

**MEPS HC-177:
2016 P20R3/P21R1
Population Characteristics
April 2017**

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A. Data Use Agreement

Individual identifiers have been removed from the micro-data contained in these files. Nevertheless, under sections 308 (d) and 903 (c) of the Public Health Service Act (42 U.S.C. 242m and 42 U.S.C. 299 a-1), data collected by the Agency for Healthcare Research and Quality (AHRQ) and/or the National Center for Health Statistics (NCHS) may not be used for any purpose other than for the purpose for which they were supplied; any effort to determine the identity of any reported cases is prohibited by law.

Therefore in accordance with the above referenced Federal Statute, it is understood that:

1. No one is to use the data in this data set in any way except for statistical reporting and analysis; and
2. If the identity of any person or establishment should be discovered inadvertently, then (a) no use will be made of this knowledge, (b) the Director Office of Management AHRQ will be advised of this incident, (c) the information that would identify any individual or establishment will be safeguarded or destroyed, as requested by AHRQ, and (d) no one else will be informed of the discovered identity; and
3. No one will attempt to link this data set with individually identifiable records from any data sets other than the Medical Expenditure Panel Survey or the National Health Interview Survey.

By using these data you signify your agreement to comply with the above stated statutorily based requirements with the knowledge that deliberately making a false statement in any matter within the jurisdiction of any department or agency of the Federal Government violates Title 18 part 1 Chapter 47 Section 1001 and is punishable by a fine of up to \$10,000 or up to 5 years in prison.

The Agency for Healthcare Research and Quality requests that users cite AHRQ and the Medical Expenditure Panel Survey as the data source in any publications or research based upon these data.

B. Background

1.0 Household Component

The Medical Expenditure Panel Survey (MEPS) provides nationally representative estimates of health care use, expenditures, sources of payment, and health insurance coverage for the U.S. civilian non-institutionalized population. The MEPS Household Component (HC) also provides estimates of RU members' health status, demographic and socio-economic characteristics, employment, access to care, and satisfaction with health care. Estimates can be produced for individuals, families, and selected population subgroups. The panel design of the survey, which includes 5 Rounds of interviews covering 2 full calendar years, provides data for examining person level changes in selected variables such as expenditures, health insurance coverage, and health status. Using computer assisted personal interviewing (CAPI) technology, information about each household member is collected, and the survey builds on this information from interview to interview. All data for a sampled household are reported by a single household respondent.

The MEPS-HC was initiated in 1996. Each year a new panel of sample households is selected. Because the data collected are comparable to those from earlier medical expenditure surveys conducted in 1977 and 1987, it is possible to analyze long-term trends. Each annual MEPS-HC sample size is about 15,000 households. Data can be analyzed at either the person or event level. Data must be weighted to produce national estimates.

The set of households selected for each panel of the MEPS HC is a subsample of households participating in the previous year's National Health Interview Survey (NHIS) conducted by the National Center for Health Statistics. The NHIS sampling frame provides a nationally representative sample of the U.S. civilian non-institutionalized population and reflects an oversample of Blacks and Hispanics. In 2006, the NHIS implemented a new sample design, which included Asian persons in addition to households with Black and Hispanic persons in the oversampling of minority populations. The linkage of the MEPS to the previous year's NHIS provides additional data for longitudinal analytic purposes.

2.0 Medical Provider Component

Upon completion of the household CAPI interview and obtaining permission from the household survey RU members, a sample of medical providers are contacted by telephone to obtain information that household respondents can not accurately provide. This part of the MEPS is called the Medical Provider Component (MPC) and information is collected on dates of visit, diagnosis and procedure codes, charges and payments. The Pharmacy Component (PC), a subcomponent of the MPC, does not collect charges or diagnosis and procedure codes but does collect drug detail information, including National Drug Code (NDC) and medicine name, as well as date filled and sources and amounts of payment. The MPC is not designed to yield national estimates. It is primarily used as an imputation source to supplement/replace household reported expenditure information.

3.0 Survey Management and Data Collection

MEPS HC and MPC data are collected under the authority of the Public Health Service Act. Data are collected under contract with Westat, Inc. (MEPS HC) and Research Triangle Institute (MEPS MPC). Data sets and summary statistics are edited and published in accordance with the confidentiality provisions of the Public Health Service Act and the Privacy Act. The National Center for Health Statistics (NCHS) provides consultation and technical assistance.

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports, micro data files, and tables via the MEPS web site: meps.ahrq.gov. Selected data can be analyzed through MEPSnet, an on-line interactive tool designed to give data users the capability to statistically analyze MEPS data in a menu-driven environment.

Additional information on MEPS is available from the MEPS project manager or the MEPS public use data manager at the Center for Financing Access and Cost Trends, Agency for Healthcare Research and Quality, 5600 Fishers Lane, Rockville, MD 20857 (301-427-1406).

C. Technical and Programming Information

1.0 General Information

This documentation describes the 2016 Point-in-Time data file to be released from the Medical Expenditure Panel Survey Household Component (MEPS HC). Released as an ASCII file (with related SAS, SPSS, and Stata programming statements and data user information), and a SAS transport data set, this public use file provides information on data collected on a nationally representative sample of the civilian, non-institutionalized population of the United States during the early part of 2016. The file contains 108 variables and has a logical record length of 223 with an additional 2-byte carriage return/line feed at the end of each record. The data consist of 2016 data obtained in Round 3 of Panel 20 and Round 1 of Panel 21 of the MEPS Household Component and contain variables pertaining to Survey Administration, Demographics, Health Status and Priority Conditions, Employment, and Health Insurance.

This documentation offers a brief overview of the types and levels of data provided, the content and structure of the files, and programming information. It contains the following sections:

- Data File Information
- Survey Sample Information
- Variable-Source Crosswalk

Both weighted and unweighted frequencies of most variables included on the 2016 Point-in-Time data file are provided in the accompanying codebook file. The exceptions to this are weight variables and variance estimation variables. Only unweighted frequencies of these variables are included in the accompanying codebook file. See the Weights Variables list in Section D, Variable-Source Crosswalk.

MEPS survey questionnaires, the Household Survey Variable Locator indicating the major MEPS data items on public use files that have been released to date, and a catalog of MEPS products are available on the MEPS web page (meps.ahrq.gov).

2.0 Data File Information

This public use data file contains variable and frequency distributions for a total of 38,188 persons (18,746 from Panel 20 Round 3 and 19,442 from Panel 21 Round 1). This count includes all household survey persons who resided in eligible responding households. Of these persons, 37,033 were assigned a positive person-level weight (18,007 from Panel 20 Round 3 and 19,026 from Panel 21 Round 1). In conjunction with the weight variable (WGTSP13) provided on this file, data for these persons can be used to make estimates for the civilian, non-institutionalized U.S. population as of the first half of 2016.

2.1 Codebook Structure

The codebook and data file sequence list variables in the following order:

- Unique person identifiers
- Demographic variables

- Health Status variables
- Employment variables
- Health Insurance variables
- Weight and Variance Estimation variables

2.2 Reserved Codes

The following reserved code values are used:

Value	Definition
-1 INAPPLICABLE	Question was not asked due to skip pattern
-7 REFUSED	Question was asked and respondent refused to answer question
-8 DK	Question was asked and respondent did not know answer
-9 NOT ASCERTAINED	Interviewer did not record the data
-10 HOURLY WAGE >= \$75.96	Variable was top-coded for confidentiality

2.3 Codebook Format

This codebook describes an ASCII data set and provides the following programming identifiers for each variable:

Identifier	Description
Name	Variable name (maximum of 8 characters)
Description	Variable descriptor (maximum 40 characters)
Format	Number of bytes
Type	Type of data: numeric (indicated by NUM) or character (indicated by CHAR)
Start	Beginning column position of variable in record
End	Ending column position of variable in record

2.4 Variable Naming

In general, variable names reflect the content of the variable, with an 8 character limitation. All of the variables on this file (except some demographic variables and DUID, DUPERSID, PID, PANEL, and KEYNESS) end in "13" to denote they are combination Panel 21 Round 1/Panel 20 Round 3 variables. For edited variables, the "13" is followed by an "X," and they are so noted in the variable label. Variables contained in this delivery were derived either from the questionnaire itself or from the CAPI. The source of each variable is identified in the section of the documentation entitled "D. Variable-Source Crosswalk." Sources for each variable are indicated in one of four ways: (1) variables derived from the CAPI or assigned in sampling are so indicated; (2) variables derived from complex algorithms associated with reenumeration are

labeled “RE Section”; (3) variables that come from one or more specific questions have those numbers listed in the “Source” column; and (4) variables constructed from multiple questions using complex algorithms are labeled “Constructed” in the “Source” column.

