixth job).</td>
</tr>
<tr>
<td>C_6MoJob6NAICS</td>
<td>NAICS code assigned to verbatim at C_B3 (industry for sixth job).</td>
</tr>
<tr>
<td>C_Main6MoJobHrPay</td>
<td>Hourly rate at main job (pre-tax). Based on C_B8, C_B9, C_B10, C_B11, C_B12amt, and C_B12hop.</td>
</tr>
<tr>
<td>C_Main6MoJobMnthPay</td>
<td>Monthly pay rate at main job (pre-tax). Based on C_B8, C_B10, C_B11, C_B12amt, and C_B12hop.</td>
</tr>
<tr>
<td>C_Main6MoJobMnthPayTH</td>
<td>Monthly take home pay from main job. Based on C_B8, C_B10, C_B11, C_B13amt, and C_B13hop.</td>
</tr>
<tr>
<td>C_Main6MoJobRepSSA</td>
<td>Number of months before job reported to SSA. Based on C_B5b, C_B5month, and C_B5bweek.</td>
</tr>
<tr>
<td>C_MnthsMain6MoJob</td>
<td>Months employed at main job within the last six months. Based on C_B4amth, C_B4ayr, C_B4bmon, and C_B4bbyr. Computed for each job listed.</td>
</tr>
<tr>
<td>C_6MoJob2HrPay</td>
<td>Hourly pay at second job.</td>
</tr>
<tr>
<td>C_6MoJob2MnthPay</td>
<td>Monthly pre-tax pay at second job.</td>
</tr>
<tr>
<td>C_6MoJob2MnthPayTH</td>
<td>Monthly take home pay at second job.</td>
</tr>
<tr>
<td>C_6MoJobRep2SSA</td>
<td>Number of months before second job reported to SSA.</td>
</tr>
<tr>
<td>C_Mnths6MoJob2</td>
<td>Months employed at second job within the last six months.</td>
</tr>
<tr>
<td>C_6MoJob3HrPay</td>
<td>Hourly pay at third job.</td>
</tr>
<tr>
<td>C_6MoJob3MnthPay</td>
<td>Monthly pre-tax pay at third job.</td>
</tr>
<tr>
<td>C_6MoJob3MnthPayTH</td>
<td>Monthly take home pay at third job.</td>
</tr>
<tr>
<td>C_6MoJobRep3SSA</td>
<td>Number of months before third job reported to SSA.</td>
</tr>
<tr>
<td>C_Mnths6MoJob3</td>
<td>Months employed at third job within the last six months.</td>
</tr>
<tr>
<td>C_6MoJob4HrPay</td>
<td>Hourly pay at fourth job.</td>
</tr>
<tr>
<td>C_6MoJob4MnthPay</td>
<td>Monthly pre-tax pay at fourth job.</td>
</tr>
<tr>
<td>C_6MoJob4MnthPayTH</td>
<td>Monthly take home pay at fourth job.</td>
</tr>
<tr>
<td>C_6MoJobRep4SSA</td>
<td>Number of months before fourth job reported to SSA.</td>
</tr>
<tr>
<td>C_Mnths6MoJob4</td>
<td>Months employed at fourth job within the last six months.</td>
</tr>
<tr>
<td>C_6MoJob5HrPay</td>
<td>Hourly pay at fifth job.</td>
</tr>
<tr>
<td>C_6MoJob5MnthPay</td>
<td>Monthly pre-tax pay at fifth job.</td>
</tr>
<tr>
<td>C_6MoJob5MnthPayTH</td>
<td>Monthly take home pay at fifth job.</td>
</tr>
<tr>
<td>C_6MoJobRep5SSA</td>
<td>Number of months before fifth job reported to SSA.</td>
</tr>
<tr>
<td>C_Mnths6MoJob5</td>
<td>Months employed at fifth job within the last six months.</td>
</tr>
<tr>
<td>C_6MoJob6HrPay</td>
<td>Hourly pay at sixth job.</td>
</tr>
<tr>
<td>C_6MoJob6MnthPay</td>
<td>Monthly pre-tax pay at sixth job.</td>
</tr>
<tr>
<td>C_6MoJob6MnthPayTH</td>
<td>Monthly take home pay at sixth job.</td>
</tr>
<tr>
<td>C_6MoJobRep6SSA</td>
<td>Number of months before sixth job reported to SSA.</td>
</tr>
<tr>
<td>C_Mnths6MoJob6</td>
<td>Months employed at sixth job within the last six months.</td>
</tr>
<tr>
<td>C_Tot6MoMnthPay</td>
<td>Total monthly pay from all six month jobs combined. Summary of monthly pay variables.</td>
</tr>
<tr>
<td>C_MnthsEvrMain6MoJob</td>
<td>Total months ever employed at main job. Based on C_B4amth, C_B4ayr, C_B4bmon, and C_B4bbyr. Computed for each job listed.</td>
</tr>
<tr>
<td>C_MnthsEvr6MoJob2</td>
<td>Total months ever employed at second job.</td>
</tr>
</tbody>
</table>
### Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_MnthsEvr6MoJob3</td>
<td>Total months ever employed at third job.</td>
</tr>
<tr>
<td>C_MnthsEvr6MoJob4</td>
<td>Total months ever employed at fourth job.</td>
</tr>
<tr>
<td>C_MnthsEvr6MoJob5</td>
<td>Total months ever employed at fifth job.</td>
</tr>
<tr>
<td>C_MnthsEvr6MoJob6</td>
<td>Total months ever employed at sixth job.</td>
</tr>
</tbody>
</table>

**Section D Variables: Jobs/Other Jobs During 2018**

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_Main_Job_grid_num</td>
<td>Indicates which job is listed as 2018 main job.</td>
</tr>
<tr>
<td>D18_m</td>
<td>Indicates whether the main job reported in section D was paid by the hour.</td>
</tr>
<tr>
<td>C_job_from_SecC_1</td>
<td>Indicates which current job from section C has been copied over to job 1 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_2</td>
<td>Indicates which current job from section C has been copied over to job 2 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_3</td>
<td>Indicates which current job from section C has been copied over to job 3 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_4</td>
<td>Indicates which current job from section C has been copied over to job 4 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_5</td>
<td>Indicates which current job from section C has been copied over to job 5 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_6</td>
<td>Indicates which current job from section C has been copied over to job 6 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_B_1</td>
<td>Indicates which current job from section C_B has been copied over to job 1 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_B_2</td>
<td>Indicates which current job from section C_B has been copied over to job 2 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_B_3</td>
<td>Indicates which current job from section C_B has been copied over to job 3 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_B_4</td>
<td>Indicates which current job from section C_B has been copied over to job 4 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_B_5</td>
<td>Indicates which current job from section C_B has been copied over to job 5 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_job_from_SecC_B_6</td>
<td>Indicates which current job from section C_B has been copied over to job 6 in list of jobs held during 2018.</td>
</tr>
<tr>
<td>C_Totjobcopied</td>
<td>Total Number of 2018 Jobs Copied from C or C_B to D</td>
</tr>
<tr>
<td>C_MainJob2018SOC</td>
<td>SOC code assigned to verbatim at D4 (occupation at main job in 2018).</td>
</tr>
<tr>
<td>C_MainJob2018NAICS</td>
<td>NAICS code assigned to verbatim at D5 (industry for main job in 2018).</td>
</tr>
<tr>
<td>C_Job12018SOC</td>
<td>SOC code assigned to verbatim at D4 (occupation at first job in 2018).</td>
</tr>
<tr>
<td>C_Job12018NAICS</td>
<td>NAICS code assigned to verbatim at D5 (industry for first job in 2018).</td>
</tr>
<tr>
<td>C_Job22018SOC</td>
<td>SOC code assigned to verbatim at D4 (occupation at second job in 2018).</td>
</tr>
<tr>
<td>C_Job22018NAICS</td>
<td>NAICS code assigned to verbatim at D5 (industry for second job in 2018).</td>
</tr>
<tr>
<td>C_Job32018SOC</td>
<td>SOC code assigned to verbatim at D4 (occupation at third job in 2018).</td>
</tr>
<tr>
<td>C_Job32018NAICS</td>
<td>NAICS code assigned to verbatim at D5 (industry for third job in 2018).</td>
</tr>
<tr>
<td>C_Job42018SOC</td>
<td>SOC code assigned to verbatim at D4 (occupation at fourth job in 2018).</td>
</tr>
<tr>
<td>C_Job42018NAICS</td>
<td>NAICS code assigned to verbatim at D5 (industry for fourth job in 2018).</td>
</tr>
<tr>
<td>C_Job52018SOC</td>
<td>SOC code assigned to verbatim at D4 (occupation at fifth job in 2018).</td>
</tr>
<tr>
<td>C_Job52018NAICS</td>
<td>NAICS code assigned to verbatim at D5 (industry for fifth job in 2018).</td>
</tr>
</tbody>
</table>
### Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_Job62018SOC</td>
<td>SOC code assigned to verbatim at D4 (occupation at sixth job in 2018).</td>
</tr>
<tr>
<td>C_Job62018NAICS</td>
<td>NAICS code assigned to verbatim at D5 (industry for sixth job in 2018).</td>
</tr>
<tr>
<td>C_MainJobHrPay2018</td>
<td>Hourly pay for main job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MainJobMnthPay2018</td>
<td>Monthly pay for main job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MainJobMnthPayTH2018</td>
<td>Monthly take home pay for main job in 2018. Based on D16, D18, D21amt, and D21hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthsMain2018Job</td>
<td>Months employed at main job in 2018. Based on D6mth and D8mnth. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job1HrPay2018</td>
<td>Hourly pay for first job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job1MnthPay2018</td>
<td>Monthly pay for first job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job1MnthPayTH2018</td>
<td>Monthly take home pay for first job in 2018. Based on D16, D18, D21amt, and D21hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthsJob12018</td>
<td>Months employed at first job in 2018. Based on D6mth and D8mnth. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job2HrPay2018</td>
<td>Hourly pay for second job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job2MnthPay2018</td>
<td>Monthly pay for second job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job2MnthPayTH2018</td>
<td>Monthly take home pay for second job in 2018. Based on D16, D18, D21amt, and D21hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthsJob22018</td>
<td>Months employed at second job in 2018. Based on D6mth and D8mnth. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>C_Job3HrPay2018</td>
<td>Hourly pay for third job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job3MnthPay2018</td>
<td>Monthly pay for third job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job3MnthPayTH2018</td>
<td>Monthly take home pay for third job in 2018. Based on D16, D18, D21amt, and D21hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthsJob32018</td>
<td>Months employed at third job in 2018. Based on D6mth ad D8mnth. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job4HrPay2018</td>
<td>Hourly pay for fourth job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job4MnthPay2018</td>
<td>Monthly pay for fourth job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job4MnthPayTH2018</td>
<td>Monthly take home pay for fourth job in 2018. Based on D16, D18, D21amt, and D21hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthsJob42018</td>
<td>Months employed at fourth job in 2018. Based on D6mth ad D8mnth. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job5HrPay2018</td>
<td>Hourly pay for fifth job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job5MnthPay2018</td>
<td>Monthly pay for fifth job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Job5MnthPayTH2018</td>
<td>Monthly take home pay for fifth job in 2018. Based on D16, D18, D21amt, and D21hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthsJob52018</td>
<td>Months employed at fifth job in 2018. Based on D6mth ad D8mnth. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>C_HrPay2018</td>
<td>Hourly pay for sixth job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthPay2018</td>
<td>Monthly pay for sixth job in 2018 (pre-tax). Based on D16, D18, D20amt, and D20hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MnthPayTH2018</td>
<td>Monthly take home pay for sixth job in 2018. Based on D16, D18, D21amt, and D21hop. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_MthsJob62018</td>
<td>Months employed at sixth job in 2018. Based on D6mth and D8mth. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_Tot2018Pay</td>
<td>Total monthly pay for all jobs combined in 2018. Summary of monthly pay variables for each 2018 job listed. Includes current jobs mentioned in Section C that are not repeated in Section D. Includes jobs within the last six months in Section C_B that are not repeated in Section D.</td>
</tr>
<tr>
<td>C_TotHrs2018</td>
<td>Total hours worked in 2018. Summary of hours*weeks worked for all jobs in 2018.</td>
</tr>
<tr>
<td>C_TotMnths2018</td>
<td>Total months worked in 2018.</td>
</tr>
<tr>
<td>C_UsWkHr2018</td>
<td>Usual weekly hours worked in 2018. Based on total hours worked in 2018 and number of weeks worked in 2018 for all jobs.</td>
</tr>
<tr>
<td>C_UseSVR2018_rev</td>
<td>Indicates that sample person received employment services or job training from an state vocational rehabilitation (SVR) agency in 2018.</td>
</tr>
<tr>
<td>C_UseWEL2018_rev</td>
<td>Indicates that sample person received employment services or job training from a welfare agency in 2018.</td>
</tr>
<tr>
<td>C_UseSMenH2018_rev</td>
<td>Indicates that sample person received employment services or job training from a state mental health agency in 2018.</td>
</tr>
<tr>
<td>C_UseOthSt2018_rev</td>
<td>Indicates that sample person received employment services or job training from another state agency in 2018.</td>
</tr>
<tr>
<td>C_UsePriv2018_rev</td>
<td>Indicates that sample person received employment services or job training from a private business in 2018.</td>
</tr>
<tr>
<td>C_UseOthNonSt2018_rev</td>
<td>Indicates that sample member received employment or job training services from another non state provider in 2018.</td>
</tr>
<tr>
<td>C_UseSchool2018_rev</td>
<td>Indicates that sample member received employment services or job training at a school in 2018.</td>
</tr>
<tr>
<td>C_UseUnemp2018_rev</td>
<td>Indicates that sample member received employment services or job training from an unemployment agency in 2018.</td>
</tr>
<tr>
<td>C_UseClinic2018_rev</td>
<td>Indicates that sample member received medical or mental health services at a clinic, hospital, or doctor's office in 2018.</td>
</tr>
<tr>
<td>C_UseRehab2018_rev</td>
<td>Indicates that sample member received medical or mental health services at a rehabilitation center in 2018.</td>
</tr>
<tr>
<td>C_UseOthMed2018_rev</td>
<td>Indicates that sample member received medical or mental health services from another type of place in 2018.</td>
</tr>
</tbody>
</table>
### Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_EmpUnkwn2018_rev</td>
<td>Indicates that provider type was unknown for employment and job training services received in 2018.</td>
</tr>
<tr>
<td>C_MedUnkwn2018_rev</td>
<td>Indicates that provider type was unknown for medical and mental health services received in 2018.</td>
</tr>
<tr>
<td>C_UseEmploy2018_rev</td>
<td>Indicates that sample member received employment services or employment training services (G2, G11) in 2018.</td>
</tr>
<tr>
<td>C_ServUse2018_rev</td>
<td>Indicates that sample member used one or more services (G2, G11, G16, G20) in 2018.</td>
</tr>
<tr>
<td>C_PhyTh2018_rev</td>
<td>Indicates that sample member received physical therapy in 2018.</td>
</tr>
<tr>
<td>C_OccTher2018_rev</td>
<td>Indicates that sample member received occupational therapy in 2018.</td>
</tr>
<tr>
<td>C_SpchTher2018_rev</td>
<td>Indicates that sample member received speech therapy in 2018.</td>
</tr>
<tr>
<td>C_Equip2018_rev</td>
<td>Indicates that sample member received special equipment or devices in 2018.</td>
</tr>
<tr>
<td>C_Coun2018_rev</td>
<td>Indicates that sample member received personal counseling or therapy in 2018.</td>
</tr>
<tr>
<td>C_GrpTh2018_rev</td>
<td>Indicates that sample member received group therapy in 2018.</td>
</tr>
<tr>
<td>C_WrkAs2018_rev</td>
<td>Indicates that sample member received a work or job assessment in 2018.</td>
</tr>
<tr>
<td>C_FindJob2018_rev</td>
<td>Indicates that sample member received help finding a job in 2018.</td>
</tr>
<tr>
<td>C_JobTrn2018_rev</td>
<td>Indicates that sample member received training to learn a new job or skill in 2018.</td>
</tr>
<tr>
<td>C_JobMod2018_rev</td>
<td>Indicates that sample member received advice about modifying his/her job or work place in 2018.</td>
</tr>
<tr>
<td>C_JobCch2018_rev</td>
<td>Indicates that sample member received on-the-job training, job coaching, or support services in 2018.</td>
</tr>
<tr>
<td>C_JobOJT2018_rev</td>
<td>Indicates that sample member received on-the-job training in 2018.</td>
</tr>
<tr>
<td>C_RxMed2018_rev</td>
<td>Indicates that sample member received prescription medications in 2018.</td>
</tr>
<tr>
<td>C_OtherServ2018_rev</td>
<td>Indicates that sample member received any other services at G2, G11, G16, or G20 in 2018.</td>
</tr>
</tbody>
</table>