2.5 File Contents

2.5.1 Survey Administration Variables

The Survey Administration variables contain information related to conducting the interview, household and family composition, and person-level and RU-level status codes. Data for the Survey Administration variables were derived from the sampling process, the CAPI programs, or were computed based on information provided by the respondent in the reenumeration section of the questionnaire. Most Survey Administration variables on this file are asked during every round of the MEPS interview. Variables in this delivery describe data for Panel 20 Round 3 and Panel 21 Round 1 in 2016.

The variable PANEL indicates the panel from which the data are derived. A value of 20 indicates Panel 20 Round 3 data and a value of 21 indicates Panel 21 Round 1 data.

Note that Round 3 of Panel 20 covers both the end of 2015 and the beginning of 2016. (When possible, the variables were constructed to represent data from the 2016 portion of Round 3.)

Dwelling Units, Reporting Units, and Families

The definition of Dwelling Units (DUs) in the MEPS Household Survey is generally consistent with the definition employed for the National Health Interview Survey (NHIS). The dwelling unit ID (DUID) is a five-digit random ID number assigned after the case was sampled for MEPS. The person number (PID) uniquely identifies all persons within the dwelling unit. The variable DUPERSID is a combination of the variables DUID and PID; thus it uniquely identifies each sampled person in the file.

A Reporting Unit (RU) is a person or group of persons in the sampled dwelling unit who are related by blood, marriage, adoption, foster care, or other family association. Each RU is to be interviewed as a single entity for MEPS. Thus, the RU serves chiefly as a family-based “survey operations” unit rather than an analytic unit. Members of each RU within the DU are identified by the variable RULETR13. Regardless of the legal status of their association, two persons living together as a “family” unit were treated as a single reporting unit if they chose to be so identified. Examples of different types of reporting units are:

1. A married daughter and her husband living with her parents in the same dwelling unit constitute a single reporting unit.
2. A husband and wife and their unmarried daughter, age 18, who is living away from home while at college, constitute two reporting units.
3. Three unrelated persons living in the same dwelling unit would each constitute a distinct reporting unit, three reporting units in all.

Unmarried college students less than 24 years of age who usually live in the sampled household, but were living away from home and going to school at the time of the MEPS interview, were treated as a reporting unit separate from that of their parents for the purpose of data collection. The variable RUSIZE13 indicates the number of persons in each RU, treating each student as a single RU separate from their parents. Thus, students are not included in the RUSIZE13 count of their parents' RU. However, for many analytic objectives, the student reporting units would be combined with their parents' reporting unit, treating the combined entity as a single family. Family identifier and size variables are described below and include students with their parents' reporting unit.

The variable FAMID13 identifies a family (i.e., persons living together related to one another by blood, marriage, adoption, foster care, or self-identified as a single unit plus related students who are living away at post-secondary school) for each round. These family identifier variables use a letter and a DU identifier to indicate a person's family affiliation. In order to identify a person's family affiliation, users must create a unique family identification variable by concatenating the DU identifier (DUID) and the FAMID13 variable, as described in Section 3.2.2.3 Instructions to Create Family Estimates.

The variable FAMSIZ13 indicates the number of persons associated with a single family unit after students are linked to their associated parent RUs for analytical purposes. Family-level analyses should use the FAMSIZ13 variable. In a few cases, students were deleted from the file because attempts to contact them were unsuccessful, and no data were collected for them. However, these persons are accounted for in the FAMSIZ13 variable.

The family size (FAMSIZ13) and the reporting unit (RU) size (RUSIZE13) counts may not be consistent with the count of records on the file. There are some reporting units where the RU size variable (RUSIZE13) is not equal to the number of people in that RU actually included on the file. This occurs because people who did not respond for their entire period of eligibility were not included on the file. In addition, for a number of these reporting units, the reference person is not included on the file for this same reason.

The variable RURSLT13 indicates the RU response status for Round 3 for the Panel 20 sample and Round 1 for the Panel 21 sample. The values include the following:

Value	Definition
60	Complete with RU member
61	Complete with proxy--all RU members deceased on or after 1/1/2016
62	Complete with proxy--all RU members institutionalized or deceased on or after 1/1/2016
63	Complete with proxy, other

There are several other variables that characterize the reporting unit. The variable RUCLAS13 indicates the RU classification. RUs are classified for fielding purposes as 1 "Standard," 2 "New RU," or 3 "Student RU." Standard RUs are the original RUs from the NHIS. A new RU is one which has been created when members of the household leave the standard RU and are followed

according to the rules of the survey. A student RU is one in which an unmarried college student under 24 years of age is considered a usual member of the household but was living away from home while going to school and was treated as a Reporting Unit (RU) separate from that of their parents for the purpose of data collection.

Reference Period Dates

The reference period is the period of time for which data were collected in each round for each person. The reference period dates were determined during the interview for each person by the CAPI program.

The round-specific beginning reference period dates are included for each person. These variables include BEGRFM13 and BEGRFY13. Previous Point-in-Time file deliveries included the beginning reference period day variable BEGRFD13, but this variable is no longer included for confidentiality reasons. The reference period for Panel 21 Round 1 for most persons identified at NHIS began on January 1, 2016 and ended on the date of the Round 1 interview. Persons who joined the RU after January 1, 2016 have their beginning reference date for the round as the date they joined the RU.

For Panel 20 Round 3, the reference period for most persons began on the date of the previous round's interview and ended on the date of the current round's interview. Persons who joined after the previous round's interview had their beginning reference date for the round set as the date they joined the RU.

The round-specific ending reference period dates as well as the dates of the interview are included for each person. These variables include ENDRFM13, ENDRFY13, RUENDM13, and RUENDY13. In general, the date of the interview is the reference period end date for most persons. Previous Point-in-Time file deliveries included the ending reference period day variable, ENDRFD13, and the interview day variable, RUENDD13, but these variables are no longer included for confidentiality reasons. Note that the end date of the reference period may be prior to the date of the interview if the person was deceased during the round, left the country, was institutionalized prior to that round's interview, or joined the military during the round and was not living with someone else who was eligible. Because of this, it is possible for a person whose reference period for Round 3 ended in 2015 to be included in this delivery. While these few persons do not have a positive person-level weight for 2016, they are included in this file because they do have a positive family-level weight for 2016. If a person left the RU and that person was key and in-scope, the person was followed in the new RU to which he or she moved and his or her reference period dates pertain to the new RU.

Reference Person Identifiers

The variable RNDREF13 identifies the reference person for the RU. In general, the reference person is defined as the household member 16 years of age or older who owns or rents the home. If the person identified as the reference person in a previous round (at NHIS if Round 1) still lives in the RU at the date of the current interview, then this person automatically continues to be the reference person for the current round. The household respondent is asked to identify another person from the RU fitting this definition only when the previously identified reference person is

no longer living in the RU. If the respondent is unable to identify a new reference person then the questionnaire asks for the head of household among the DU members fitting this definition and the person selected or added is then considered the reference person for that RU. This information was collected in the reenumeration section of the CAPI questionnaire.

Respondent Identifiers

The respondent is the person who answered the interview questions for the reporting unit (RU). The round-specific variable RDRESP13 identifies the respondent. Only one respondent is identified for each RU. In instances where the interview was completed in more than one session, only the first respondent is indicated.

There are two types of respondents. The respondent can be either an RU member or a non-RU member proxy. The variable PROXY13 identifies the type of respondent.

Person Status

A number of variables describe the various components reflecting each person's status for each round of data collection. These variables provide information about a person's in-scope status, keyness status, eligibility status, and disposition status. These variables include: KEYNESS, INSCOP13, and PSTAT13. These variables are set based on sampling information and responses provided in the reenumeration section of the CAPI questionnaire.

Through the reenumeration section of the CAPI questionnaire, each member of a reporting unit was classified as "key" or "non-key," "in-scope" or "out-of-scope," and "eligible" or "ineligible" for MEPS data collection. To be included in the set of persons used in the derivation of MEPS person-level estimates, a person had to be a member of the U.S. civilian, non-institutionalized population for at least one day during 2016. Because a person's eligibility for the survey might have changed since the NHIS interview, a reenumeration of household membership was conducted at the start of each round's interview. Only persons who were "in-scope" sometime during 2016, "key," and responded for the full period in which they were in-scope were assigned person-level weights and thus are to be used in the derivation of person-level national estimates from the MEPS.

In-Scope

A person is considered as in-scope during a round if he or she is a member of the U.S. civilian, non-institutionalized population at some time during that round. The variable INSCOP13 indicates a person's in-scope status, specifically indicating whether a person was ever in-scope during the 2016 portion of the round.

Keyness

The term "keyness" is related to an individual's chance of being included in MEPS for purposes of making estimates about the U.S. civilian, non-institutionalized population. A person is key if that person is linked for sampling purposes to the set of NHIS sampled households designated for inclusion in MEPS. Specifically, a key person either was a member of an NHIS household at the time of the NHIS interview, or was a family member who began living with a member of

such a household after being out-of-scope prior to joining that household. (Examples of the latter situation include newborns and persons returning from military service, an institution, or living outside the United States.)