### Section I: Health and Functional Status

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_EquipFuncLim</td>
<td>Sample member uses equipment/device for any functional/sensory/communication limitation including seeing, hearing, speaking, or walking. Based on I19, I23, I27, and I31.</td>
</tr>
<tr>
<td>C_NumSenLim</td>
<td>Number of sensory/communication limitations reported including difficulty seeing, hearing, or speaking. Based on I21 and I25.</td>
</tr>
<tr>
<td>C_NumSevSenLim</td>
<td>Number of severe sensory/communication limitations reported including inability to see, hear, or speak at all. Based on I18, I22, and I26.</td>
</tr>
<tr>
<td>C_NumPhyLim</td>
<td>Number of physical functional limitations reported including difficulty walking, climbing, lifting, grasping, reaching, standing, or stooping. Based on I29, I33, I35, I39, I41, and I43.</td>
</tr>
<tr>
<td>C_NumSevPhyLim</td>
<td>Number of severe physical functional limitations reported including inability to walk, climb, lift, grasp, reach, stand, or stoop at all. Based on I30, I34, I36, I38, I40, I42, and I44.</td>
</tr>
<tr>
<td>C_NumEmotLim</td>
<td>Number of emotional/social limitations including trouble concentrating, coping with stress, and getting along with others. Based on I59, I60, and I61.</td>
</tr>
<tr>
<td>C_NumADLs</td>
<td>Number of Activity of Daily Living tasks report difficulty with getting around home, getting into and out of bed, difficulty bathing, and difficulty eating. Based on I45, I49, I51, and I57.</td>
</tr>
</tbody>
</table>
## Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_NumADLAssist</td>
<td>Number of Activity of Daily Living tasks require assistance with including getting around home, getting into and out of bed, bathing, and eating. Based on I46, I50, I52, and I58.</td>
</tr>
<tr>
<td>C_NumIADLs</td>
<td>Number of Instrumental Activities of Daily Living tasks report difficulty with including getting around outside home, shopping, and preparing meals. Based on I47, I53, and I55.</td>
</tr>
<tr>
<td>C_NumIADLAssist</td>
<td>Number of Instrumental Activities of Daily Living tasks require assistance with including getting around outside home, shopping, and preparing meals. Based on I48, I54, and I56.</td>
</tr>
<tr>
<td>C_SF8BP</td>
<td>SF-8 bodily pain scale value. Based on I4.</td>
</tr>
<tr>
<td>C_SF8GH</td>
<td>SF-8 general health scale value. Based on I1.</td>
</tr>
<tr>
<td>C_SF8MH</td>
<td>SF-8 mental health scale value. Based on I7.</td>
</tr>
<tr>
<td>C_SF8PF</td>
<td>SF-8 physical functioning scale value. Based on I2.</td>
</tr>
<tr>
<td>C_SF8RE</td>
<td>SF-8 role emotional scale value. Based on I8.</td>
</tr>
<tr>
<td>C_SF8RP</td>
<td>SF-8 role physical scale value. Based on I3.</td>
</tr>
<tr>
<td>C_SF8SF</td>
<td>SF-8 social functioning scale value. Based on I6.</td>
</tr>
<tr>
<td>C_SF8VT</td>
<td>SF-8 vitality scale value. Based on I5.</td>
</tr>
<tr>
<td>C_PCSBP</td>
<td>Physical (PCS-8) Weights for Bodily Pain.</td>
</tr>
<tr>
<td>C_PCSGH</td>
<td>Physical (PCS-8) Weights for General Health.</td>
</tr>
<tr>
<td>C_PCSMH</td>
<td>Physical (PCS-8) Weights for Mental Health.</td>
</tr>
<tr>
<td>C_PCSPF</td>
<td>Physical (PCS-8) Weights for Physical Functioning.</td>
</tr>
<tr>
<td>C_PCSRE</td>
<td>Physical (PCS-8) Weights for Role Emotional.</td>
</tr>
<tr>
<td>C_PCSRIP</td>
<td>Physical (PCS-8) Weights for Role Physical.</td>
</tr>
<tr>
<td>C_PCSSF</td>
<td>Physical (PCS-8) Weights for Social Functioning.</td>
</tr>
<tr>
<td>C_PCSVT</td>
<td>Physical (PCS-8) Weights for Vitality.</td>
</tr>
<tr>
<td>C_MCSBP</td>
<td>SF-8 Mental (MCS-8) Weight for Bodily Pain.</td>
</tr>
<tr>
<td>C_MCSGH</td>
<td>SF-8 Mental (MCS-8) Weight for General Health.</td>
</tr>
<tr>
<td>C_MCSMH</td>
<td>SF-8 Mental (MCS-8) Weight for Mental Health.</td>
</tr>
<tr>
<td>C_MCSPF</td>
<td>SF-8 Mental (MCS-8) Weight for Physical Functioning.</td>
</tr>
<tr>
<td>C_MCSRE</td>
<td>SF-8 Mental (MCS-8) Weight for Role Emotional.</td>
</tr>
<tr>
<td>C_MCSRIP</td>
<td>SF-8 Mental (MCS-8) Weight for Role Physical.</td>
</tr>
<tr>
<td>C_MCSSF</td>
<td>SF-8 Mental (MCS-8) Weight for Social Functioning.</td>
</tr>
<tr>
<td>C_MCSVT</td>
<td>SF-8 Mental (MCS-8) Weight for Vitality.</td>
</tr>
<tr>
<td>C_PCS8TOT</td>
<td>SF-8 standardized aggregate summary physical health score (higher scores are indicative of better health). Based on C_PCSGH, C_PCSPF, C_PCSRIP, C_PCSBP, C_PCSVT, C_PCSRE, C_PCSMH, and C_PCSRE.</td>
</tr>
<tr>
<td>C_MCS8TOT</td>
<td>SF-8 standardized aggregate mental health summary score (higher scores are indicative of better health). Based on C_MCSGH, C_MCSPF, C_MCSRIP, C_MCSBP, C_MCSVT, C_MCSSF, C_MCSMH, C_MCSRE.</td>
</tr>
<tr>
<td>C_CAGEAlcohol</td>
<td>Summary of affirmative responses to CAGE items: I62-I65 (higher scores are indicative of greater alcohol dependence).</td>
</tr>
<tr>
<td>C_DrugDep</td>
<td>Summary of drug dependence items: I72-I76 (higher scores are indicative of greater drug dependence)</td>
</tr>
</tbody>
</table>
### Table G.1 (continued)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section J: Health Insurance</strong></td>
<td></td>
</tr>
<tr>
<td>C_CurMedicare</td>
<td>Currently covered by Medicare. Based on response to J1 or J9_2.</td>
</tr>
<tr>
<td>C_CurMedicaid</td>
<td>Currently covered by Medicaid. Based on response to J2 or J9_1.</td>
</tr>
<tr>
<td>C_CurMillInsur</td>
<td>Currently covered by military insurance. Based on response to J4 or J9_3.</td>
</tr>
<tr>
<td>C_CurIndInsur</td>
<td>Currently covered by Indian Health Insurance. Based on response to J9_4.</td>
</tr>
<tr>
<td>C_CurMedigap</td>
<td>Currently covered by Medi-Gap. Based on response to J9_5.</td>
</tr>
<tr>
<td>C_CurStAssist</td>
<td>Currently covered by State program. Based on response to J9_6.</td>
</tr>
<tr>
<td>C_CurPrivEmp</td>
<td>Currently covered by private insurance through own employer. Based on response to J6 or J9_7.</td>
</tr>
<tr>
<td>C_CurPrivSp</td>
<td>Currently covered by private insurance through spouse/partner/parent. Based on response to J6 or J9_8.</td>
</tr>
<tr>
<td>C_CurOtherInsur</td>
<td>Currently covered by other plan. Coded &quot;yes&quot; if report coverage associated with Indian Health Service, Medi-Gap, State program, or other plan.</td>
</tr>
<tr>
<td>C_CurNoInsur</td>
<td>Currently not covered by any insurance. Coded &quot;yes&quot; if J8=1 or no insurance coverage mentioned in J9.</td>
</tr>
<tr>
<td><strong>Section K: Income and Other Assistance</strong></td>
<td></td>
</tr>
<tr>
<td>C_LstMnthPay</td>
<td>Last month pay (pre-tax). Based on K3 (logical zero coded if K3=.L).</td>
</tr>
<tr>
<td>C_AmtPrivDis</td>
<td>Amount received from Private Disability last month. Based on K6 (logical zero coded if K6_a=0).</td>
</tr>
<tr>
<td>C_AmtWorkComp</td>
<td>Amount received from Workers' Compensation last month. Based on K6 (logical zero coded if K6_b=0).</td>
</tr>
<tr>
<td>C_AmtVetBen</td>
<td>Amount received from Veterans' Benefits last month. Based on K6 (logical zero coded if K6_c=0).</td>
</tr>
<tr>
<td>C_AmtPubAssis</td>
<td>Amount received from public assistance or welfare payments last month. Based on K6 (logical zero coded if K6_d=0).</td>
</tr>
<tr>
<td>C_AmtUnemply</td>
<td>Amount received from Unemployment benefits last month. Based on K6 (logical zero coded if K6_e=0).</td>
</tr>
<tr>
<td>C_AmtPrivPen</td>
<td>Amount received from Private Pensions or government pensions last month. Based on K6 (logical zero coded if K6_f=0).</td>
</tr>
<tr>
<td>C_AmtOthReg</td>
<td>Amount received from other sources not on a regular basis last month. Based on K6 (logical zero coded if K6_g=0).</td>
</tr>
<tr>
<td>C_AmtOthRegSum</td>
<td>Amount from all sources received on regular basis last month. Summary of imputed values for C_AmtOthReg, C_AmtPrivDis, C_AmtWorkComp, C_AmtVetBen, C_AmtPubAssis, C_AmtUnemply, C_AmtPrivPen, and income received from Social Security last month (N_TotSSbenLastMnth) (imputed values).</td>
</tr>
<tr>
<td>C_AmtOthNonReg</td>
<td>Amount received from other sources not on a regular basis last month. Based on K6 (logical zero coded if K6_h=0).</td>
</tr>
<tr>
<td>C_AmtFoodStamp</td>
<td>Amount received from Food Stamps last month. Based on K12 (logical zero coded if K12=0).</td>
</tr>
<tr>
<td>C_AmtOthgov</td>
<td>Amount received from any other government program last month. Based on K15 (logical zero coded if K15=0).</td>
</tr>
<tr>
<td>C_TotGovCashBen</td>
<td>Total government cash benefits received. Summary of imputed values for C_AmtVetBen, C_AmtPubAssis, and N_TotSSbenLastMnth (imputed values).</td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>C_TotNonCashBen</td>
<td>Total non-cash benefits received. Summary of C_AmtFoodStamp, and C_AmtOthGov.</td>
</tr>
<tr>
<td><strong>Section L: Sociodemographic Information</strong></td>
<td></td>
</tr>
<tr>
<td>C_Cohab</td>
<td>Indicates that sample member lives with spouse or partner. Based on L8, L9, and L10.</td>
</tr>
<tr>
<td>C_BMI</td>
<td>Body Mass Index score. Based on L6ft, L6in, and L7.</td>
</tr>
<tr>
<td>C_BMI_cat</td>
<td>Body Mass Index categories. Based on C_BMI.</td>
</tr>
<tr>
<td>C_NumChildhh</td>
<td>Total number of children in household. Based on L17.</td>
</tr>
<tr>
<td>C_NumChildhhh</td>
<td>Total number of children outside household. Based on L20.</td>
</tr>
<tr>
<td>C_NumChildren</td>
<td>Total number of children. Summary of C_NumChildhh and C_NumChildhhh.</td>
</tr>
<tr>
<td>C_Numchildren_pov</td>
<td>Total number of children calculated for use in Federal Poverty Index. Coded as &quot;0&quot; if live in group quarters. If live with un-related others, counts own children only.</td>
</tr>
<tr>
<td>C_FedPovertyLevel</td>
<td>Percent of federal poverty threshold relative to number of people in household for 2018. Based on Census Bureau 2018 thresholds. (Values 1 and 2 have household income that is below the federal poverty threshold, and values 3 and above are at or above the federal poverty threshold. For example, value 5 represents those with 200 to 249 percent, or 2 to 2.49 times, the federal poverty threshold for households).</td>
</tr>
<tr>
<td>C_HhInc2018</td>
<td>Total household income in 2018. Based on L23Ahop and L23Aamt.</td>
</tr>
<tr>
<td><strong>SSA Administrative Variables</strong></td>
<td></td>
</tr>
<tr>
<td>N_BENSTATATINT2</td>
<td>Beneficiary status at interview (if status is missing at the time of interview, we use SSA’s administrative records at the time the sample was drawn) (From SSA administrative records)</td>
</tr>
<tr>
<td>N_BFW_RECENT</td>
<td>Benefits forgone for work</td>
</tr>
<tr>
<td>N_BIC_ATSAMP</td>
<td>Beneficiary identification code at sampling</td>
</tr>
<tr>
<td>N_BIC_ATINT</td>
<td>Beneficiary identification code at interview</td>
</tr>
<tr>
<td>N_MEDEX_ATSAMP</td>
<td>Medical improvement indicator at sampling</td>
</tr>
<tr>
<td>N_MEDEX_ATINT</td>
<td>Medical improvement indicator at interview</td>
</tr>
<tr>
<td>N_DAC</td>
<td>Disabled Adult Child</td>
</tr>
<tr>
<td>N_DEPEN_ATINT</td>
<td>SSDI dependent benefits due at interview</td>
</tr>
<tr>
<td>N_DEPENLASTMNTH</td>
<td>SSDI dependent benefit payment amount last month</td>
</tr>
<tr>
<td>N_IMP_CIRC</td>
<td>Circulatory impairment</td>
</tr>
<tr>
<td>N_IMP_ENDO</td>
<td>Endocrine impairment</td>
</tr>
<tr>
<td>N_IMP_ID</td>
<td>Intellectual disability</td>
</tr>
<tr>
<td>N_IMP_INJ</td>
<td>Injury or poisoning</td>
</tr>
<tr>
<td>N_IMP_MISSING</td>
<td>Missing impairment</td>
</tr>
<tr>
<td>N_IMP_MUSC</td>
<td>Musculoskeletal impairment</td>
</tr>
<tr>
<td>N_IMP_NEO</td>
<td>Neoplasm</td>
</tr>
<tr>
<td>N_IMP_NERV</td>
<td>Nervous system impairment</td>
</tr>
<tr>
<td>N_IMP_OTHER</td>
<td>Other impairment</td>
</tr>
<tr>
<td>N_IMP_PSYCH</td>
<td>Psychiatric impairment</td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>N_IMP_RESP</td>
<td>Respiratory impairment</td>
</tr>
<tr>
<td>N_IMP_SENS</td>
<td>Sensory impairment</td>
</tr>
<tr>
<td>N_MFT</td>
<td>Master file type</td>
</tr>
<tr>
<td>N_MTHSEARLENT</td>
<td>Months Since Earliest SSI or SSDI Entitlement Date</td>
</tr>
<tr>
<td>N_MTHSRECENT</td>
<td>Months Since Most Recent SSI or SSDI Entitlement Date</td>
</tr>
<tr>
<td>N_ONSETDATE_SSDI</td>
<td>SSDI onset date</td>
</tr>
<tr>
<td>N_ONSETDATE_SSI</td>
<td>SSI onset date</td>
</tr>
<tr>
<td>N_PIAATINT</td>
<td>Primary Insurance Amount (PIA)</td>
</tr>
<tr>
<td>N_RepPayee</td>
<td>Representative Payee</td>
</tr>
<tr>
<td>N_SSDI_ATINT</td>
<td>SSDI benefit due at interview</td>
</tr>
<tr>
<td>N_SSDILASTMNTH</td>
<td>SSDI payment last month</td>
</tr>
<tr>
<td>N_SSDINOMCR_ATINT</td>
<td>SSDI no Medicare at Interview</td>
</tr>
<tr>
<td>N_SSI_ATINT</td>
<td>SSI benefit due at interview</td>
</tr>
<tr>
<td>N_SSILASTMNTH</td>
<td>State and federal SSI payment last month</td>
</tr>
<tr>
<td>N_STW_AtInt</td>
<td>SSA benefits are in suspense or terminated because of work at interview</td>
</tr>
<tr>
<td>N_STW_EVER</td>
<td>Ever experienced suspense or termination of cash benefits due to work</td>
</tr>
<tr>
<td>N_STW_MNTHS_RECENT</td>
<td>STW months since most recent eligibility</td>
</tr>
<tr>
<td>N_TOC_ATSAMP</td>
<td>Type of claim at sampling</td>
</tr>
<tr>
<td>N_TOC_ATINT</td>
<td>Type of claim at interview</td>
</tr>
<tr>
<td>N_TOTSSBEN_ATINT</td>
<td>Total SSI and SSDI benefits due at interview</td>
</tr>
<tr>
<td>N_TotSSbenLastMnth</td>
<td>Total SSI and SSDI payment last month</td>
</tr>
<tr>
<td>N_TTWMNTHS_ASSGN</td>
<td>Number of months since TTW ticket first assigned as of interview date</td>
</tr>
<tr>
<td>N_TTWPART_ATINT</td>
<td>Ticket to Work participant at interview</td>
</tr>
<tr>
<td>N_TTWPARTEVER</td>
<td>TTW participant ever</td>
</tr>
<tr>
<td>N_TTWPMNT_TYPE</td>
<td>Ticket to Work payment type</td>
</tr>
<tr>
<td>N_TTWPROV_TYPE</td>
<td>Ticket to Work provider type</td>
</tr>
</tbody>
</table>
Appendix H