A non-key person is one whose chance of selection for the NHIS (and MEPS) was associated with a household eligible but not sampled for the NHIS, and who later became a member of a MEPS reporting unit. MEPS data (e.g., utilization and expenditures) were collected for the period of time a non-key person was part of the sampled unit to provide information for family-level analyses. However, non-key persons who leave a sample household unaccompanied by a key, in-scope member were not followed for subsequent interviews. Non-key individuals do not receive person-level sample weights and thus do not contribute to person-level national estimates. They may receive family-level weights if they are a member of a responding family.

The variable KEYNESS indicates a person's keyness status. This variable is not round-specific. Instead, it is set at the time the person enters MEPS, and the person's keyness status never changes. Once a person is determined to be key, that person will always be key.

It should be pointed out that a person may be key even though not part of the civilian, non-institutionalized portion of the U.S. population. For example, a person in the military may have been living with his or her civilian spouse and children in a household sampled for the NHIS. The person in the military would be considered a key person for MEPS. However, such a person would not be eligible to receive a person-level sample weight if he or she was never in-scope during 2016. He or she may receive a family weight if a member of a responding family.

Eligibility

The issue of a person's eligibility for MEPS is a data collection issue. Data are to be collected only for persons considered eligible for MEPS.

All key, in-scope persons of a sampled RU are eligible for data collection. The only non-key persons eligible for data collection are those who happen to be living in an RU with at least one key, in-scope person. Their eligibility continues only for the time that they are living with at least one such person. The only out-of-scope persons eligible for data collection are those persons serving full-time on active duty in the military who were living with key in-scope persons, and again only for the time they are living with such a person.

A person may be classified as eligible for an entire round or for some part of a round. For persons who are eligible for only part of a round, data are collected for that person only for the period of time for which that person was classified as eligible.

Person Disposition Status

The variable PSTAT13 indicates a person's response and eligibility status. The PSTAT13 variable indicates the reasons for either continuing data collection for a person or terminating data collection for each person in the MEPS. Using this variable, one could identify persons who moved during the reference period, died, were born, were institutionalized, or were in the military. Note that some categories may be collapsed for confidentiality purposes. Person status of 23 (Left Institution and Died) and 24 (Died in Institution) were recoded to 31 (Deceased).

The following codes specify the value labels for the PSTAT13 variable. Note that some values for PSTAT13 are round-specific, as indicated in the labels.

Value	Definition
-1	The person was not fielded during the round or the RU was non-response
0	Incorrectly listed in RU at NHIS – applies to MEPS Round 1 only
11	Person in original RU, not full-time active military duty
12	Person in original RU, full-time active military duty, out-of-scope for whole reference period
13	Full-time student living away from home, but associated with sampled RU
14	The person is full-time active military duty during round, is in-scope for part of the reference period and is in the RU at the end of the reference period
21	The person remains in a health care institution for the whole round – Round 3 only
22	The person leaves an institution (health care or non-health care) and rejoins the community – Round 3 only
23	The person leaves an institution (health care or non-health care), rejoins the community and then dies – Round 3 only
24	The person dies in a health care institution during the round (former RU member) – Round 3 only
31	Person from original RU, dies during reference period
32	Went to health care institution during reference period
33	Went to non-healthcare institution during reference period
34	Moved from original RU, outside U.S. (not as student)
35	Moved from original RU, to a military facility while on full-time active military duty
36	Went to institution (type unknown) during reference period
41	Moved from the original RU, to new RU within U.S. (new RUs include RUs originally classified as “Student RU” but which converted to “New RU”)
42	The person joins RU and is not full-time military during round

Value	Definition
43	The person's disposition as to why the person is not in the RU is unknown or the person moves and it is unknown whether the person moved inside or outside the U.S.
44	The person leaves an RU and joins an existing RU and is not both in the military and coded as in-scope during the round
51	Newborn in reference period
61	Died prior to reference period (not eligible)-Round 3/1 only
62	Institutionalized prior to reference period (not eligible)-Round 3/1 only
63	Moved outside U.S., prior to reference period (not eligible)-Round 3/1 only
64	Full-time military, living on a military facility, moved prior to reference period (not eligible)-Round 3/1 only
71	Student under 24 living away at school in grades 1-12 (Non-Key)
72	Person is dropped from the RU roster as ineligible: the person is a non-key student living away or the person is not related to reference person or the RU is the person's residence only during the school year
73	Not Key and not full-time military, moved without someone key and in-scope (not eligible)
74	Moved as full-time military but not to a military facility and without someone key and in-scope (not eligible this round)
81	Person moved from original RU, full-time student living away from home, did not respond

Geographic Information

The variable REGION13 indicates, broadly, the geographic location of the reporting unit. Specifically, REGION13 indicates the Census region the RU resides in at the time of the Round 1/Round 3 interview. The Census regions are defined by the U.S. Department of Commerce, Bureau of the Census. An indicator of MSA status had been provided in the past but is no longer being provided in order to help ensure even greater protection of the confidentiality of MEPS respondents.

The values and states for each region include the following:

Value	Label	States
1	Northeast	Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont
2	Midwest	Indiana, Illinois, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin
3	South	Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia
4	West	Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming

2.5.2 Demographic Variables

These variables provide information about the demographic characteristics of each person. As noted below, some variables have edited and imputed values. Values of most demographic variables on this file are obtained during each round of the MEPS interview. These variables describe data for Panel 20 Round 3 and Panel 21 Round 1, as well as a number of characteristics that are not round-specific.

Age

Date of birth and age for each RU member were asked or verified during each MEPS interview (AGE13X, DOBMM, DOBY). If date of birth was available, age was calculated based on the difference between date of birth and date of interview. Inconsistencies between the calculated age and the age reported during the CAPI interview were reviewed and resolved. For purposes of confidentiality, the variable AGE13X was top-coded at 85 years, and DOBY bottom coded at 1931. When date of birth was not provided but age was (from either the MEPS or the NHIS data), the month and year of birth were assigned randomly from among the possible valid options. For any cases still not accounted for, age was imputed using (1) the mean age difference between MEPS participants with certain family relationships (where available) or (2) the mean age value for MEPS participants. For example, a mother's age is imputed as her child's age plus the mean age difference between MEPS mothers and their children, or a wife's age is imputed as the husband's age plus the mean age difference between MEPS wives and husbands. For confidentiality, a few records have date of birth variables recoded to a value of -9 (Not Ascertained), and age modified according to disclosure risk guidelines.

Sex

The variable SEX contains data on the sex of each RU member (SEX), as determined during the NHIS interview; it was verified and, if necessary, corrected during each MEPS interview. The data for new RU members (persons who were not members of the RU at the time of the NHIS interview) were also obtained during each MEPS round. When sex of the RU member was not available from the NHIS interview and was not ascertained during one of the subsequent MEPS

interviews, it was assigned in the following way. The person’s first name was used to assign sex, if obvious. If the person’s first name provided no indication of gender, then family relationships were reviewed. If neither of these approaches made it possible to determine the individual’s sex, sex was randomly assigned.

Race and Ethnicity Group

The race and the ethnic background questions were asked for each RU member during the MEPS interview. If the information was not obtained in Round 1, the questions were asked in subsequent rounds. It should be noted that race/ethnicity questions in the MEPS were revised starting in 2013 for Panel 16 Round 5, Panel 17 Round 3, and Panel 18 Round 1. The main change for race is that there was only one race question starting in 2013; previously there were two questions. All Asian categories listed in the second question, RE101B, were moved to one question, RE101A. In addition, the new race question had additional detail for the Native Hawaiian and Other Pacific Islander categories. The main change for ethnicity is that the new questions allow respondents to report more than one Hispanic ethnicity. Race/ethnicity data from earlier years may not be directly comparable. The following table shows the variables used for the 2002-2012, and the 2013-2016 Point-in-Time files, with these exceptions:

- 1) In 2013 Point-in-Time, RACEV2X categories 7, 8, 9 and 10 were not combined but were combined in 2014 through 2016 Point-in-Time,
- 2) in 2013 Point-in-Time, HISPNCAT categories 6 and 7 were not combined but were combined in 2014 through 2016 Point-in-Time, and
- 3) RACEVER and HISPCAT were removed starting in 2014 Point-in-Time.

See a detailed description below.