Variables dropped or replaced on public use file and reason for drop/replacement
This page has been left blank for double-sided copying.
Table H.1. Variables dropped or replaced on public use file and reason for drop/replacement

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
<th>File Status</th>
<th>Reasons for Drop/Replace</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7_PIN</td>
<td>PIN</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_FINAL</td>
<td>Final Status Code</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_LASTDATE</td>
<td>Interview Date</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_C_INTDAY</td>
<td>Day of Interview</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_C_INTMNTH</td>
<td>Month of Interview</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_C_INTYEAR</td>
<td>Year of Interview</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_PROXY_FLAG</td>
<td>Proxy Flag</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_C_INTMODE</td>
<td>CATI or CAPI Interview Mode</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_INTERVIEWLANGUAGE</td>
<td>Interview Language</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_C_INTAGE</td>
<td>Age at Interview</td>
<td>Replace</td>
<td>Possible identifier. Use C_IntAge_PUB</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_DOB</td>
<td>Sample Date of Birth from SSA administrative records</td>
<td>Drop</td>
<td>Unique Identifier</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_SDATE</td>
<td>Date Sample Frame Pulled</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_SSIAge</td>
<td>Sample Age First Received SSI Benefits</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_PSU</td>
<td>Sample PSU</td>
<td>Drop</td>
<td>Contains geographic Information and not necessary. Use A_PSU_PUB</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_EXTRACT</td>
<td>SWS Sample Extract</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_RELEASE</td>
<td>Sample Release Number</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_AGE</td>
<td>Sample Age</td>
<td>Drop</td>
<td>Have age at interview construct</td>
</tr>
<tr>
<td>R7_OrgSampInfo_PrimDiagT16</td>
<td>PRIMARY DIAGNOSIS-T16</td>
<td>Drop</td>
<td>SSA Admin Data and possible identifier</td>
</tr>
<tr>
<td>R7_OrgSampInfo_PrimDiagT2</td>
<td>PRIMARY DIAGNOSIS-T2</td>
<td>Drop</td>
<td>SSA Admin Data and possible identifier</td>
</tr>
<tr>
<td>R7_OrgSampInfo_SecDiagT16</td>
<td>SECONDARY DIAGNOSIS-T16</td>
<td>Drop</td>
<td>SSA Admin Data and possible identifier</td>
</tr>
<tr>
<td>R7_OrgSampInfo_SecDiagT2</td>
<td>SECONDARY DIAGNOSIS-T2</td>
<td>Drop</td>
<td>SSA Admin Data and possible identifier</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_RACE</td>
<td>Sample Race</td>
<td>Drop</td>
<td>Have survey race construct</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_SWSFRAME</td>
<td>SWS Frame</td>
<td>Drop</td>
<td>Survey Administration Variable</td>
</tr>
<tr>
<td>R7_ORGSAMPINFO_STATUS6LEVEL</td>
<td>Disposition code</td>
<td>Drop</td>
<td>Survey Administration Variable</td>
</tr>
<tr>
<td>R7_C_COHORT</td>
<td>Beneficiary Age Cohort</td>
<td>Drop</td>
<td>Possible identifier. Use A_Strata_PUB</td>
</tr>
<tr>
<td>R7_A_PSU</td>
<td>PSU identifier (after a_strata in NEST statement in SUDAAN)</td>
<td>Drop</td>
<td>Geographic information. Use A_PSU_PUB.</td>
</tr>
</tbody>
</table>
## Table H.1 (continued)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
<th>File Status</th>
<th>Reasons for Drop/Replace</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7_A68</td>
<td>Reported Month of Birth</td>
<td>Drop</td>
<td>Unique Identifier</td>
</tr>
<tr>
<td>R7_A68a</td>
<td>Reported Day of Birth</td>
<td>Drop</td>
<td>Unique Identifier</td>
</tr>
<tr>
<td>R7_A68b</td>
<td>Reported Year of Birth</td>
<td>Drop</td>
<td>Unique Identifier</td>
</tr>
<tr>
<td>R7_A69</td>
<td>Reported Age</td>
<td>Drop</td>
<td>Possible identifier. Have age at interview construct.</td>
</tr>
<tr>
<td>R7_A73</td>
<td>Respondent and Interview Type</td>
<td>Drop</td>
<td>Have respondent type construct (C_RTYPE) and interview mode (C_INTMODE)</td>
</tr>
<tr>
<td>R7_A73A</td>
<td>Currently Working</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A73B</td>
<td>Worked for Pay or Profit in Last 6 Months</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A74</td>
<td>Resp Lists Topics of Survey (First Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A76</td>
<td>Resp Lists Topics of Survey (Second Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A77</td>
<td>Resp Understands Voluntary (First Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A77a</td>
<td>Resp Understands Voluntary (Second Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A78</td>
<td>Resp Understands Confidential (First Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A78a</td>
<td>Resp Understands Confidential (Second Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A86</td>
<td>New Proxy Lists Topics of Survey (First Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A88</td>
<td>New Proxy Lists Topics of Survey (Second Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A89</td>
<td>New Proxy Understands Voluntary (First Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A89a</td>
<td>New Proxy Understands Voluntary (Second Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A90</td>
<td>New Proxy Understands Confidential (First Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A90a</td>
<td>New Proxy Understands Confidential (Second Time)</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_A92</td>
<td>Proxy Failed Cognitive Test</td>
<td>Drop</td>
<td>Survey administration variable-screener items</td>
</tr>
<tr>
<td>R7_B5</td>
<td>Currently Receiving Benefits</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_B7</td>
<td>Eligible for Other Reasons</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_B11</td>
<td>Still Have Conditions That Made Elig</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>Variable</td>
<td>Label</td>
<td>File Status</td>
<td>Reasons for Drop/Replace</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
<td>-------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>R7_B13</td>
<td>Previously Eligible for Other Reasons</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_B16</td>
<td>Limited by Other Conds When First Received Benefits</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_B18_age</td>
<td>Age First Became Limited</td>
<td>Replace</td>
<td>Possible identifier. Use C_ADULTCHILD_ONSET_I</td>
</tr>
<tr>
<td>R7_B18_year</td>
<td>Year First Became Limited</td>
<td>Drop</td>
<td>Possible identifier.</td>
</tr>
<tr>
<td>R7_B19</td>
<td>Limited Before 19</td>
<td>Replace</td>
<td>Possible identifier. Use C_ADULTCHILD_ONSET_I</td>
</tr>
<tr>
<td>R7_B24</td>
<td>Currently Working</td>
<td>Drop</td>
<td>Have imputed</td>
</tr>
<tr>
<td>R7_B24_IFLAG</td>
<td>Currently Working, Imputation Flag</td>
<td>Drop</td>
<td>IFLAG - No analytic value</td>
</tr>
<tr>
<td>R7_B24C</td>
<td>Interviewing Only People Working or who Worked in past 6 Months</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_B28b</td>
<td>Hours per Week Would Like to Work</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<tr>
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### Table H.1 (continued)

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## Table H.1 (continued)

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<td>R7_C_SecconColDiagGrp_3</td>
<td>Sec Con Primary Diag Grp Collapsed (Code 33)</td>
<td>Drop</td>
<td>Little analytic value. Drop additional codes listed under &quot;main reason eligible&quot; item.</td>
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<td>R7_C_SecconColDiagGrp_4</td>
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<td>R7_C_SecconColDiagGrp_5</td>
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<td>Drop</td>
<td>Little analytic value. Drop additional codes listed under &quot;main reason eligible&quot; item.</td>
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<tr>
<td>R7_C_SecconColDiagGrp_6</td>
<td>Sec Con Primary Diag Grp Collapsed (Code 66)</td>
<td>Drop</td>
<td>Little analytic value. Drop additional codes listed under &quot;main reason eligible&quot; item.</td>
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<tr>
<td>R7_C_SecconColDiagGrp_7</td>
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<td>Drop</td>
<td>Little analytic value. Drop additional codes listed under &quot;main reason eligible&quot; item.</td>
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<td>R7_C_SecconColDiagGrp_8</td>
<td>Sec Con Primary Diag Grp Collapsed (Code 88)</td>
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<td>Little analytic value. Drop additional codes listed under &quot;main reason eligible&quot; item.</td>
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<td>Little analytic value. Drop additional codes listed under &quot;main reason eligible&quot; item.</td>
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<td>Reason Became Eligible, Diagnosis Group NEW</td>
<td>Drop</td>
<td>Possible identifier. Possibly use broad categories. This variable combines responses from B6, B12, and B15.</td>
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<td>Possible identifier. Possibly use broad categories. This variable combines responses from B6, B12, and B15.</td>
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<td>Reason Became Eligible Body Group (Code 1)</td>
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### Table H.1 (continued)