MEPS Race and Ethnicity Variables, by Years, 2002 to Present

2002-2012 Point-in-Time Files	2013-2016 Point-in-Time Files
RACE	RACE
—	RACEVER (removed starting in 2014 Point-in-Time)
	1 Old race questions
	2 New race questions
RACEX	RACEV1X (for both old and new questions in 2013 and 2014)
1 White – No other race reported	1 White - No other race reported
2 Black – No other race reported	2 Black - No other race reported
3 American Indian/Alaska Native – No other race reported	3 Amer Indian/Alaska Native - No other race reported

2002-2012 Point-in-Time Files	2013-2016 Point-in-Time Files
4 Asian – No other race reported	4 Asian/Natv Hawaiian/Pacfc Isl - No oth
5 Native Hawaiian/Pacific Islander – No other race reported	6 Multiple races reported
6 Multiple races reported	—
—	RACEV2X (for only new questions)
	1 White - No other race reported
	2 Black - No other race reported
	3 Amer Indian/Alaska Native-No other race reported
	4 Asian Indian – No other race reported
	5 Chinese - No other race reported
	6 Filipino - No other race reported
	7 Japanese - No other race reported (only in 2013)
	8 Korean - No other race reported (only in 2013)
	9 Vietnamese – No other race reported (only in 2013)
	10 Oth Asian/Natv Hawaiian/Pacfc Isl- No oth
	12 Multiple races reported
	-1 Inapplicable (new question was not asked) (only in 2013)
RACEAX	RACEAX (for both old and new questions)
1 Asian - No other race reported	1 Asian - No other race reported
2 Asian - Other race(s) reported	2 Asian - Other race(s) reported
3 All other race assignments	3 All other race assignments
RACEBX	RACEBX (for both old and new questions)
1 Black - No other race reported	1 Black - No other race reported
2 Black - Other race(s) reported	2 Black - Other race(s) reported
3 All other race assignments	3 All other race assignments
RACEWX	RACEWX (for both old and new questions)
1 White - No other race reported	1 White - No other race reported

2002-2012 Point-in-Time Files	2013-2016 Point-in-Time Files
2 White - Other race(s) reported	2 White - Other race(s) reported
3 All other race assignments	3 All other race assignments
RACETHNX	RACETHX (for both old and new questions)
1 Person is Hispanic	1 Hispanic
2 Person is Black – No other race reported/Not Hispanic	2 Non-Hispanic White only
3 Person is Asian – No other race reported/Not Hispanic	3 Non-Hispanic Black only
4 Other race/Not Hispanic	4 Non-Hispanic Asian only
—	5 Non-Hispanic Other race or multi - race
ETHNICITY	ETHNICITY
HISPANX	HISPANX (for both old and new questions)
1 Hispanic	1 Hispanic
2 Not Hispanic	2 Not Hispanic
HISPCAT	HISPCAT (for only old questions) (removed starting in 2014 Point-in-Time)
1 Puerto Rican	1 Puerto Rican
2 Cuban/Cuban American	2 Cuban/Cuban American
3 Dominican	3 Dominican
4 Mexican/Mexican American	4 Mexican/Mexican American
5 Central or South American	5 Central or South American
6 Non-Hispanic	6 Non-Hispanic
91 Other Latin American	91 Other Latin American
92 Other Hispanic/ Latino	92 Other Hispanic/ Latino
—	-1 Inapplicable (old question was not asked)
	HISPNCAT (for only new question)
	1 Mexican/Mexican American/Chicano - No other Hispanic Reported
	2 Puerto Rican - No other Hispanic Reported
	3 Cuban/Cuban American - No other Hispanic Reported

2002-2012 Point-in-Time Files	2013-2016 Point-in-Time Files
	4 Dominican - No other Hispanic Reported
	5 Central or South American - No other Hispanic Reported
	6 Other Latin American - No other Hispanic Reported
	7 Other Hispanic/Latino/Spanish origin - No other Hispanic Reported (only in 2013)
	8 Multiple Hispanic groups reported
	9 Non-Hispanic
	-1 Inapplicable (new question was not asked) (only in 2013)

Race and ethnicity variables and their values for years prior to 2002 are available in the documentation for the Point-in-Time PUF for each data year.

Values for these variables were obtained based on the following priority order. If available, data collected were used to determine race and ethnicity. If race and/or ethnicity were not reported in the interview, then data obtained from the originally collected NHIS data were used. If still not ascertained, the race, and/or ethnicity were assigned based on relationship to other members of the DU using a priority ordering that gave precedence to blood relatives in the immediate family (this approach was used on 37 persons to set race and 34 persons to set ethnicity).

Starting in the 2014 Point-in-Time data file (Panel 18 Round 3 and Panel 19 Round 1), the variable RACEVER, which indicated which race version questions were asked, the old questions or the new questions, was removed since it no longer applied. For confidentiality, RACEV2X categories 7, 8, 9, 10 and 11 were collapsed into category 10 as “Oth Asian/Natv Hawaiian/Pacfc Isl – No Oth.” The variable RACEV1X, as in 2013 and 2014, had its categories 4 and 5 collapsed into category 4 as “Asian/Natv Hawaiian/Pacfc Isl – No Oth.” The other variables RACEAX, RACEBX, RACEWX and RACETHX continue in 2016.

Starting in the 2014 Point-in-Time file (Panel 18 Round 3 and Panel 19 Round 1), the variable HISPCAT, which indicated the ethnicity values for the old questions, was removed since it no longer applied. For confidentiality, HISPNCAT categories 6 and 7 were collapsed into category 6 as “Oth Lat Am/Hispl/Latino/Spnsh Orgn–No Oth.” The ethnicity variable HISPANX continues in 2016.

Language and English Proficiency

Starting in the 2014 Point-in-Time file, three variables were added to ascertain how well a person speaks English. All households were first asked whether anyone age 5 and above in their family

spoke a language other than English at home (RE102, OTHLANG). If the response to OTHLANG was 1 “yes,” LANGSPK (RE102A) was asked to indicate whether a person spoke Spanish or some other language at home. HWELLSPE (RE102B) indicates how well a person who lives in a family where someone speaks some other language at home, speaks English.

These questions were asked about each person except deceased and institutionalized persons in the first round of the interview. OTHLANG was also asked about new persons, and if they were reported speaking a language other than English at home, it was asked what language they speak at home and how well they speak English. However, OTHLANG and LANGSPK were set to -1 “Inapplicable” for any new persons, and HWELLSPE was set to the appropriate value.

Foreign Born Status

Three foreign born questions were asked in the Demographic section to ascertain whether a person was born in the U.S. (RE102C), what year they came to the U.S. (RE102D) if not born in the U.S., and years lived in the U.S. (RE102E) if the response to RE102D was “Don’t Know.”

The three foreign born questions were asked only once for each eligible person, that is, the first round the person was included in the interview. These new questions were asked about everyone except deceased and institutionalized persons. The data from RE102D and RE102E were used to calculate the number of years a person has lived in the U.S. for the constructed variable, YRSINUS. The data from RE102C are reported as the constructed variable BORNUSA.

Marital Status and Spouse ID

Current marital status was collected and/or updated during each round of the MEPS interview. This information was obtained in RE13 and RE97 and is reported as MARRY13X. Persons under the age of 16 were coded as 6 “Under 16 - Inapplicable.” In instances where there were discrepancies between the marital statuses of two individuals within a family, other person-level variables were reviewed to determine the edited marital status for each individual. For example, in Panel 20 Round 3, when one spouse was reported as married and the other spouse reported as widowed, the data were reviewed to determine if one partner should be coded as 8 “Widowed in Round.”

Four edits were performed to ensure some consistency across rounds for the Panel 20 Round 3 data. First, a person could not be coded as “Never Married” after previously being coded as any other marital status (e.g., “Widowed”). Second, a person could not be coded as “Under 16 - Inapplicable” after being previously coded as any other marital status. Third, a person could not be coded as “Married in Round” after being coded as “Married” in the round immediately preceding. Fourth, a person could not be coded as an “in Round” code (e.g., “Widowed in Round”) in two subsequent rounds.

The person identifier for each individual’s spouse is reported in SPOUID13. The variable is set to the PID (within each family) of the person identified as the spouse during the round. If no spouse was identified in the household, the variable was coded as 995 “no spouse in house.” Those with unknown marital status are coded as 996 “marital status unknown.” Persons under the age of 16 are coded as 997 “Less than 16 years old.”

The SPOUIN13 variable indicates whether a person's spouse was present in the RU during the round. If the person had no spouse in the household, the value was coded as 2 "Not Married/No Spouse." For persons under the age of 16 the value was coded as 3 "Under 16 – Inapplicable." The SPOUID13 and SPOUIN13 variables were obtained from RE76A, where the respondent was asked to identify how each pair of persons in the household was related. Analysts should note that this information was collected in a question separate from the questions that asked about marital status. While editing was performed to ensure that SPOUID13 and SPOUIN13 are consistent within each round, there was no consistency check between these variables and marital status in a given round. Apparent discrepancies between marital status and spouse information may be due to any of the following causes:

- Ambiguity as to when during a round a change in marital status occurred. This is a result of relationship information being asked for all persons living in the household at any time during the round, while marital status is asked as of the interview date (e.g., If one spouse died during the reference period, the surviving spouse's marital status would be "widowed in round," but SPOUIN13 and SPOUID13 for the same round would indicate that a spouse was present);
- Valid discrepancies in the case of persons who are married but not living with their spouse, or separating but still living together; or
- Discrepancies which cannot be explained by either of the previous reasons.