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<td>Small cell sizes; identifying</td>
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<td>R7_C_DisAge</td>
<td>Age at Onset of Disability</td>
<td>Drop</td>
<td>Possible identifier. Use C_ADULTCHILD_ONSET_I instead.</td>
</tr>
<tr>
<td>R7_C_DISAGE_I</td>
<td>Age at Onset of Disability, Imputed</td>
<td>Drop</td>
<td>Possible identifier. Use C_ADULTCHILD_ONSET_I instead.</td>
</tr>
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<td>Age at Onset of Disability, Imputation Flag</td>
<td>Drop</td>
<td>IFLAG - No analytic value</td>
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<tr>
<td>R7_C_AdultChild_Onset</td>
<td>Adult/Child Onset of Disability</td>
<td>Drop</td>
<td>Have imputed</td>
</tr>
<tr>
<td>R7_C_ADULTCHILD_ONSET_IFLAG</td>
<td>Adult/Child Onset of Disability, Imputation Flag</td>
<td>Drop</td>
<td>IFLAG - No analytic value</td>
</tr>
<tr>
<td>R7_C_HrPayNeeded</td>
<td>Hourly pay needed to accept Job</td>
<td>Replace</td>
<td>Small cell sizes; possible identifier.</td>
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<tr>
<td>R7_c_hrpayneed_looking</td>
<td>Hourly Pay Needed to Enter Workforce for Beneficiaries Looking for Work</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_C_HRPAYNEED_NOTLOOKING</td>
<td>Hourly Pay Needed to Enter Workforce for Beneficiaries not Looking for Work</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_C1</td>
<td>Number Current Jobs</td>
<td>Drop</td>
<td>Have imputed</td>
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<tr>
<td>R7_C1_I</td>
<td>Number Current Jobs, Imputed</td>
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<td>Small cell sizes; possible identifier for more than 1 job</td>
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<td>Number Current Jobs, Imputation Flag</td>
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<td>IFLAG - No analytic value</td>
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### Table H.1 (continued)

<table>
<thead>
<tr>
<th>Variable</th>
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<th>Reasons for Drop/Replace</th>
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<tr>
<td>R7_C4mth_1</td>
<td>Month Started Current Job (Job 1)</td>
<td>Drop</td>
<td>Possible identifier. Have months at main current job construct (C_MNTHSMAINCURJOB)</td>
</tr>
<tr>
<td>R7_C4yr_1</td>
<td>Year Started Current Job (Job 1)</td>
<td>Drop</td>
<td>Possible identifier. Have months at main current job construct (C_MNTHSMAINCURJOB)</td>
</tr>
<tr>
<td>R7_C5b_1</td>
<td>Notified SSA Working Weeks or Months (Job 1)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_C5BWEEEK_1</td>
<td>Number Weeks Before Notified SSA (Job 1)</td>
<td>Drop</td>
<td>Have construct for number weeks to report job to SSA (C_MAINCURJOBREPSSA)</td>
</tr>
<tr>
<td>R7_C5BMONTH_1</td>
<td>Number Months Before Notified SSA (Job 1)</td>
<td>Drop</td>
<td>Have contract for number weeks to report job to SSA (C_MAINCURJOBREPSSA)</td>
</tr>
<tr>
<td>R7_C6_1</td>
<td>Self-employed at Current Job (Job 1)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_C8_1</td>
<td>Hours per Week Usually Work at Current Job (Job 1)</td>
<td>Drop</td>
<td>Have imputed</td>
</tr>
<tr>
<td>R7_C8_1_I</td>
<td>Hours per Week Usually Work at Current Job (Job 1), Imputed</td>
<td>Drop</td>
<td>Possible identifier. Use C_TotCurWkHrs and C_TotCurHrMnth</td>
</tr>
<tr>
<td>R7_C8_1_IFLAG</td>
<td>Hours per Week Usually Work at Current Job (Job 1), Imputation Flag</td>
<td>Drop</td>
<td>IFLAG - No analytic value</td>
</tr>
<tr>
<td>R7_C9_1</td>
<td>Weeks per Year Usually Work at Current Job (Job 1)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_C11_1</td>
<td>Regular Hourly Pay at Current Job (Job 1)</td>
<td>Drop</td>
<td>Possible identifier for outliers. Have hourly pay construct (C_MainCurJobHrPay)</td>
</tr>
<tr>
<td>R7_C12amt_1</td>
<td>Amount Paid Before Taxes at Current Job (Job 1)</td>
<td>Drop</td>
<td>Possible identifier for outliers. Have hourly and monthly pay constructs</td>
</tr>
<tr>
<td>R7_C12hop_1</td>
<td>How Often Paid at Current Job (Job 1)</td>
<td>Drop</td>
<td>Possible identifier for outliers. Have hourly and monthly pay constructs</td>
</tr>
<tr>
<td>R7_C13amt_1</td>
<td>Amount Take Home Pay at Current Job (Job 1)</td>
<td>Drop</td>
<td>Possible identifier for outliers. Have hourly and monthly pay constructs</td>
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</table>
**Table H.1 (continued)**

<table>
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<th>Variable</th>
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<td>Possible identifier for outliers. Have hourly and monthly pay constructs</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>(C_MainCurJobHrPayTH, C_MainCurJobMnthPayTH)</td>
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<tr>
<td>R7_C16</td>
<td>Received Promotion in Past 12 Months</td>
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<td>R7_C20_e</td>
<td>Employer Offers Childcare</td>
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<td>Small cell sizes; identifying</td>
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<td>R7_C20_i</td>
<td>Employer Offers Flex Health Spending</td>
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<tr>
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<td>Month Started Current Job (Job 2)</td>
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<td>Possible identifier. Have months at main current job construct (C_MNTHSMAINCURJOB)</td>
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<td>Year Started Current Job (Job 2)</td>
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<td>Small cell sizes; identifying</td>
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<tr>
<td>R7_C5a_2</td>
<td>Notified SSA Working (Job 2)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<td>R7_C5b_2</td>
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<td>Drop</td>
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<td>Number Weeks Before Notified SSA (Job 2)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<td>R7_C5BMONTH_2</td>
<td>Number Months Before Notified SSA (Job 2)</td>
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<td>R7_C6_2</td>
<td>Self-employed at Current Job (Job 2)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
</tr>
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<td>Current Job Part of Sheltered Workshop (Job 2)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<tr>
<td>R7_C8_2</td>
<td>Hours per Week Usually Work at Current Job (Job 2)</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<td>R7_C9_2</td>
<td>Weeks per Year Usually Work at Current Job (Job 2)</td>
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<td>Small cell sizes; identifying</td>
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<td>Paid by Hour at Current Job (Job 2)</td>
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<tr>
<td>R7_C11_2</td>
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<td>Amount Paid Before Taxes at Current Job (Job 2)</td>
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### Table H.1 (continued)

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<td>R7_C9_3</td>
<td>Weeks per Year Usually Work at Current Job (Job 3)</td>
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<tr>
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### Table H.1 (continued)

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### Table H.1 (continued)

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<td>How Often Paid in 2018 (Job 5)</td>
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<td>Health - New Health Problem Starts (Job 5)</td>
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<td>Health - Need to be Hospitalized (Job 5)</td>
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<td>R7_DP1a_1_6_5</td>
<td>Health - Needs Time to Go to Medical App. (Job 5)</td>
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<td>Health - Gets Fired for Missing Too Much Time for Apps. (Job 5)</td>
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<td>R7_DP1a_1_8_5</td>
<td>Health - Interferes with Job Performance (Job 5)</td>
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<td>Health - Lack Strength, Physical Energy, and Stamina (Job 5)</td>
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<td>Health - Personal Care Takes Too Long (Job 5)</td>
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<td>R7_DP1a_1_12_5</td>
<td>Health - Health Status Fluctuates Unpredictably (Job 5)</td>
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## Appendix H

### Table H.1 (continued)

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### Table H.1 (continued)

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<td>R7_JOB42018NAICS</td>
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## Table H.1 (continued)

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<td>R7_G7_3</td>
<td>Received Employment Services from Mental Health Agency in 2018</td>
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<tr>
<td>R7_G7_4</td>
<td>Received Employment Services from Other State Agency in 2018</td>
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<td>Received Employment Services from Private Business in 2018</td>
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<td>Received Employment Services at a School or College in 2018</td>
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### Table H.1 (continued)

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<td>R7_I36</td>
<td>Able to Lift or Carry 10 lbs At All</td>
<td>Drop</td>
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<tr>
<td>R7_I36_IFLAG</td>
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<tr>
<td>R7_I37</td>
<td>Difficulty Using Hands or Fingers</td>
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<td>Difficulty Standing</td>
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Appendix H
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<td>Trouble Concentrating</td>
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<td>R7_I61</td>
<td>Trouble getting Along With People</td>
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<tr>
<td>R7_I62</td>
<td>Felt Need to Cut Down on Drinking</td>
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<td>R7_I63</td>
<td>Ever Annoyed by People Criticizing Drinking</td>
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<td>R7_I64</td>
<td>Ever Felt Bad or Guilty About Drinking</td>
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<td>Ever Had Drink in Morning</td>
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<td>R7_I66</td>
<td>Doctor Advised to Stop Using Alcohol</td>
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<tr>
<td>R7_I67</td>
<td>Received Treatment for Alcohol</td>
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<td>Ever Used Drugs in Larger Amts than Prescribed</td>
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<td>Ever Used Drugs in Larger Amts than Prescribed, Imputed</td>
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<td>Ever Used Drugs in Larger Amts than Prescribed, Imputation Flag</td>
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<td>R7_I73</td>
<td>Needed Larger Amts To Get Effect</td>
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<tr>
<td>R7_I74</td>
<td>Have Emot/Phy Probs From Drugs</td>
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<td>Small cell sizes; identifying</td>
</tr>
<tr>
<td>R7_I75</td>
<td>Doctor Advised to Stop Using Non Prescrip Drugs</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<tr>
<td>R7_I76</td>
<td>Rec'd Treatment for Use of Non Prescrip Drugs</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<td>R7_C_EquipFuncLim</td>
<td>Uses equipment/device for functional/sensory/communication limitation</td>
<td>Drop</td>
<td>Imputed version on file</td>
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<td>R7_C_EQUIPFUNCLIM_IFLAG</td>
<td>Uses Equip/Device for Functional/Sensory Limitation, Imputation Flag</td>
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<td>Little analytic value</td>
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<td>R7_C_numSenLim</td>
<td>Number of Sensory/Communication Limitations</td>
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<td>Number Sensory Limitations, Imputed</td>
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<td>R7_C_NUMSEN Lim IFLAG</td>
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<tr>
<td>R7_C_NumSevSenLim</td>
<td>Number of Severe Sensory/Communication Limitations</td>
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<td>Drop</td>
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<td>R7_C_NumPhyLim</td>
<td>Number of Physical Functional Limitations</td>
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### Table H.1 (continued)

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<td>R7_C_SF8BP</td>
<td>SF8 Scores: Bodily Pain</td>
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<td>Summarized in constructs (C_PCS8TOT_I and C_MCS8TOT_I)</td>
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<td>R7_C_SF8GH</td>
<td>SF8 Scores: General Health</td>
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<td>SF8 Scores: Physical Functioning</td>
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<td>Drop</td>
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<td>SF8 Physical Summary Score, Imputation Flag</td>
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<td>Little analytic value</td>
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<td>SF8 Mental Summary Scale Score</td>
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<td>SF8 Mental Summary Score, Imputation Flag</td>
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<td>CAGE Alcohol score</td>
<td>Drop</td>
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<td>R7_C_AGESCORE_INDICATOR_IFLAG</td>
<td>CAGE Alcohol Score, Imputation Flag</td>
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<td>R7_C_DrugDep</td>
<td>Drug Dependence</td>
<td>Drop</td>
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<td>Drug Dependence, Imputed</td>
<td>Drop</td>
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<td>Drug Dependence, Imputed</td>
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<td>R7_J1</td>
<td>Currently Covered by Medicare</td>
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<td>Summarized in construct C_CURMEDICARE</td>
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<tr>
<td>R7_J2</td>
<td>Currently Covered by Medicaid</td>
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<td>Summarized in construct C_CURMEDICAID</td>
</tr>
<tr>
<td>R7_J4</td>
<td>Currently Covered by Military Health Care</td>
<td>Drop</td>
<td>Summarized in construct C_CURMILINSUR</td>
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<tr>
<td>R7_J5</td>
<td>Currently Covered by Private Health Insurance</td>
<td>Drop</td>
<td>Summarized in constructs C_CURPRIVEMP, C_CURPRIVSP, C_CURPRIVSELF</td>
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<tr>
<td>R7_J6</td>
<td>Source of Private Health Insurance</td>
<td>Drop</td>
<td>Summarized in constructs C_CURPRIVEMP, C_CURPRIVSP, C_CURPRIVSELF</td>
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<tr>
<td>R7_J9_1</td>
<td>Currently Have Medicaid</td>
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<td>Summarized in construct C_CURMEDICAID</td>
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<tr>
<td>R7_J9_2</td>
<td>Currently Have Medicare</td>
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<tr>
<td>R7_J9_3</td>
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<td>Summarized in construct C_CURMILINSUR</td>
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<tr>
<td>R7_J9_4</td>
<td>Currently Have Indian Health Service</td>
<td>Drop</td>
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## Table H.1 (continued)