Student Status and Educational Attainment

The variable FTSTD13X indicates whether the person was a full-time student at the interview date. This variable has valid values for all persons between the ages of 17 - 23 inclusive.

Education questions were asked only when persons first entered MEPS, typically Round 1 for most people. The collection of education questions in MEPS changed between 2011 and 2012 and then changed back to the original questions in 2015.

EDUCYR and HIDEG were obtained for all Panel 21 Round 1 and Panel 20 Round 3 individuals.

EDUCYR contains the number of completed years of education for individuals 5 years or older when they first entered MEPS. Children under the age of 5 years when they entered MEPS were coded as -1 "Inapplicable," regardless of whether or not they attended school. Individuals who were 5 years of age or older and had never attended school when they first entered MEPS were coded as 0.

HIDEG contains information on the highest educational degree attained when individuals first entered MEPS. It was obtained from three questions: highest grade completed, high school diploma, and highest degree. Persons under 16 years of age when they first entered MEPS were coded as 8 "Under 16 -Inapplicable." In cases where the response to the highest degree question was "no degree" and highest grade was 13 through 17, the variable was coded as 3 "high school diploma." If highest grade completed for those with a "no degree" response was "refused" or "don't know," the variable was coded as 1 "no degree." The user should note that the EDUCYR and HIDEG variables are unedited variables and minimal data cleaning was performed on these

variables. Therefore, discrepancies in data may remain for these two sets of variables. Decisions as to how to handle these discrepancies are left to the analyst.

Military Service and Service Era

Information on active duty military status was collected during each round of the MEPS interview. Persons currently on full-time active duty status are identified in the variable ACTDTY13. Those under 16 years of age were coded as 3 “Under 16-Inapplicable” and those over the age of 59 were coded as 4 “Over 59-Inapplicable.”

HONRDC13 indicates whether a person has ever been honorably discharged from active duty in the United States Armed Forces. Those 16 years of age and under are coded as 3 “16 or Younger - Inapplicable,” and those who are currently serving on full-time active duty are coded as 4 “Now Active Duty.”

Relationship to the Reference Person within Reporting Units

For each reporting unit (RU), the person who owns or rents the dwelling unit is usually defined as the reference person. For student RUs, the student is defined as the reference person. (For additional information on reference persons, see the documentation on Reference Person Identifiers in the Survey Administration section.) The relationship variable indicates the relationship of each individual to the reference person of the reporting unit (RU) in a given round. Prior to the 2014 Point-in-Time file, the variable RFREL13X was provided with detailed relationships. Since the 2014 Point-in-Time, for confidentiality, the detailed relationships were combined into more general categories in the new variable REFRL13X. For the reference person, this variable has the value “Household Reference Person”; for all other persons in the RU, relationship to the reference person is indicated by codes representing “Spouse,” “Unmarried Partner,” “Child,” etc. A code of 91, meaning “Other related,” was used to indicate rarely observed relationship descriptions such as “Mother of Partner,” “Partner of Sister,” etc. If the relationship of an individual to the reference person was not ascertained during the round-specific interview, relationships between other RU members were used, where possible, to assign a relationship to the reference person. If MEPS data were not sufficient to identify the relationship of an individual to the reference person, relationship variables from the NHIS data were used to assign a relationship. In the event that a meaningful value could not be determined or data were missing, the relationship variable was assigned a missing value code.

2.5.3 Health Status and Priority Condition Variables

Health Status variables involved the construction of person-level variables based on information collected in the Condition Enumeration, Priority Condition Enumeration, and Health Status sections of the questionnaire. The majority of Health Status questions were initially asked at the family level to ascertain if anyone in the household had a particular problem or limitation. These were followed up with questions to determine which household member had each problem or limitation. Logical edits were performed in constructing the person-level variables to ensure that family-level and person-level values were consistent. Particular attention was given to cases where missing values were reported at the family level to ensure that appropriate information was carried to the person level. Inapplicable cases occurred when a question was never asked

because of skip patterns in the survey (e.g., individuals who were 13 years of age or older were not asked some follow-up verification questions). Inapplicable cases are coded as -1. In addition, for all variables, deceased persons were coded as inapplicable and received a code of -1.

Perceived Health Status and Mental Health Status

Perceived health status (RTHLTH13) and perceived mental health status (MNHLTH13) were collected in the Priority Condition Enumeration section. These questions (PE00A and PE00B) asked the respondent to rate the physical and mental health of each person in the family according to the following categories: excellent, very good, good, fair, and poor. No editing was done to these variables.

IADL and ADL Help/Supervision

The Instrumental Activities of Daily Living (IADL) Help or Supervision variable (IADLHP13) was constructed from a series of three questions. The initial question (HE01) determined if anyone in the family received help or supervision with IADLs such as using the telephone, paying bills, taking medications, preparing light meals, doing laundry, or going shopping. If the response was “yes,” a follow-up question (HE02) was asked to determine which household member received this help or supervision. For persons under age 13, a final verification question (HE03) was asked to confirm that the IADL help or supervision was the result of an impairment or physical or mental health problem. If the response to the final verification question was “no,” IADLHP13 was coded as “no” for persons under the age of 13.

If no one in the family was identified as receiving help or supervision with IADLs, all members of the family were coded as receiving no IADL help or supervision. In cases where the response to the family-level question was “don’t know,” “refused,” or otherwise missing, all persons were coded according to the family-level response. In cases where the response to the family-level question (HE01) was “yes” but no specific individuals were identified in the follow-up question as having IADL difficulties, all persons were coded as “don’t know” (-8).

The Activities of Daily Living (ADL) Help or Supervision variable (ADLHLP13) was constructed in the same manner as IADLHP13, but using questions HE04-HE06. Coding conventions for missing data were the same as for IADLHP13.

Functional Limitations

A series of questions pertained to functional limitations, defined as difficulty in performing certain specific physical actions. WLKLIM13 was the filter question. It was derived from a question (HE09) that was asked at the family level: Does anyone in the family have difficulties walking, climbing stairs, grasping objects, reaching overhead, lifting, bending or stooping, or standing for long periods of time? If the answer was “no,” then all family members were coded as “no” (2) on WLKLIM13. If the answer was “yes,” then the specific persons who had any of these difficulties were identified and coded as “yes” (1) on WLKLIM13, and remaining family members were coded as “no.” If the response to the family-level question was “don’t know” (-8), “refused” (-7), “missing” (-9), or “Inapplicable” (-1), then the corresponding missing value code was applied to each family member’s value for WLKLIM13. If the answer to HE09 was “yes,” but no specific individual was named as experiencing such difficulties, then each family member

was assigned -8 for WLKLIM13. Deceased persons were assigned a code of “Inapplicable” (-1) for WLKLIM13.

If any family member was coded “yes” to WLKLIM13, a subsequent series of questions was administered. The series of questions for which WLKLIM13 served as a filter was as follows:

- LFTDIF13 – difficulty lifting 10 pounds
- STPDIF13 – difficulty walking up 10 steps
- WLKDIF13 – difficulty walking 3 blocks
- MILDIF13 – difficulty walking a mile
- STNDIF13 – difficulty standing 20 minutes
- BENDIF13 – difficulty bending or stooping
- RCHDIF13 – difficulty reaching over head
- FNGRDF13 – difficulty using fingers to grasp

This series of questions was asked separately for each person who was coded “yes” to WLKLIM13. This series of questions was not asked for other individual family members for whom WLKLIM13 was “no.” In addition, this series was not asked about family members who were less than 13 years of age, regardless of their status on WLKLIM13. These questions were not asked about deceased family members. In such cases (i.e., WLKLIM13 = 2, or age < 13, or PSTAT13 = (23,24,31)), each question in the series was coded as “Inapplicable” (-1). Finally, if responses to WLKLIM13 were “refused” (-7), “don’t know” (-8), “not ascertained” (-9), or otherwise Inapplicable (-1), then each question in this series was coded as “Inapplicable” (-1).

Analysts should note that, for WLKLIM13, there was no minimum age criterion that was used to determine a skip pattern, whereas, for the subsequent series of questions, persons less than 13 years old were skipped and coded as inapplicable. Therefore, it is possible for someone aged 12 or less to have a code of 1 (“yes”) on WLKLIM13, and also to have codes of inapplicable on the subsequent series of questions.

Use of Assistive Technology and Social/Recreational Limitations

The variables indicating use of assistive technology (AIDHLP13, from question HE07) and social/recreational limitations (SOCLIM13, from question HE22) were collected initially at the family level. If there was a “yes” response to the family-level question, a second question identified the specific individual(s) to whom the “yes” response pertained. Each individual identified as having the difficulty was coded “yes” on the appropriate variable; all remaining family members were coded “no.” If the family-level response was “don’t know,” “refused,” or otherwise missing, all persons were coded with the family-level response. In cases where the family-level response was “yes” but no specific individual was identified as having difficulty, all family members were coded as “don’t know” (-8).