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<th>Reasons for Drop/Replace</th>
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<td>Currently Have State Program Health Insur</td>
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<td>Summarized in construct C_CURSTASSIST</td>
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<tr>
<td>R7_J9_7</td>
<td>Currently Have Private Insur Thru Employer</td>
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<tr>
<td>R7_J9_8</td>
<td>Currently Have Private Insur Thru Spouse/Partner/Parent</td>
<td>Drop</td>
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<tr>
<td>R7_J9_9</td>
<td>Currently Have Insurance Paid by SP/Family</td>
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<tr>
<td>R7_J9_10</td>
<td>Currently Have Other Health Coverage</td>
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<td>R7_J11_3</td>
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<td>Had State Program Health Insur in 2018</td>
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<td>Currently Covered by Indian Health</td>
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<tr>
<td>R7_C_CurMedigap</td>
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<tr>
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<td>Currently Covered by State Assistance</td>
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<td>R7_K2A</td>
<td>Worked Last Month</td>
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<td>R7_K3</td>
<td>Earnings Last Month Before Taxes</td>
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<td>Received Inc From Veteran’s Benefits Last Month</td>
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<td>Received Inc From Public Assistance Last Month</td>
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<tr>
<td>R7_K6_e</td>
<td>Received Inc From Unemploy benefits Last Month</td>
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<tr>
<td>R7_K6_f</td>
<td>Received Inc From Private Pensions Last Month</td>
<td>Drop</td>
<td>Possible identifier. Use C_INCSROUCE3_PUB</td>
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<tr>
<td>R7_K6_g</td>
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<td>Drop</td>
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<tr>
<td>R7_K7_c</td>
<td>Amount Received From Vets Benefits</td>
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<td>Amount Received From Public Assist</td>
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<td>R7_K7_e</td>
<td>Amount Received From Unemploy Benefits</td>
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### Table H.1 (continued)

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<td>R7_K10_f</td>
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<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<td>Small cell sizes; identifying</td>
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<td>Received Assist From Other Gov't Prog Last Month</td>
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<td>Received Food Assistance From Government</td>
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<td>Amount Received from Non-Reg Sources Last Month</td>
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<td>R7_C_AMTOTHREGSUM</td>
<td>Amount Received from All Regular Sources Last Month (Includes SSA administrative records)</td>
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<td>Total Government Cash Benefits Received (Includes SSA administrative records)</td>
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<td>Amount Received from Priv Dis Last Month (logical zero)</td>
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<td>Imputed version on file</td>
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<td>Amount Received from Priv Dis Last Month, Imputed</td>
<td>Drop</td>
<td>Possible identifier. Summarized in C_INCSOURCE1-7_PUB</td>
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<td>R7_C_AMTPRIVDIS_IFLAG</td>
<td>Amount Received from Priv Dis Last Month, Imputation</td>
<td>Drop</td>
<td>Little analytic value</td>
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<td>Amount Received from Workers Comp Last Month (logical zero)</td>
<td>Drop</td>
<td>Imputed version on file</td>
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<td>Drop</td>
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<td>Amount Received from Workers Comp Last Month, Imputation Flag</td>
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<td>Little analytic value</td>
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<td>Imputed version on file</td>
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<td>Variable</td>
<td>Label</td>
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<td>Reasons for Drop/Replace</td>
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<td>R7_C_AmtVetBen_I</td>
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<td>Drop</td>
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<td>Amount Received from Vet Ben Last Month, Imputation Flag</td>
<td>Drop</td>
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<td>Amount Received from Pub Assist Last Month (logical zero)</td>
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<td>Amount Received from Unemp Last Month (logical zero)</td>
<td>Drop</td>
<td>Imputed version on file</td>
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<td>Possible identifier. Summarized in C_INCSOURCE1-7_PUB</td>
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<td>R7_C_AMTUNEMPLY_IFLAG</td>
<td>Amount Received from Unemp Last Month, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
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<td>Amount Received from Private Pension Last Month (logical zero)</td>
<td>Drop</td>
<td>Imputed version on file</td>
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<td>R7_C_AMTPRIVPEN_IFLAG</td>
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<td>Little analytic value</td>
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<td>Amount Received from Other Regular Sources Last Month (logical zero)</td>
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<td>Small cell sizes; identifying</td>
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<td>Amount Received from Reg Sources Last Month, Imputed</td>
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<td>Amount Received from Reg Sources Last Month, Imputation Flag</td>
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<td>R7_C_AmtFoodStamp</td>
<td>Amount Received from Food Stamps Last Month (logical zero)</td>
<td>Drop</td>
<td>Possible identifier for outliers. Combine with other non-cash benefits</td>
</tr>
<tr>
<td>R7_C_AmtOthGov</td>
<td>Amount Received from Other Gov Program Last Month (logical zero)</td>
<td>Drop</td>
<td>Possible identifier for outliers. Combine with other non-cash benefits</td>
</tr>
<tr>
<td>Variable</td>
<td>Label</td>
<td>File Status</td>
<td>Reasons for Drop/Replace</td>
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<tr>
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<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>R7_C_TotNonCashBen</td>
<td>Total Non-Cash Benefits Received</td>
<td>Replace</td>
<td>Possible identifier. Use C_TotNonCashBen_PUB</td>
</tr>
<tr>
<td>R7_L1</td>
<td>Ethnic Background</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>R7_L1_I</td>
<td>Ethnic Background, Imputed</td>
<td>Replace</td>
<td>Replaced with R7_L1_I_PUB</td>
</tr>
<tr>
<td>R7_L1_IFLAG</td>
<td>Ethnic Background, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_L2_1</td>
<td>Alaska Native or American Indian</td>
<td>Drop</td>
<td>Possible identifier. Use C_RACE_I_PUB</td>
</tr>
<tr>
<td>R7_L2_2</td>
<td>Asian</td>
<td>Drop</td>
<td>Possible identifier. Use C_RACE_I_PUB</td>
</tr>
<tr>
<td>R7_L2_3</td>
<td>Black or African American</td>
<td>Drop</td>
<td>Possible identifier. Use C_RACE_I_PUB</td>
</tr>
<tr>
<td>R7_L2_4</td>
<td>Native Hawaiian or Other Pacific Islander</td>
<td>Drop</td>
<td>Possible identifier. Use C_RACE_I_PUB</td>
</tr>
<tr>
<td>R7_L2_5</td>
<td>White</td>
<td>Drop</td>
<td>Possible identifier. Use C_RACE_I_PUB</td>
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<tr>
<td>R7_L3</td>
<td>Highest Year/Grade Finished in School</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>R7_L3_I</td>
<td>Highest Year/Grade Finished in School, Imputed</td>
<td>Replace</td>
<td>Possible identifier. Use L3_i_PUB.</td>
</tr>
<tr>
<td>R7_L3_IFLAG</td>
<td>Highest Year/Grade Finished in School, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_L4</td>
<td>Highest Year/Grade Father Finished in School</td>
<td>Replace</td>
<td>Possible identifier. Use L4_PUB.</td>
</tr>
<tr>
<td>R7_L5</td>
<td>Highest Year/Grade Mother Finished in School</td>
<td>Replace</td>
<td>Possible identifier. Use L5_PUB.</td>
</tr>
<tr>
<td>R7_L6ft</td>
<td>Height: Feet</td>
<td>Drop</td>
<td>Possible identifier. Summarized in C_BMI_CAT_I</td>
</tr>
<tr>
<td>R7_L6in</td>
<td>Height: Inches</td>
<td>Drop</td>
<td>Possible identifier. Summarized in C_BMI_CAT_I</td>
</tr>
<tr>
<td>R7_L7</td>
<td>Weight</td>
<td>Drop</td>
<td>Possible identifier. Summarized in C_BMI_CAT_I</td>
</tr>
<tr>
<td>R7_L8</td>
<td>Marital Status</td>
<td>Drop</td>
<td>Imputed version on file</td>
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<tr>
<td>R7_L8_I</td>
<td>Marital Status, Imputed</td>
<td>Replace</td>
<td>Possible identifier. Use L8_i_PUB.</td>
</tr>
<tr>
<td>R7_L8_IFLAG</td>
<td>Marital Status, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_L9</td>
<td>Live With Spouse</td>
<td>Drop</td>
<td>Possible identifier. Use C_COHAB_I_L8_i_PUB</td>
</tr>
<tr>
<td>R7_L10</td>
<td>Live With Partner</td>
<td>Drop</td>
<td>Possible identifier. Use C_COHAB_I_L8_i_PUB</td>
</tr>
<tr>
<td>R7_L11</td>
<td>Living Situation</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>Variable</td>
<td>Label</td>
<td>File Status</td>
<td>Reasons for Drop/Replace</td>
</tr>
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<td>-------------------------------------------------</td>
</tr>
<tr>
<td>R7_L11_I</td>
<td>Living Situation, Imputed</td>
<td>Replace</td>
<td>Possible identifier. Use L11_i_PUB.</td>
</tr>
<tr>
<td>R7_L11_IFLAG</td>
<td>Living Situation, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_L12</td>
<td>Type of Place Live</td>
<td>Replace</td>
<td>Possible identifier. Use L12_PUB.</td>
</tr>
<tr>
<td>R7_L16</td>
<td>Number Adults 18 and Older in Household</td>
<td>Replace</td>
<td>Possible identifier. Use C_NUMADULTHH_PUB</td>
</tr>
<tr>
<td>R7_L17</td>
<td>Number of Children Under 18 in Household</td>
<td>Drop</td>
<td>Possible identifier. Use C_NUMCHILDHH</td>
</tr>
<tr>
<td>R7_L19</td>
<td>Number Own Children Under 18 Living Inside Household</td>
<td>Drop</td>
<td>Possible identifier. Use C_NUMOWNCHILDHH_PUB</td>
</tr>
<tr>
<td>R7_L20</td>
<td>Own Children Under 18 Living Outside Household</td>
<td>Drop</td>
<td>Possible identifier. Use C_NUMOWNCHILDOHH_PUB</td>
</tr>
<tr>
<td>R7_L21</td>
<td>Number Own Children Under 18 Not Living in Household</td>
<td>Drop</td>
<td>Possible identifier. Use C_NUMOWNCHILDOHH_PUB</td>
</tr>
<tr>
<td>R7_L22</td>
<td>Children Living in Household Under Age Six</td>
<td>Drop</td>
<td>Small cell sizes; identifying</td>
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<tr>
<td>R7_LP23</td>
<td>Ever Served on Active Duty</td>
<td>Replace</td>
<td>Possible identifier. Use LP23_PUB.</td>
</tr>
<tr>
<td>R7_L23Aamt</td>
<td>Total 2018 Household income before taxes</td>
<td>Drop</td>
<td>Summarized in construct C_HHINC2018</td>
</tr>
<tr>
<td>R7_L23Ahop</td>
<td>How Often Paid in 2018</td>
<td>Drop</td>
<td>Summarized in construct C_HHINC2018</td>
</tr>
<tr>
<td>R7_L23B</td>
<td>How Many Days/Weeks/Months Rec'd Income in 2018</td>
<td>Drop</td>
<td>Summarized in construct C_HHINC2018</td>
</tr>
<tr>
<td>R7_L24</td>
<td>Household income in 2018</td>
<td>Replace</td>
<td>Possible identifier. Use C_HHINC2018_PUB</td>
</tr>
<tr>
<td>R7_C_HhInc2018</td>
<td>2018 Household Income</td>
<td>Replace</td>
<td>Possible identifier. Use C_HHINC2018_PUB</td>
</tr>
<tr>
<td>R7_C_Cohab</td>
<td>Cohabitation Status</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>R7_C_COHAB_IFLAG</td>
<td>Cohabitation Status, Imputation flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_C_RACE_I</td>
<td>Race, Imputed</td>
<td>Replace</td>
<td>Possible identifier. Use C_RACE_i_PUB.</td>
</tr>
<tr>
<td>R7_C_RACE_IFLAG</td>
<td>Race, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_C_BMI</td>
<td>Body Mass Index</td>
<td>Drop</td>
<td>Possible identifier. Use C_BMI_CAT_I</td>
</tr>
<tr>
<td>R7_C_BMI_cat</td>
<td>Body Mass Index Categories</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>R7_C_BMI_CAT_IFLAG</td>
<td>Body Mass Index Categories, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
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</table>
### Table H.1 (continued)

<table>
<thead>
<tr>
<th>Variable</th>
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<th>Reasons for Drop/Replace</th>
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<tr>
<td>R7_C_Hhsized</td>
<td>Household size</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>R7_C_HHSIZE_I</td>
<td>Household Size, Imputed</td>
<td>Replace</td>
<td>Possible identifier. Use C_HHSIZE_PUB.</td>
</tr>
<tr>
<td>R7_C_HHSIZE_IFLAG</td>
<td>Household Size, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_C_NumChildhh</td>
<td>Number Children in Household</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>R7_C_NUMCHILDHH_I</td>
<td>Number Children in Household, Imputed</td>
<td>Replace</td>
<td>Possible identifier. Use C.NumChildHH_PUB.</td>
</tr>
<tr>
<td>R7_C_NUMCHILDHH_IFLAG</td>
<td>Number Children in Household, Imputation Flag</td>
<td>Drop</td>
<td>IFLAG - No analytic value</td>
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<tr>
<td>R7_C_NumChildohh</td>
<td>Number Children Outside Household</td>
<td>Drop</td>
<td>Possible identifier. Use C_NUMCHILCOOH_PUB</td>
</tr>
<tr>
<td>R7_C_Numchildren</td>
<td>Number Children</td>
<td>Drop</td>
<td>Little analytic value</td>
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<tr>
<td>R7_c_numchildhh_pov</td>
<td>Number of Children for Poverty Level</td>
<td>Drop</td>
<td>Little analytical value; only used for poverty level calculation</td>
</tr>
<tr>
<td>R7_C_FedPovertyLevel</td>
<td>2018 Federal Poverty Level</td>
<td>Drop</td>
<td>Imputed version on file</td>
</tr>
<tr>
<td>R7_C_FEDPOVERTYLEVEL_IFLAG</td>
<td>2018 Federal Poverty Level, Imputation Flag</td>
<td>Drop</td>
<td>Little analytic value</td>
</tr>
<tr>
<td>R7_M2a_Rlshp</td>
<td>How Proxy Related to SP</td>
<td>Drop</td>
<td>Survey administration variable</td>
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<tr>
<td>R7_M10a</td>
<td>Level of Survey Satisfaction</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_M11</td>
<td>Respondent or Proxy Interviewed</td>
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<tr>
<td>R7_M11a</td>
<td>Method for Conducting Interview</td>
<td>Drop</td>
<td>Survey administration variable</td>
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<tr>
<td>R7_M12</td>
<td>Respondent Assisted During Interview</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_M13</td>
<td>How Assistant/Proxy Related to SP</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_M14</td>
<td>Why Assist/Proxy Needed</td>
<td>Drop</td>
<td>Survey administration variable</td>
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<tr>
<td>R7_M15</td>
<td>Respondent Intellectually Capable of Responding</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_M16</td>
<td>Respondent’s Answers Accurate</td>
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<td>Survey administration variable</td>
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<tr>
<td>R7_M17</td>
<td>Respondent Understood Questions</td>
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<tr>
<td>R7_M18</td>
<td>Interview tiring For Respondent</td>
<td>Drop</td>
<td>Survey administration variable</td>
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<tr>
<td>R7_M19</td>
<td>Respondent Had Diff Hearing</td>
<td>Drop</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_M20</td>
<td>Respondents Hearing Diff Affected Interview</td>
<td>Drop</td>
<td>Survey administration variable</td>
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<td>Variable</td>
<td>Label</td>
<td>File Status</td>
<td>Reasons for Drop/Replace</td>
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</tr>
<tr>
<td>R7_N_BFW_RECENT</td>
<td>Benefits forgone for work during most recent spell of eligibility as of interview date (From SSA administrative records)</td>
<td>Drop</td>
<td>Administration variable</td>
</tr>
<tr>
<td>R7_N_BIC_ATINT</td>
<td>Beneficiary identification code at interview (From SSA administrative records)</td>
<td>Drop</td>
<td>Administration variable</td>
</tr>
<tr>
<td>R7_N_BIC_ATSAMP</td>
<td>Beneficiary identification code at sampling (From SSA administrative records)</td>
<td>Drop</td>
<td>Administration variable</td>
</tr>
<tr>
<td>R7_N_DEPEN_ATINT</td>
<td>SSDI dependent benefits due at interview (From SSA administrative records)</td>
<td>Drop</td>
<td>See construct</td>
</tr>
<tr>
<td>R7_N_DEPENLASTMNTH</td>
<td>SSDI dependent benefit payment amount last month (From SSA administrative records)</td>
<td>Drop</td>
<td>See construct, R7_N_DEPENLASTMNTH_PUB</td>
</tr>
<tr>
<td>R7_N_MFT</td>
<td>Master file type (From SSA administrative records)</td>
<td>DROP</td>
<td>Administration variable</td>
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<tr>
<td>R7_N_MTHSEARLENT</td>
<td>Months Since Earliest SSI or SSDI Entitlement Date (From SSA administrative records)</td>
<td>DROP</td>
<td>See construct</td>
</tr>
<tr>
<td>R7_N_MTHSRECENT</td>
<td>Months since start of most recent SSI and/or SSDI spell of eligibility (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_ONSETDATE_SSDI</td>
<td>SSDI onset date (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_ONSETDATE_SSI</td>
<td>SSI onset date (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_PIAATINT</td>
<td>Primary Insurance Amount (PIA) (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_SSDI_ATINT</td>
<td>SSDI benefit due at interview (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_SSDILASTMNTH</td>
<td>SSDI payment last month (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
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### Table H.1 (continued)

<table>
<thead>
<tr>
<th>Variable</th>
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<th>Reasons for Drop/Replace</th>
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<tr>
<td>R7_N_SSI_ATINT</td>
<td>SSI benefit due at interview (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
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<tr>
<td>R7_N_SSILASTMNTH</td>
<td>State and federal SSI payment last month (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_STW_MNTHS_RECENT</td>
<td>STW months during most recent spell of eligibility (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TOC_ATINT</td>
<td>Type of claim at interview (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TOC_ATSAMP</td>
<td>Type of claim at sampling (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TOTSSBEN_ATINT</td>
<td>Total SSI and SSDI benefits due at interview (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TOTSSBENLASTMNTH</td>
<td>Total SSI and SSDI payment last month (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TTWMNTHS_ASSGN</td>
<td>Number of months since TTW ticket first assigned as of interview date (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TTWPART_ATINT</td>
<td>Ticket to Work participant at interview (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TTPMT_TYPE</td>
<td>Ticket to Work payment type (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
<tr>
<td>R7_N_TTWPMT_TYPE</td>
<td>Ticket to Work provider type (From SSA administrative records)</td>
<td>DROP</td>
<td>Survey administration variable</td>
</tr>
</tbody>
</table>
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Appendix I

Variables recoded for the public use file
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Table I.1. Variables recoded for the public use file

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description of Recode</th>
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</thead>
<tbody>
<tr>
<td>R7_caseid_pub</td>
<td>Caseid assigned that cannot be linked across survey rounds.</td>
</tr>
<tr>
<td>R7_C_INTAGE_PUB</td>
<td>Grouped by ranges for PUF (18-25, 26-40, 41-55, and 56 and older). Longitudinal cases use the Round 6 value for the PUF.</td>
</tr>
<tr>
<td>R7_A_PSU_Pub</td>
<td>Values scrambled for PUF. Frequency not displayed for this variable.</td>
</tr>
<tr>
<td>R7_C_MainCurJobSOC_PUB</td>
<td>Grouped as: Service Occupations; Sales, Office, and Administrative Occupations; and Production and Transportation. &quot;Other&quot; category created for sheltered workshop, management, business, computer/math, architecture/engineering, scientist, social service, legal, education, art/entertainment, healthcare, protective service, farming, construction, repair, and military professions.</td>
</tr>
<tr>
<td>R7_C_MainCurJobNAICS_PUB</td>
<td>Recoded to two digits: Manufacturing, Construction, Utilities, Mining, and Agriculture, Retail and Wholesale Trade, Administration, Management, Professional, Real Estate, Information, Finance, and Education, Health Care and Social Assistance. &quot;Other&quot; category created for transportation and warehousing, arts/entertainment, accommodation and food, other services, and public administration.</td>
</tr>
<tr>
<td>R7_C_MnthsMainCurJob_PUB</td>
<td>Months employed at current main job. Based on year of interview, C4mth, and C4yr. Computed for each job listed. Top coded at 30 and bottom coded at 3 for the PUF.</td>
</tr>
<tr>
<td>R7_C_TotCurMnthPay_i_PUB</td>
<td>Total current monthly pay from all jobs combined. Summary of currently monthly pay variables. Top coded to the mean of top-coded values for the PUF.</td>
</tr>
<tr>
<td>R7_C_TotCurWkHrs_i_PUB</td>
<td>Total number of hours work per week on all current jobs combined. Based on summary of C8 for all jobs listed. Top coded at 40 and bottom coded at 8 for the PUF.</td>
</tr>
<tr>
<td>R7_C_TotCurHrMnth_i_PUB</td>
<td>Total number of hours worked per month on all jobs combined. Based on summary of C8 for all jobs listed. Top coded at 174 and bottom coded at 35 for the PUF.</td>
</tr>
<tr>
<td>R7_C_Main6MoJobSOC_PUB</td>
<td>Grouped as: Service Occupations; Sales, Office, and Administrative Occupations; and Production and Transportation. &quot;Other&quot; category created for sheltered workshop, management, business, computer/math, architecture/engineering, scientist, social service, legal, education, art/entertainment, healthcare, protective service, farming, construction, repair, and military professions.</td>
</tr>
<tr>
<td>R7_C_Main6MoJobNAICS_PUB</td>
<td>Recoded to two digits: Manufacturing, Construction, Utilities, Mining, and Agriculture, Retail and Wholesale Trade, Administration, Management, Professional, Real Estate, Information, Finance, and Education, Health Care and Social Assistance. &quot;Other&quot; category created for transportation and warehousing, arts/entertainment, accommodation and food, other services, and public administration.</td>
</tr>
<tr>
<td>R7_C_Tot6MoMnthPay_PUB</td>
<td>Total monthly pay from all jobs in last 6 months combined. Summary of currently monthly pay variables. Bottom coded to 913.5 and top coded to the mean of top coded values.</td>
</tr>
<tr>
<td>R7_C_Main6MoJobRepSSA_PUB</td>
<td>Top coded at 12 for the PUF.</td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description of Recode</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>R7_d6yr_m_PUB</td>
<td>Main job held in 2018 computed by determining which job had most hours worked in 2018. Bottom coded at 2004 for the PUF.</td>
</tr>
<tr>
<td>R7_d8yr_m_PUB</td>
<td>Main job held in 2018 computed by determining which job had most hours worked in 2018.</td>
</tr>
<tr>
<td>R7_D16_m_PUB</td>
<td>Main job held in 2018 computed by determining which job had most hours worked in 2018. Top coded at 40 and bottom coded at 8 for the PUF.</td>
</tr>
<tr>
<td>R7_D17_m_PUB</td>
<td>Main job held in 2018 computed by determining which job had most hours worked in 2018. Bottom coded at 24 for the PUF</td>
</tr>
<tr>
<td>R7_C_MainJob2018SOC_PUB</td>
<td>Grouped as: Service Occupations; Sales, Office, and Administrative Occupations; and Production and Transportation. &quot;Other&quot; category created for sheltered workshop, management, business, computer/math, architecture/engineering, scientist, social service, legal, education, art/entertainment, healthcare, protective service, farming, construction, repair, and military professions.</td>
</tr>
<tr>
<td>R7_C_MainJob2018NAICS_PUB</td>
<td>Recoded to two digits: Manufacturing, Construction, Utilities, Mining, and Agriculture, Retail and Wholesale Trade, Administration, Management, Professional, Real Estate, Information, Finance, and Education, Health Care and Social Assistance. &quot;Other&quot; category created for transportation and warehousing, arts/entertainment, accommodation and food, other services, and public administration.</td>
</tr>
<tr>
<td>R7_C_MainJobMnthPay2018_PUB</td>
<td>Monthly pay from main 2018 job. Summary of currently monthly pay variables. Bottom coded to 117 and top coded to the mean of top coded values.</td>
</tr>
<tr>
<td>R7_C_TOT2018PAY_PUB</td>
<td>Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_C_TotHrs2018_PUB</td>
<td>Top coded at 2,080 and bottom coded at 520 for the PUF.</td>
</tr>
<tr>
<td>R7_C_UsWkHr2018_PUB</td>
<td>Top coded at 40 for the PUF.</td>
</tr>
<tr>
<td>R7_J11_10_PUB</td>
<td>Grouped J11_3, 4, 5, 6 with 10 (other) for PUF</td>
</tr>
<tr>
<td>R7_C_TotGovCashBen_PUB</td>
<td>Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_C_LSTMNTHPAY_PUB</td>
<td>Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_C_TotNonCashBen_PUB</td>
<td>Total non-cash benefits received. Summary of C_AmtFoodStamp and C_AmtOthGov. Top coded at 1,000 for the PUF.</td>
</tr>
<tr>
<td>R7_L1_I_PUB</td>
<td>Longitudinal cases use the Round 6 value for the PUF.</td>
</tr>
<tr>
<td>R7_L3_i_PUB</td>
<td>Grouped as: 1=Did not complete HS or GED; 2=HS or equivalent; 3=Some college (1-3 years); 4=4-year degree or higher; 5=Other for PUF.</td>
</tr>
<tr>
<td>R7_L4_PUB</td>
<td>Grouped as: 1=Did not complete HS or GED; 2=HS or equivalent; 3=Some college (1-3 years); 4=4-year degree or higher; 5=Other for PUF.</td>
</tr>
<tr>
<td>R7_L5_PUB</td>
<td>Grouped as: 1=Did not complete HS or GED; 2=HS or equivalent; 3=Some college (1-3 years); 4=4-year degree or higher; 5=Other for PUF.</td>
</tr>
<tr>
<td>R7_L8_I_PUB</td>
<td>Grouped as: 1 = Married; 2 = Widowed/Divorced/Separated; 3 = Never married for PUF.</td>
</tr>
<tr>
<td>R7_L11_I_PUB</td>
<td>Grouped as: 2 = You live with parents/spouse/partner, 6 = Other for PUF.</td>
</tr>
<tr>
<td>R7_LP23_PUB</td>
<td>Masked with data swapping. Longitudinal cases use the Round 6 value for the PUF.</td>
</tr>
<tr>
<td>R7_C_HHINC2018_PUB</td>
<td>Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description of Recode</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>R7_C_race_I_PUB</td>
<td>Grouped as 3 = Black, 5 = White, 7 = Alaskan Native or American Indian, Asian, Native Hawaiian or Pacific Islander, Native Hawaiian or Pacific Islander and other non-black; Black and White or Black and other race for PUF. Longitudinal cases use the Round 6 value for the PUF.</td>
</tr>
<tr>
<td>R7_C_HHSize_PUB</td>
<td>Top coded at 6 for the PUF.</td>
</tr>
<tr>
<td>R7_C_NumChildHH_PUB</td>
<td>Top coded at 1 for the PUF.</td>
</tr>
<tr>
<td>R7_C_NUMOWNCHILD_PUB</td>
<td>Top coded at 3 for the PUF.</td>
</tr>
<tr>
<td>R7_C_NUMOWNCHILDHH_PUB</td>
<td>Top coded at 1 for the PUF.</td>
</tr>
<tr>
<td>R7_C_NUMNONOWNCHILDHH_PUB</td>
<td>Top coded at 3 for the PUF.</td>
</tr>
<tr>
<td>R7_C_NUMADULTHH_PUB</td>
<td>Top coded at 2 for the PUF.</td>
</tr>
<tr>
<td>R7_INCSOURCE1_PUB</td>
<td>Indicates sources received income from last month. K4, K6, and K14 grouped for PUF.</td>
</tr>
<tr>
<td>R7_INCSOURCE2_PUB</td>
<td>Indicates sources received income from last month. K4, K6, and K14 grouped for PUF.</td>
</tr>
<tr>
<td>R7_INCSOURCE3_PUB</td>
<td>Indicates sources received income from last month. K4, K6, and K14 grouped for PUF.</td>
</tr>
<tr>
<td>R7_INCSOURCE4_PUB</td>
<td>Indicates sources received income from last month. K4, K6, and K14 grouped for PUF.</td>
</tr>
<tr>
<td>R7_INCSOURCE5_PUB</td>
<td>Indicates sources received income from last month. K4, K6, and K14 grouped for PUF.</td>
</tr>
<tr>
<td>R7_INCSOURCE6_PUB</td>
<td>Indicates sources received income from last month. K4, K6, and K14 grouped for PUF.</td>
</tr>
<tr>
<td>R7_INCSOURCE7_PUB</td>
<td>Indicates sources received income from last month. K4, K6, and K14 grouped for PUF.</td>
</tr>
<tr>
<td>R7_N_DEPENLASTMNTH_PUB</td>
<td>Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_N_MTHSEARLENT_PUB</td>
<td>From SSA administrative records. Bottom coded at 15 and top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_N_MTHSRECENT_PUB</td>
<td>From SSA administrative records. Bottom coded at 14 and top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_N_PIAATINT_PUB</td>
<td>From SSA administrative records. Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_N_SSDLastMnth_PUB</td>
<td>From SSA administrative records. Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_N_SSLastMnth_PUB</td>
<td>From SSA administrative records. Top coded to the mean of top coded values for the PUF.</td>
</tr>
<tr>
<td>R7_N_TotSSbenLastMnth_PUB</td>
<td>From SSA administrative records. Top coded to the mean of top coded values for the PUF.</td>
</tr>
</tbody>
</table>
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Appendix J