Work, Housework, and School Limitations

The variable indicating any limitation in work, housework, or school (ACTLIM13) was constructed using questions HE19-HE20. Specifically, information was collected initially at the family level. If there was a “yes” response to the family-level question (HE19), a second question (HE20) identified the specific individual(s) to whom the “yes” response pertained. Each

individual identified as having a limitation was coded “yes” on ACTLIM13; all remaining family members were coded “no.” If the family-level response was “don’t know,” “refused,” or otherwise missing, all persons were coded with the family-level response. In cases where the family-level response was “yes” but no specific individual was identified as having difficulty, all family members were coded as “don’t know” (-8). Persons less than five years old were coded as “Inapplicable” (-1) on ACTLIM13.

If ACTLIM13 was “yes” and the person was 5 years of age or older, a follow-up question (HE20A) was asked to identify the specific limitation or limitations for each person. These included working at a job (WRKLIM13), doing housework (HSELIM13), or going to school (SCHLIM13). Respondents could answer “yes” to each activity; one person could thus report limitation in multiple activities. WRKLIM13, HSELIM13, and SCHLIM13 have values of “yes” or “no” only if ACTLIM13 was “yes”; each variable was coded as “Inapplicable” (-1) if ACTLIM13 was “No” (2). When ACTLIM13 was “Refused” (-7), these variables were all coded as “Refused” (-7); when ACTLIM13 was “Don’t Know” (-8), these variables were all coded as “Don’t Know” (-8); and when ACTLIM13 was “Not Ascertained” (-9), these variables were all coded as “Not Ascertained” (-9). If a person was under 5 years old or was deceased, WRKLIM13, HSELIM13, and SCHLIM13 were each coded as “Inapplicable” (-1).

A second question (HE21) asked if the person was completely unable to work at a job, do housework, or go to school. Those persons who were coded “no,” “Refused,” “Don’t Know,” or “Not Ascertained” on ACTLIM13, or were under 5 years of age, or were deceased, were coded as “Inapplicable” (-1) on UNABLE13. UNABLE13 was asked once for whichever set of WRKLIM13, HSELIM13, and SCHLIM13 the person had limitations; if a person was limited in more than one of these three activities, UNABLE13 did **not** specify if the person was completely unable to perform all of them, or only some of them.

Cognitive Limitations

The variable COGLIM13 was collected at the family level as a three-part question (HE24-01 to HE24-03) indicating if any of the adults in the family (1) experience confusion or memory loss, (2) have problems making decisions, or (3) require supervision for their own safety. If a “yes” response was obtained to any item, the persons affected were identified in HE25 and COGLIM13 was coded as “yes.” Remaining family members not identified were coded as “no” for COGLIM13.

If responses to HE24-01 through HE24-03 were all “no,” or if two of three were “no” and the remaining was “don’t know,” “refused,” or otherwise missing, all family members were coded as “no.” If responses to the three questions were combinations of “don’t know,” “refused,” and missing, all persons were coded as “don’t know.” If the response to any of the three questions was “yes” but no individual was identified in HE25, all persons were coded as “don’t know.”

COGLIM13 reflects whether any of the three component questions is “yes.” Persons with one, two, or three specific cognitive limitations cannot be distinguished. In addition, because the question asked specifically about “adult” family members, all persons less than 18 years of age are coded as “Inapplicable” (-1) on this question.

2.5.4 Employment Variables

Employment questions were asked of all persons 16 years and older at the time of the interview. Employment variables consist of person-level indicators such as employment status and job-related variables such as hourly wage. All job-specific variables refer to a person's current main job. The current main job, defined by the respondent, indicates the main source of employment.

Employment variables included on the Panel 20 Round 3/Panel 21 Round 1 2016 release are: EMPST13, HRWAG13X, HRWGRD13, HRWAY13, HOUR13, HELD13X, OFFER13X, NUMEMP13 and SELFCM13. Most employment variables pertain to status as of the date of the interview.

Logical edits were performed on variables that indicate whether health insurance is held or offered at a current main job. In addition, some wage information was logically edited for consistency. Edits were performed under these circumstances:

- in some cases where wages reported as less than \$1.00 per hour are updated in a subsequent round to greater than \$1.00, and the wage increased by a factor of 10 or 100 (for example, if a Round 4 wage is updated to \$20.00, the Round 3 wage of \$0.20 could logically be updated to \$20.00); in some of these cases, additional comments may have also indicated an error; and
- in some cases where wages changed substantially from round to round and a keying error was evident (for example, 'the number of hours on which the salary is based' is updated from '40' to '4'; the '4' could logically be updated to '40').

In all cases that result in an edit, a complete review of wage and employment history is performed; in some cases, comparisons are made to employment at similar establishments within the MEPS as well as to data reported and summarized by the Bureau of Labor Statistics.

When missing, wage values were imputed for certain persons' hourly wage; however, there was no editing performed on any values reported by the respondent (except as noted above). Hourly wages greater than or equal to \$75.96 were top-coded to -10. The number of employees variable was top-coded at 500.

Employment Status (EMPST13)

Employment status was asked for all persons aged 16 or older. Responses to the employment status question were: "currently employed" if the person had a job at the interview date, "has a job to return to" if the person did not work during the reference period but had a job to return to as of the interview date, "employed during the reference period" if the person had no job at the interview date but did work during 2016, and "not employed with no job to return to" if the person did not have a job at the interview date, did not work during the reference period, and did not have a job to return to. These responses are mutually exclusive. A current main job was defined for persons reporting that they were currently employed and who identified a current main job, and for persons who reported and identified a job to return to. Therefore, job-specific information, such as hourly wage, exists for persons not presently working at the interview date but who have a job to return to.

Hourly Wage (HRWAG13X, HRWGRD13, and HRWAY13)

Hourly wage was asked of all persons who reported a current main job that was not self-employment (SELFCM13). Beginning in Panel 20 Round 3 and Panel 19 Round 5, CAPI prompts the respondent to confirm wages reported in the Employment Wage section if a wage amount falls outside a specified wage range. Ranges vary depending on the unit of pay as follows:

Unit of Pay	Wage Range
PER YEAR	\$5,000.00 - \$200,000.00
PER MONTH	\$375.00 - \$20,000.00
PER 2-WEEK PERIOD	\$150.00 - \$10,000.00
PER WEEK	\$75.00 - \$5,000.00
PER DAY	\$10.00 - \$750.00
PER HOUR	\$1.00 - \$125.00

For reasons of confidentiality, the hourly wage variable (HRWAG13X) was top-coded. A value of -10 indicates that the hourly wage was greater than or equal to \$75.96. The hourly wage on this file (HRWAG13X) should be considered along with its accompanying variables HRWGRD13 and HRWAY13.

HRWGRD13 is a flag that indicates the round in which the reported hourly wage was collected. This flag is always set to “1” for people who are a part of Panel 21 because the reported hourly wage is always from Round 1 as only Round 1 information is reported on this file. People who are a part of Panel 20 can have a current main job from a previous round and HRWGRD13 indicates the round in which the wage information was collected. For Round 3 current main jobs that continue as the current main job from Round 1, HRWGRD13 is “1.” For Round 3 current main jobs that continue as the current main job from Round 2 (but not Round 1), HRWGRD13 is “2.” For Round 3 current main jobs that are identified as current main for the first time in Round 3, HRWGRD13 is “3.”

For persons who did not indicate a wage amount but who did indicate a range into which the hourly wage falls, the reported hourly wage (HRWAG13X) is the median within that range. The medians were calculated using actual wages reported from the same round by persons of the same gender reporting hourly wages within each age range category. In some cases, particularly in the low wage range, gender was not used in the calculation of the median wage in order to provide a large enough base.

HRWAY13 indicates how the corresponding HRWAG13X was constructed. Hourly wage was derived, as applicable, from a large number of source variables. In the simplest case, hourly wage was reported directly by the respondent. For other persons, construction of the hourly wage was based upon their salary, the time period on which the salary was based, and the number of hours worked per time period. If the number of hours worked per time period was not available, a value of 40 hours per week was assumed, as identified in the HRWAY13 variable.

Health Insurance (HELD13X and OFFER13X)

There are two employment-related health insurance measures included in this release: health insurance held from a current main job (HELD13X) and health insurance offered from a current main job (OFFER13X). The held and offer variables were logically edited using health insurance information from the health insurance section not available for public release.

Persons under age 16 as well as persons aged 16 and older who do not hold a current main job, who are self-employed with no employees, or who are otherwise ineligible are coded as “Inapplicable” for both the health insurance-related employment variables.

HELD13X is “yes” if the person reported having insurance coverage from the employer or union at the current main job and that coverage provides hospital/physician or Medigap benefits (as long as the person is not self-employed with no employees). HELD13X is also “yes” if the person’s current main job is with the armed forces.