Parameter estimates and standard errors for nonresponse models
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### Table J.1. Variables in the location logistic propensity model in the RBS

<table>
<thead>
<tr>
<th>Variables in the location model, Representative Beneficiary Sample</th>
<th>Parameter estimate(^a)</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main effects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of phone numbers on file (PHONE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One</td>
<td>0.692</td>
<td>0.471</td>
</tr>
<tr>
<td>Two</td>
<td>0.477</td>
<td>0.494</td>
</tr>
<tr>
<td>Three</td>
<td>1.325**</td>
<td>0.502</td>
</tr>
<tr>
<td>Four</td>
<td>1.123*</td>
<td>0.527</td>
</tr>
<tr>
<td>Five or more, or zero</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary's age category (AGECAT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age in range 18 to 29 years</td>
<td>-0.416</td>
<td>0.275</td>
</tr>
<tr>
<td>Age in range 30 to 39 years</td>
<td>-0.308</td>
<td>0.240</td>
</tr>
<tr>
<td>Age in range 40 to FRA</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. Census division (DIVISION)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>-0.619*</td>
<td>0.265</td>
</tr>
<tr>
<td>Not Middle Atlantic</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s race (RACE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>-1.050**</td>
<td>0.320</td>
</tr>
<tr>
<td>Black</td>
<td>-0.511</td>
<td>0.375</td>
</tr>
<tr>
<td>Not White or Black</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Identify of payee relative to beneficiary (REPREPAYEE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family</td>
<td>0.526</td>
<td>0.353</td>
</tr>
<tr>
<td>Not family</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary title (SSI_SSDI) (ONLY SSI)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSI only</td>
<td>-0.720*</td>
<td>0.358</td>
</tr>
<tr>
<td>Other</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Retirement destination county (CNTYRET)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The number of residents in county age 60 and older grew by 15 percent or more between the 2000 and 2010 censuses due to net migration</td>
<td>0.736*</td>
<td>0.316</td>
</tr>
<tr>
<td>County that doesn’t have this attribute</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Two-factor interactions(^b)</strong></td>
<td>(none)</td>
<td></td>
</tr>
</tbody>
</table>

\(^a\) It is standard statistical practice to include main effects in models when they are a component of a significant interaction effect. Parameter estimates with a cross (†) represent such main effects that were included in the model for this reason. One star (*) and two stars (**) represent significance at the 5% and 1% levels respectively.

\(^b\) All combinations for the listed interactions that are not shown are part of the reference cells.

FRA = full retirement age
### Table J.2. Variables in the cooperation logistic propensity model in the RBS

<table>
<thead>
<tr>
<th>Main Effects</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of addresses on file (MOVE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One</td>
<td>0.490*</td>
<td>0.206</td>
</tr>
<tr>
<td>Two</td>
<td>0.333</td>
<td>0.223</td>
</tr>
<tr>
<td>Three</td>
<td>0.153</td>
<td>0.215</td>
</tr>
<tr>
<td>Four</td>
<td>0.427</td>
<td>0.258</td>
</tr>
<tr>
<td>Five or more, or zero</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>

| **Ethnicity (HISPANIC)** | | |
| Hispanic | 0.601* | 0.230 |
| Not Hispanic | Ref. cell | | |

| **Beneficiary’s age category (AGECAT)** | | |
| Age in range 18 to 29 years | -0.106 | 0.126 |
| Age in range 30 to 39 years | -0.134 | 0.127 |
| Age in range 40 to 49 years | -0.037 | 0.128 |
| Age in range 50 to FRA | Ref. cell | | |

| **Gender (GENDER)** | | |
| Female | 0.158 | 0.115 |
| Male | Ref. cell | | |

| **County with high levels of children living in poverty (CNTYCPOV)** | | |
| Yes | 0.806** | 0.262 |
| No | Ref. cell | | |

| **County with high levels of persistent poverty (CNTYPPOV)** | | |
| Yes | -0.546 | 0.282 |
| No | Ref. cell | | |

| **County with recreation-based economy (CNTYREC)** | | |
| Yes | 0.282 | 0.169 |
| No | Ref. cell | | |

| **Metropolitan status of county of residence of beneficiary (METRO)** | | |
| Beneficiary resides in nonmetropolitan area | 0.511** | 0.143 |
| Beneficiary resides in metropolitan statistical area (MSA) of less than 250,000 | 0.235 | 0.193 |
| Beneficiary resides in metropolitan statistical area (MSA) of 250,000 or more | Ref. cell | | |

| **Earnings category (EARNCAT)** | | |
| Monthly DCF earnings above SGA<sup>b</sup> for three consecutive months in 2017 or 2018 | -0.489 | 0.313 |
| Gross annual DCF earnings above three times SGA in 2017 or 2018 | 0.304 | 0.294 |
| Gross annual DCF earnings above $0 in 2017 or 2018 | 0.218 | 0.242 |
| No annual DCF earnings in 2017 or 2018 | Ref. cell | | |
### Table J.2 (continued)

<table>
<thead>
<tr>
<th>Main Effects</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Two-Factor Interactions</strong>&lt;sup&gt;c&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNTYCPOV * AGECAT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>County with high levels of child in poverty * Age in range 18 to 29</td>
<td>-0.846**</td>
<td>0.250</td>
</tr>
<tr>
<td>County with high levels of children in poverty * Age in range 30 to 39</td>
<td>-0.206</td>
<td>0.265</td>
</tr>
<tr>
<td>County with high levels of children in poverty * Age in range 40 to 49</td>
<td>-1.016**</td>
<td>0.282</td>
</tr>
<tr>
<td>Beneficiary missing one or both of these attributes</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> It is standard statistical practice to include main effects in models when they are a component of a significant interaction effect. Parameter estimates with a cross (†) represent such main effects that were included in the model for this reason. One star (*) and two stars (**) represent significance at the 5% and 1% levels respectively.

<sup>b</sup> Non-blind substantial gainful activity, or $1,170 in 2017, $1,180 in 2018, and $1,220 in 2019.

<sup>c</sup> All combinations for the listed interactions that are not shown are part of the reference cells.

FRA = full retirement age
## Table J.3. Variables in the location logistic propensity model in the cross-sectional SWS

<table>
<thead>
<tr>
<th>Variables in the location model, Successful Worker Sample</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main effects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Extract (EXTRACT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age in range 50 to FRA</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>Recipient of SSI (concurrent or SSI only)</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>County with government-dependent economy (CNTYGOV)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>County that doesn’t have this attribute</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Two-factor interactions&lt;sup&gt;b&lt;/sup&gt;</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(none)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> It is standard statistical practice to include main effects in models when they are a component of a significant interaction effect. Parameter estimates with a cross (†) represent such main effects that were included in the model for this reason. One star (*) and two stars (**) represent significance at the 5% and 1% levels respectively.

<sup>b</sup> All combinations for the listed interactions that are not shown are part of the reference cells.

FRA = full retirement age
# Table J.4. Variables in the location logistic propensity model in the cross-sectional SWS

<table>
<thead>
<tr>
<th>Variables in the location model, Successful Worker Sample</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Extract (EXTRACT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First extract</td>
<td>0.612**</td>
<td>0.193</td>
</tr>
<tr>
<td>Second extract</td>
<td>0.351</td>
<td>0.197</td>
</tr>
<tr>
<td>Third extract</td>
<td>-0.235</td>
<td>0.206</td>
</tr>
<tr>
<td>Fourth extract</td>
<td>0.000</td>
<td>0.182</td>
</tr>
<tr>
<td>Fifth extract</td>
<td>-0.362*</td>
<td>0.174</td>
</tr>
<tr>
<td>Sixth extract</td>
<td>-0.226</td>
<td>0.181</td>
</tr>
<tr>
<td>Seventh extract</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Number of phone numbers on file (PHONE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One</td>
<td>-0.663**</td>
<td>0.164</td>
</tr>
<tr>
<td>Two</td>
<td>-0.348*</td>
<td>0.156</td>
</tr>
<tr>
<td>Three</td>
<td>0.097</td>
<td>0.151</td>
</tr>
<tr>
<td>Four</td>
<td>-0.040</td>
<td>0.148</td>
</tr>
<tr>
<td>Five or more, or zero</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Number of addresses on file (MOVE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One</td>
<td>-0.276</td>
<td>0.150</td>
</tr>
<tr>
<td>Two</td>
<td>-0.021</td>
<td>0.131</td>
</tr>
<tr>
<td>Three or more, or zero</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s age category (AGECAT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age in range 18 to 29 years</td>
<td>-0.282*</td>
<td>0.116</td>
</tr>
<tr>
<td>Age in range 30 to FRA</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s living situation (LIVING)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary lives alone</td>
<td>0.342</td>
<td>0.245</td>
</tr>
<tr>
<td>Beneficiary lives with family, others, in an institution, or situation unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>County with government-dependent economy (CNTYGOV)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>0.431**</td>
<td>0.163</td>
</tr>
<tr>
<td>No</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary title (SSI_SSDI)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI only recipient</td>
<td>1.027**</td>
<td>0.366</td>
</tr>
<tr>
<td>Recipient of SSI (concurrent or SSI only)</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>County with nonspecialized-dependent economy (CNTYNONSP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>County with nonspecialized-dependent economy</td>
<td>0.312**</td>
<td>0.119</td>
</tr>
<tr>
<td>County that doesn’t have this attribute</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Earnings category (EARNCAT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monthly DCF earnings above SGA&lt;sup&gt;b&lt;/sup&gt; for three consecutive months in 2017 or 2018</td>
<td>-0.069</td>
<td>0.217</td>
</tr>
</tbody>
</table>
### Table J.4 (continued)

<table>
<thead>
<tr>
<th>Main effects</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross annual DCF earnings above three times SGA in 2017 or 2018</td>
<td>0.200</td>
<td>0.281</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $0 in 2017 or 2018</td>
<td>-0.414</td>
<td>0.319</td>
</tr>
<tr>
<td>No annual DCF earnings in 2017 or 2018</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>Indicator whether beneficiary and applicant for benefits are in same zip code (PDZIPSAME)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applicant and beneficiary live in same zip code</td>
<td>1.188**</td>
<td>0.347</td>
</tr>
<tr>
<td>Applicant and beneficiary live in different zip code</td>
<td>1.134**</td>
<td>0.373</td>
</tr>
<tr>
<td>Unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>Beneficiary's race</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic Black</td>
<td>0.486**</td>
<td>0.120</td>
</tr>
<tr>
<td>Not non-Hispanic black, or race unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>Metropolitan status of county of residence of beneficiary (METRO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary resides in metropolitan statistical area (MSA) of less than 250,000</td>
<td>-0.232</td>
<td>0.134</td>
</tr>
<tr>
<td>Beneficiary resides in nonmetropolitan area adjacent to large metropolitan area</td>
<td>0.449</td>
<td>0.261</td>
</tr>
<tr>
<td>Beneficiary resides in nonmetropolitan area adjacent to small, medium, or no metropolitan area</td>
<td>0.416</td>
<td>0.251</td>
</tr>
<tr>
<td>Beneficiary resides in metropolitan statistical area (MSA) of more than 250,000</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>Metropolitan status of county of residence of beneficiary (METRO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary resides in nonmetropolitan area not adjacent to metropolitan area</td>
<td>-0.232</td>
<td>0.134</td>
</tr>
<tr>
<td>Beneficiary resides in nonmetropolitan area adjacent to large metropolitan area</td>
<td>0.449</td>
<td>0.261</td>
</tr>
<tr>
<td>Beneficiary resides in nonmetropolitan area adjacent to medium or small metropolitan area, or not adjacent to a metropolitan area</td>
<td>0.416</td>
<td>0.251</td>
</tr>
<tr>
<td>Beneficiary resides in metropolitan statistical area (MSA) of more than 250,000</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>Two-factor interactions&lt;sup&gt;c&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIVING * MOVE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not living alone * One address</td>
<td>-0.510*</td>
<td>0.229</td>
</tr>
<tr>
<td>Not living alone * Two addresses</td>
<td>0.424</td>
<td>0.228</td>
</tr>
<tr>
<td>Successful worker missing one or both of these attributes</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>RACE * MOVE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not non-Hispanic black * One address</td>
<td>0.837**</td>
<td>0.240</td>
</tr>
<tr>
<td>Not non-Hispanic black * Two addresses</td>
<td>0.515</td>
<td>0.264</td>
</tr>
<tr>
<td>Successful worker missing one or both of these attributes</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> It is standard statistical practice to include main effects in models when they are a component of a significant interaction effect. Parameter estimates with a cross (*) represent such main effects that were included in the model for this reason. One star (*) and two stars (**) represent significance at the 5% and 1% levels respectively.

<sup>b</sup> Non-blind substantial gainful activity, or $1,170 in 2017, $1,180 in 2018, and $1,220 in 2019.

<sup>c</sup> All combinations for the listed interactions that are not shown are part of the reference cells.