HELD13X is “no” if the person either reported that insurance is not obtained through the current main job or reported insurance and then disavowed it. To disavow insurance is to initially report it but then to deny that it is provided later in the interview, or to confirm it but indicate that it does not include hospital/physician or Medigap benefits. As noted above, this does not apply to self-employed persons with no employees (always “Inapplicable”) and those with a current main job in the armed forces (always “yes”).

OFFER13X is always coded as “yes” if HELD13X is “yes.” In addition, except for certain self-employed persons with OFFER13X set to “Inapplicable” (see above), OFFER13X is coded as “yes” if insurance was offered through the employer or union at the job. OFFER13X is “no” when HELD13X equals “no” and insurance was not offered by the employer or union at the job.

As indicated above, information collected in the health insurance section of the interview was considered in the construction of HELD13X and OFFER13X. For example, several persons indicated in the employment section of the interview that they held health insurance through a current main job and then denied this coverage later in the health insurance section. Such people were coded as “no” for HELD13X. Due to questionnaire skip patterns, the value for HELD13X was considered in constructing the OFFER13X variable. For example, if a person responded that health insurance was held from a current main job, they were skipped past the question relating to whether health insurance was offered at that job. If the person later disavowed this insurance in the health insurance section of the questionnaire, we would not be able to ascertain whether they were offered a policy. These individuals are coded as -9 for OFFER13X.

Hours (HOUR13)

HOUR13 is the number of hours worked per week at the current main job.

Number of Employees (NUMEMP13)

Due to confidentiality concerns, the variable indicating the number of employees at the establishment (NUMEMP13) has been top-coded at 500 or more employees. NUMEMP13 indicates the number of employees at the location of the person’s current main job. For persons

who reported a categorical size, we report a median estimated size from within the reported range.

Beginning in Panel 20 Round 3/Panel 19 Round 5, CAPI no longer accepts values of ‘0’ at questions EM124 and RJ08B (JOBS.TOTLEMP) where respondents are asked to indicate the total number of employees working at a self-employed business. This change is reflected in NUMEMP13. It should be noted that some persons continue to have NUMEMP13 set to ‘-9’ based on a JOBS.TOTLEMP value of ‘0’ due to the CAPI flow. This change will be fully reflected on NUMEMP13 for self-employed main jobs in the 2017 Point-in-Time data delivery.

2.5.5 Health Insurance Variables

Constructed and edited variables are provided that indicate any coverage during the MEPS Panel 21 Round 1 and Panel 20 Round 3 interviews for the sources of health insurance coverage collected during the MEPS interview. With the exception of private insurance (PRIV13), the insurance variables for the Panel 21 Round 1 observations have been edited. For both the Panel 21 Round 1 sample and the Panel 20 Round 3 sample, minimal editing was performed on the Medicare and Medicaid or State Children’s Health Insurance Program (SCHIP) variables to assign persons to coverage from these sources. Because persons 65 years and older can retain TRICARE coverage in addition to Medicare, persons over age 65 will not have their reported TRICARE coverage (TRINW13X) overturned. TRICARE will act as a supplemental insurance for Medicare much as Medigap insurance does. As mentioned above, private insurance coverage was unedited and unimputed for Panel 21 Round 1. For Panel 20 Round 3, most of the insurance variables have been logically edited to address issues that arose during Rounds 2 and 3 when reviewing insurance reported in earlier rounds. One edit corrects for possible respondent confusion with respect to a question about covered benefits asked of respondents who reported a change in their private health insurance plan name. Additional edits were performed to address issues of missing data on the time period of coverage. Note that the Medicare and TRICARE variables indicate coverage at the time of the Panel 21 Round 1 or Panel 20 Round 3 interview dates. The private coverage and other public insurance variables indicate coverage at any time during Panel 21 Round 1 or Panel 20 Round 3.

Public sources include Medicare, TRICARE/CHAMPVA, Medicaid, SCHIP, and other public hospital/physician coverage. State-specific program participation in non-comprehensive coverage (STPRG13) was also identified but is not considered health insurance for the purposes of this survey.

Medicare

Medicare (MCARE13) coverage was edited (MCARE13X) for persons age 65 or over. Within this age group, individuals were assigned Medicare coverage if:

- They answered “yes” to a follow-up question on whether or not they received Social Security benefits; or
- They were covered by Medicaid/SCHIP, other public hospital/physician coverage, or Medigap coverage; or
- Their spouse was age 65 or older and covered by Medicare; or

- They reported TRICARE coverage.

Medicaid and Other Public Hospital/Physician Coverage

Questions about other public hospital/physician coverage were asked in an attempt to identify Medicaid or SCHIP recipients who may not have recognized their coverage as such. These questions were asked only if a respondent did not report Medicaid or SCHIP directly. Respondents reporting other public hospital/physician coverage were asked follow-up questions to determine if their coverage was through a specific Medicaid HMO or if it included some other managed care characteristics. Respondents who identified managed care from either path were asked if they paid anything for the coverage and/or if a government source paid for the coverage.

The Medicaid variables (MCAID13) have been edited (MCAID13X) to include persons who paid nothing for their other public hospital/physician insurance when such coverage was through a Medicaid HMO or reported to include some other managed care characteristics. The Medicaid variables also include those identified as covered by SCHIP.

To assist users in further editing sources of insurance, this file contains variables constructed from the other public hospital/physician series that measure whether:

- The respondent reported some type of managed care and paid something for the coverage, Other Public A Insurance (OTPUBA13); or
- The respondent did not report any managed care, Other Public B Insurance (OTPUBB13).

The variables OTPUBA13 and OTPUBB13 are provided only to assist in editing and should not be used to make separate insurance estimates for these types of insurance categories.

Any Public Insurance in Round 3/Round 1

The file also includes a summary measure that indicates whether or not a sample person has any public insurance during the early part of 2016 (PUB13X). Persons identified as covered by public insurance are those reporting coverage under TRICARE, Medicare, Medicaid or SCHIP, or other public hospital/physician programs. Persons covered only by state-specific programs that did not provide comprehensive coverage (STPRG13), for example, Maryland Kidney Disease Program, were not considered to have public coverage when constructing the variable PUB13X. Note that further edits may be made to the public insurance variables in later MEPS data releases to address cases where private coverage through a federally-facilitated, state-based or state partnership exchange/marketplace may have been originally reported as public insurance. These potential edits could affect the variables MCAID13X, OTPUBA13, OTPUBB13, and PUB13X.

Private Insurance

Variables identifying private insurance in general (PRIV13) and specific private insurance sources such as employer/union group insurance (PRIEU13); non-group insurance (PRING13); other group insurance (PRIOG13); and private insurance through a federally-facilitated, state-based or state partnership exchange/marketplace (PRSTX13) were constructed. Private insurance

sources identify coverage in effect at any time during the early part of 2016. Separate variables identify covered persons and policyholders (policyholder variables begin with the letter “H,” e.g., HPRIEU13). These variables indicate coverage or policyholder status within a source and do not distinguish between persons who are covered or policyholders on one or more policy within a given source. In some cases, the respondent was unable to characterize the source of insurance (PRIDK13). Covered persons (but not policyholders) are identified when the policyholder is living outside the RU (PRIOUT13). An individual was considered to have private health coverage if, at a minimum, that coverage provided benefits for hospital and physician services (including Medigap coverage). Note, however, that persons covered by private insurance through an exchange/marketplace (PRSTX13 and HPRSTX13) were considered to have private health coverage if that coverage provided hospital/physician services, but excluded coverage that was explicitly identified as Medigap coverage (EPRS.MSUPINS=1). If a person reported Medigap coverage through the exchange/marketplace, then the source of the insurance purchased was edited to reflect coverage “from a professional association” (EPRS.PURCHTYP=1) or “from a group or association” coverage (EPRS.PRIVINS=1). Further descriptions of the exchange variables are detailed below. Sources of insurance with missing information regarding the type of coverage were assumed to contain hospital/physician coverage. Persons who reported private insurance that did not provide hospital/physician insurance were not counted as privately insured.

Health insurance through a job or union (PRIEU13, PRIS13) was initially asked about in the Employment Section of the interview and later confirmed in the Health Insurance Section. Respondents also had an opportunity to report employer and union group insurance (PRIEU13) for the first time in the Health Insurance Section, but this insurance was not linked to a specific job.

All insurance reported to be through a job classified as self-employed with firm size of 1 (PRIS13) was initially reported in the Employment Section and verified in the Health Insurance Section. Unlike the other employment-related variable (PRIEU13), self-employed with firm size of 1 (PRIS13) insurance could not be reported in the Health Insurance Section for the first time. The variable PRIS13 has been constructed to allow users to determine if the insurance should be considered employment-related.

Private insurance that was not employment-related (PRING13, PRIOG13, PRIDK13, PRIOUT13, and PRSTX13) was reported in the Health Insurance Section only.