FRA = full retirement age
### Table J.5. Variables in the cooperation logistic propensity model in the cross-sectional SWS

<table>
<thead>
<tr>
<th>Main Effects</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Variables in the cooperation model, Successful Worker Sample</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Extract (EXTRACT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First extract</td>
<td>0.790**</td>
<td>0.194</td>
</tr>
<tr>
<td>Second extract</td>
<td>0.483**</td>
<td>0.130</td>
</tr>
<tr>
<td>Third extract</td>
<td>0.151</td>
<td>0.131</td>
</tr>
<tr>
<td>Fourth extract</td>
<td>0.111</td>
<td>0.136</td>
</tr>
<tr>
<td>Fifth extract</td>
<td>-0.056</td>
<td>0.147</td>
</tr>
<tr>
<td>Sixth extract</td>
<td>0.135</td>
<td>0.129</td>
</tr>
<tr>
<td>Seventh extract</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s age category (AGECAT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age in range 18 to 29 years</td>
<td>-0.231</td>
<td>0.168</td>
</tr>
<tr>
<td>Age in range 30 to 39 years</td>
<td>-0.368**</td>
<td>0.074</td>
</tr>
<tr>
<td>Age in range 40 to 49 years</td>
<td>-0.225*</td>
<td>0.091</td>
</tr>
<tr>
<td>Age in range 50 to FRA</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s disability category (DISABILITY)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deafness</td>
<td>-0.475*</td>
<td>0.219</td>
</tr>
<tr>
<td>Other disability excluding deafness, or disability unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Identity of payee relative to beneficiary (REPREPAYEE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary received payments himself/herself</td>
<td>0.222*</td>
<td>0.111</td>
</tr>
<tr>
<td>Beneficiary did not receive payments himself/herself, or unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Indicator whether beneficiary and applicant for benefits are in same zip code (PDZIPSAME)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applicant and beneficiary live in same zip code</td>
<td>0.202**</td>
<td>0.066</td>
</tr>
<tr>
<td>Applicant and beneficiary live in different zip code, or no information</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>DCF earnings category in 2017-2018 (EARNCAT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross annual DCF earnings above SGA in 2017 or 2018</td>
<td>0.177</td>
<td>0.175</td>
</tr>
<tr>
<td>Gross annual DCF earnings above $0 in 2017 or 2018</td>
<td>0.463*</td>
<td>0.226</td>
</tr>
<tr>
<td>No annual DCF earnings in 2017 or 2018</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>ETHNICITY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non Hispanic</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>-0.375</td>
<td>0.140</td>
</tr>
<tr>
<td><strong>County with high levels of poverty (CNTYHPOV)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>County with high levels of poverty</td>
<td>0.267</td>
<td>0.136</td>
</tr>
<tr>
<td>County that doesn’t have this attribute</td>
<td>Ref. cell</td>
<td></td>
</tr>
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</table>
### Table J.5 (continued)

<table>
<thead>
<tr>
<th>Main Effects</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-Factor Interactions&lt;sup&gt;c&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGECAT * EXTRACT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age in range 30 to FRA not in EXTRACT1</td>
<td>0.386&lt;sup&gt;*&lt;/sup&gt;</td>
<td>0.188</td>
</tr>
<tr>
<td>Beneficiary missing one or both of these attributes</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> It is standard statistical practice to include main effects in models when they are a component of a significant interaction effect. Parameter estimates with a cross (†) represent such main effects that were included in the model for this reason. One star (*) and two stars (**) represent significance at the 5% and 1% levels respectively.

<sup>b</sup> Non-blind substantial gainful activity, or $1,170 in 2017, $1,180 in 2018, and $1,220 in 2019.

<sup>c</sup> All combinations for the listed interactions that are not shown are part of the reference cells.

FRA = full retirement age
### Table J.6. Variables in the location logistic propensity model in the longitudinal SWS, in Round 7 beneficiary frame

<table>
<thead>
<tr>
<th>Main effects</th>
<th>Parameter estimate</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Variables in the location model, Successful Worker Sample</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Extract (EXTRACT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fifth extract</td>
<td>0.381</td>
<td>0.220</td>
</tr>
<tr>
<td>Sixth extract</td>
<td>0.538</td>
<td>0.282</td>
</tr>
<tr>
<td>First through fourth or seventh extract</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Number of phone numbers on file (PHONE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zero</td>
<td>1.056**</td>
<td>0.384</td>
</tr>
<tr>
<td>One</td>
<td>0.373</td>
<td>0.164</td>
</tr>
<tr>
<td>Two</td>
<td>0.163</td>
<td>0.156</td>
</tr>
<tr>
<td>Three</td>
<td>-0.192</td>
<td>0.151</td>
</tr>
<tr>
<td>Four</td>
<td>-0.008</td>
<td>0.148</td>
</tr>
<tr>
<td>Five or more</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. Census region (REGION)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>-0.428*</td>
<td>0.186</td>
</tr>
<tr>
<td>West</td>
<td>-0.717**</td>
<td>0.174</td>
</tr>
<tr>
<td>South</td>
<td>-0.479*</td>
<td>0.227</td>
</tr>
<tr>
<td>Northeast</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s age category (AGECAT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age in range 18 to 29 years</td>
<td>-0.952</td>
<td>0.095</td>
</tr>
<tr>
<td>Age in range 30 to 39 years</td>
<td>-1.079*</td>
<td>0.014</td>
</tr>
<tr>
<td>Age in range 40 to 49 years</td>
<td>-0.040</td>
<td>0.945</td>
</tr>
<tr>
<td>Age in range 50 to FRA</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s race (RACE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>0.409*</td>
<td>0.193</td>
</tr>
<tr>
<td>Not black, or unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Indicator whether beneficiary and applicant for benefits are in same zip code (PDZIPSAME)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applicant and beneficiary live in same zip code</td>
<td>-0.951**</td>
<td>0.344</td>
</tr>
<tr>
<td>Applicant and beneficiary live in different zip code, or no information</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary title (SSI_SSDI)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDI only recipient</td>
<td>1.068**</td>
<td>0.349</td>
</tr>
<tr>
<td>Recipient of SSI (concurrent or SSI only)</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>
### Table J.6 (continued)

<table>
<thead>
<tr>
<th>Main effects</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metropolitan status of county of residence of beneficiary (METRO)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary resides in metropolitan statistical area (MSA) of less than 250,000</td>
<td>-0.923**</td>
<td>0.250</td>
</tr>
<tr>
<td>Beneficiary resides in metropolitan statistical area (MSA) of 250,000-999,999</td>
<td>-0.261</td>
<td>0.183</td>
</tr>
<tr>
<td>Beneficiary resides in metropolitan statistical area (MSA) of 1 million or more, or in nonmetropolitan area</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>County with government-dependent economy (CNTYGOV)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>0.295</td>
<td>0.419</td>
</tr>
<tr>
<td>No</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Categorized percentage of housing units in county that do not use fuel (CNTYNOFUEL)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 0.4 percent</td>
<td>0.286</td>
<td>0.178</td>
</tr>
<tr>
<td>Between 0.4 and 0.6 percent</td>
<td>0.403</td>
<td>0.210</td>
</tr>
<tr>
<td>More than 0.6 percent</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Two-factor interactions&lt;sup&gt;b&lt;/sup&gt;</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNTYGOV * AGECAT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not a government-dependent economy * Age 18 to 29</td>
<td>0.876</td>
<td>0.611</td>
</tr>
<tr>
<td>Not a government-dependent economy * Age 30 to 39</td>
<td>0.999*</td>
<td>0.503</td>
</tr>
<tr>
<td>Not a government-dependent economy * Age 40 to 49</td>
<td>-0.125</td>
<td>0.632</td>
</tr>
<tr>
<td>Successful worker missing one or both of these attributes</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> It is standard statistical practice to include main effects in models when they are a component of a significant interaction effect. Parameter estimates with a cross (†) represent such main effects that were included in the model for this reason. One star (*) and two stars (**) represent significance at the 5% and 1% levels respectively.

<sup>b</sup> All combinations for the listed interactions that are not shown are part of the reference cells.

FRA = full retirement age
Table J.7. Variables in the cooperation logistic propensity model in the longitudinal SWS, in Round 7 frame

<table>
<thead>
<tr>
<th>Main Effects</th>
<th>Parameter estimate&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Variables in the cooperation model, Successful Worker Sample</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Extract (EXTRACT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First extract</td>
<td>0.270*</td>
<td>0.133</td>
</tr>
<tr>
<td>Third extract</td>
<td>0.673*</td>
<td>0.297</td>
</tr>
<tr>
<td>Seventh extract</td>
<td>0.438*</td>
<td>0.170</td>
</tr>
<tr>
<td>Second, fourth, fifth, or sixth extract</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Number of addresses on file (MOVE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One</td>
<td>0.544</td>
<td>0.342</td>
</tr>
<tr>
<td>Two</td>
<td>-0.131</td>
<td>0.357</td>
</tr>
<tr>
<td>Three</td>
<td>0.177</td>
<td>0.308</td>
</tr>
<tr>
<td>Four or more</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s age category (AGECAT)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age in range 18 to 29 years</td>
<td>-0.634**</td>
<td>0.129</td>
</tr>
<tr>
<td>Age in range 30 to 39 years</td>
<td>-0.584**</td>
<td>0.121</td>
</tr>
<tr>
<td>Age in range 40 to 49 years</td>
<td>-0.242*</td>
<td>0.122</td>
</tr>
<tr>
<td>Age in range 50 to FRA</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s race (RACE)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic Black</td>
<td>0.206</td>
<td>0.128</td>
</tr>
<tr>
<td>Not non-Hispanic black, or race unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary’s living situation (LIVING)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary lives with others</td>
<td>-0.503</td>
<td>0.295</td>
</tr>
<tr>
<td>Beneficiary lives with family, others, in an institution, or situation unknown</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Beneficiary title (SSI_SSDI)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recipient of SSDI and SSI</td>
<td>0.820*</td>
<td>0.360</td>
</tr>
<tr>
<td>Recipient of SSI (concurrent or SSI only)</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. Census region or division (REGION or DIVISION)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>0.368**</td>
<td>0.120</td>
</tr>
<tr>
<td>West</td>
<td>0.280*</td>
<td>0.126</td>
</tr>
<tr>
<td>South</td>
<td>0.235*</td>
<td>0.118</td>
</tr>
<tr>
<td>Northeast</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>Retirement destination county (CNTYRET)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The number of residents in county age 60 and older grew by 15 percent or more between the 2000 and 2010 censuses due to net migration</td>
<td>-0.430**</td>
<td>0.166</td>
</tr>
<tr>
<td>County does not have this attribute</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>
### Table J.6 (continued)

<table>
<thead>
<tr>
<th>Main Effects</th>
<th>Parameter estimate(^a)</th>
<th>Standard error</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>County that doesn’t have this attribute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SSI_SSDI * EXTRACT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extracts 1, 2, 4-7 * SSI only or SSDI only</td>
<td>-0.484</td>
<td>0.320</td>
</tr>
<tr>
<td>Beneficiary missing one or both of these attributes</td>
<td>Ref. cell</td>
<td></td>
</tr>
<tr>
<td><strong>SSI_SSDI * MOVE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One address * SSI only or SSDI only</td>
<td>-0.551</td>
<td>0.365</td>
</tr>
<tr>
<td>Two addresses * SSI only or SSDI only</td>
<td>-0.107</td>
<td>0.370</td>
</tr>
<tr>
<td>Three or more addresses * SSI only or SSDI only</td>
<td>-0.559</td>
<td>0.322</td>
</tr>
<tr>
<td>Beneficiary missing one or both of these attributes</td>
<td>Ref. cell</td>
<td></td>
</tr>
</tbody>
</table>

\(^a\) It is standard statistical practice to include main effects in models when they are a component of a significant interaction effect. Parameter estimates with a cross (†) represent such main effects that were included in the model for this reason. One star (*) and two stars (**) represent significance at the 5% and 1% levels respectively.

\(^b\) All combinations for the listed interactions that are not shown are part of the reference cells.

FRA = full retirement age
Appendix K

Sudaan parameters for national estimates from the NBS-general waves Round 7 sample
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SUDAAN EXAMPLE

PROC DESCRIPT data="SASdatasetname" filetype=sas design=wr;
nest A_STRATA A_PSU / missunit;
print nsum wsum mean semean deffmean / style=nchs
wsumfmt=f10.0 meanfmt=f8.4 semeanfmt=f8.4 deffmeanfmt=f8.4;
title "NBS National Estimates, SSI and SSDI beneficiaries";

SAS EXAMPLE

PROC SURVEYMEANS data="SASdatasetname";
strata A_STRATA;
cluster A_PSU;
weight "weight variable";
var "analysis variables";
title "NBS National Estimates, SSI and SSDI successful workers";

WEIGHT VARIABLES USED FOR CROSS-SECTIONAL ESTIMATES

<table>
<thead>
<tr>
<th>RBS</th>
<th>Wtr7_ben</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross-sectional SWS</td>
<td>Wtr7_cssws</td>
</tr>
<tr>
<td>Longitudinal SWS</td>
<td>Wtr7_lngsws</td>
</tr>
<tr>
<td>Combined RBS and cross-sectional SWS</td>
<td>Wtr7_com</td>
</tr>
</tbody>
</table>

NEST VARIABLES USED FOR CROSS-SECTIONAL ESTIMATES

**A_STRATA**

1. Clustered samples for RBS and SWS
   - A_STRATA = 1000 for non-certainty PSUs
   - A_STRATA = 2110 for Los Angeles County certainty PSU, SSDI only, first extract
   - A_STRATA = 2210 for Los Angeles County certainty PSU, SSI, first extract
   - A_STRATA = 3110 for Cook County certainty PSU, SSDI only, first extract
   - A_STRATA = 3210 for Cook County certainty PSU, SSI, first extract

   A_STRATA is defined similarly in the clustered sample certainty PSUs for other extracts, where the third digit is replaced by the extract number

2. Unclustered samples for SWS
   - A_STRATA = 4110 for SSDI only, in PSU, first extract
   - A_STRATA = 4210 for SSI, in PSU, first extract
c. \( A_{\text{STRATA}} = 5110 \) for SSDI only, not in PSU, first extract

d. \( A_{\text{STRATA}} = 5210 \) for SSI, not in PSU, first extract

\( A_{\text{STRATA}} \) is defined similarly in the unclustered sample for other extracts, where the third digit is replaced by the extract number

**A_{\text{PSU}}**

1. Clustered samples for RBS

\[ A_{\text{PSU}} = \text{FIPSCODE-derived identifier for PSU or, in Los Angeles or Cook county, SSU} \]

2. Clustered samples for cross-sectional or longitudinal SWS

\[ A_{\text{PSU}} = \text{FIPSCODE-derived identifier for PSU or, in Los Angeles or Cook county, MPRID} \]

3. Unclustered samples for cross-sectional or longitudinal SWS

\[ A_{\text{PSU}} = \text{MPRID} \]

**NOTES**

1. Before each SUDAAN procedure, sort by \( A_{\text{STRATA}} \) and \( A_{\text{PSU}} \)

2. Use SUDAAN's SUBPOPN statement to define the subpopulation for which estimates are wanted. In SAS, use the DOMAIN statement