Beginning in Panel 12 Round 2, the response category “Health Insurance Purchasing Alliance” was removed from HX03 (EPRS.PURCHTYP=4) and HX23 (EPRS.PRIVINS=2) because it was infrequently reported and it was not clear how respondents were using this category.

Beginning in Panel 14 Round 5/Panel 15 Round 3, “High Risk Pool” was added to the list of categories at HX03 (EPRS.PURCHTYP=10) and HX23 (EPRS.PRIVINS=13). Beginning FY 2010, High Risk Pool was included in all Other Group insurance categories.

Beginning in Panel 18 Round 3/Panel 19 Round 1, “Federal/State Exchange” was added to the list of private insurance categories at HX03 (EPRS.PURCHTYP=11) and HX23 (EPRS.PRIVINS=14). Additionally, beginning in Panel 18 Round 3/Panel 19 Round 1, variables

EPRS.STEXCH03 and EPRS.STEXCH23 were collected at question HP04A (“Is this coverage through {state exchange name}?”) for respondents reporting insurance from a group, directly from an insurance company or HMO, from an insurance agent or from an “other” unspecified source. Beginning in Panel 20 Round 3, the variable EPRS.OESTEXCH was collected at OE28A (“Is this coverage through {state exchange name}?”) for respondents who previously reported private insurance coverage from an insurance company or HMO, or from an insurance agent that was not through an exchange/marketplace. Note that the state specific name for the exchange/marketplace was used when asking this question and was also used on the list of private insurance categories at HX03, HX23, and OE28A. The variable PRSTX13 has been constructed to include persons less than 65 years old who report private insurance through a federally-facilitated, state-based or state partnership exchange/marketplace at HX03 or HX23, or persons 65 years old or older who report private insurance through a federally-facilitated, state-based or state partnership exchange/marketplace at HX03 or HX23 and not covered by Medicare. In addition, persons who reported a source of insurance at HX23 that was not through an exchange/marketplace (e.g. through a group or directly from an insurance company) but who answered yes to HP04A or OE28A were also classified as having exchange/marketplace coverage instead of being assigned to the category they originally reported. In addition to reporting coverage through an exchange/marketplace, coverage needed to have been identified as hospital/physician coverage (either as a Yes (1) or missing (-7, -8, -9)), but not identified as having Medicare supplemental coverage. Currently, these variables contain information on private coverage that was reported as obtained through a federally-facilitated, state-based or state partnership marketplace. However, MEPS respondents reporting public coverage were also asked whether the public coverage was obtained through a federal or state marketplace in case respondents were confused about whether the source of coverage was public or private. This approach is consistent with the health insurance questions in the Current Population Survey and the National Health Interview Survey. The variables PRSTX13 and HPRSTX13 should be considered unedited since some individuals with public coverage reported as through a marketplace may be edited to *private* exchange/marketplace coverage in later releases of MEPS data, once additional information on family income is available to aid in data edits. Any further edits of this type will also possibly affect the variables MCAID13X, OTPUBA13, OTPUBB13, and PUB13X.

Any Insurance in Round 3 / Round 1

The file also includes a summary measure that indicates whether a sample person has any insurance during the early part of 2016 (INSRD13X). Persons identified as insured are those reporting coverage under TRICARE, Medicare, Medicaid, SCHIP, or other public hospital/physician or private hospital/physician insurance (including Medigap plans). A person is considered uninsured if not covered by one of these insurance sources.

Persons covered only by state-specific programs that provide non-comprehensive coverage (STPRG13), for example, Maryland Kidney Disease Program, and those without hospital/physician benefits (for example, private insurance for dental or vision care only, accidents or specific diseases) were not considered to have public coverage when constructing the variable INSRD13X.

2.6 Linking to Other Files

2.6.1 National Health Interview Survey (NHIS)

Each MEPS panel can also be linked back to the previous year's National Health Interview Survey public use data files. For information on obtaining MEPS/NHIS link files please see meps.ahrq.gov//data_stats/download_data_files.jsp.

2.6.2 Longitudinal Analysis

Panel-specific longitudinal files are available for downloading in the data section of the MEPS Web site. For each panel, the longitudinal file comprises MEPS survey data obtained in Rounds 1 through 5 of the panel and can be used to analyze changes over a two-year period. Variables in the file pertaining to survey administration, demographics, employment, health status, disability days, quality of care, patient satisfaction, health insurance, and medical care use and expenditures were obtained from the MEPS full-year Consolidated files from the two years covered by that panel.

For more details or to download the data files, please see Longitudinal Weight Files at meps.ahrq.gov/data_stats/more_info_download_data_files.jsp.

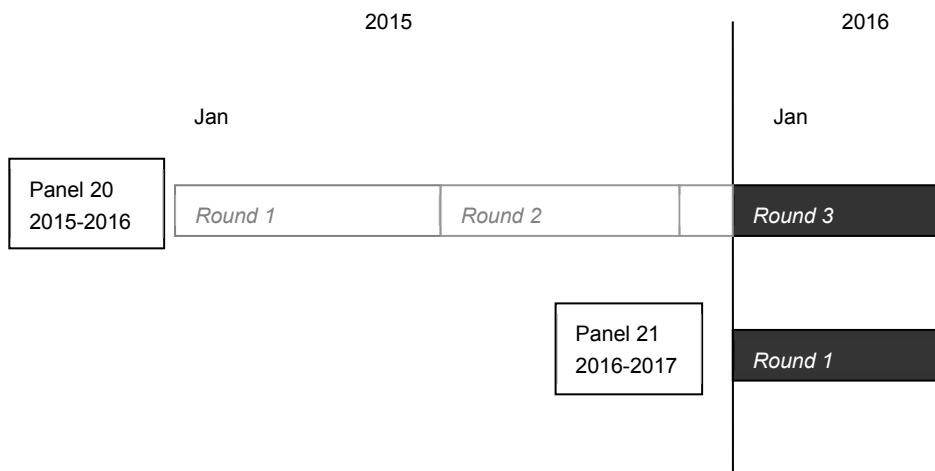
3.0 Survey Sample Information

3.1 Sample Design and Response Rates

The MEPS HC is designed to produce estimates at the national and regional levels over time for the civilian, non-institutionalized population of the United States and some subpopulations of interest. The MEPS HC uses an overlapping panel design in which data for two calendar years are obtained through five rounds of data collection.

Each year a new MEPS panel is formed. Each new panel consists of a randomly selected subsample of responding households to the previous year's National Health Interview Survey (NHIS) conducted by the National Center for Health Statistics, Centers for Disease Control and Prevention. (The NHIS is an ongoing general health survey of the U.S. civilian non-institutionalized population.)

MEPS Panel 20 spans the two calendar years 2015 and 2016 while MEPS Panel 21 spans 2016 and 2017. This year's point-in-time file contains the data from respondents to the nineteenth and twentieth MEPS panels covering the time period from January 1, 2016 through, roughly, the spring of calendar year 2016. To achieve this, data representing the 2016 portion of the third round of data collection for the MEPS Panel 20 sample have been pooled with data from the first round of data collection for the MEPS Panel 21 sample (see illustration below).



The sample for the NHIS is redesigned and sample PSUs and secondary sampling units (SSUs) are newly selected about every ten years. These same sample PSUs and SSUs are then used each year for the NHIS until the next NHIS redesign. From 1995 to 2005 the NHIS used the same sample design. Thus the MEPS, which began in 1996, was based on that NHIS design through MEPS Panel 11, initiated in 2006, clustering the MEPS sample in the same general geographic areas from 1996-2006. With a new NHIS sample design in 2006, MEPS sampled households have been selected from a new set of areas for the 2007 MEPS onward. It should be noted that the fundamental structure of the 2006 NHIS sample design is very similar to the previous 1995-2005 NHIS sample design although the sample PSUs and second stage sampling units for the newest NHIS design were selected independent of the sample selection process under the previous design. There has been some overlap between the population areas covered by the sampled NHIS PSUs selected under the two designs, mostly the larger ones selected with certainty. As households selected for MEPS participation are selected from among the previous year's NHIS respondents, the MEPS Panel 12, fielded in 2007, was the first MEPS Panel based on the new NHIS sample design. As a result, the 2007 Point-in-Time (PIT) file consisted of two independent samples with MEPS Panel 11 reflecting the old design. Since then both MEPS panels have been based on the new design, including Panels 20 and 21, the MEPS panels found in this PIT file. It may be noted that this is the last year that both panels will be based on the 2006 NHIS sample design. In 2016 a new NHIS sample design will have been implemented, and MEPS Panel 22 will be based on the new design.

For both Panels 20 and 21, the sample domain "Other," which is the catchall stratum and consists mainly of households with "White" members, was partitioned into two sample domains: those households characterized as "complete household" respondents to the NHIS; and those characterized as "partial completes." "NHIS partial completes" typically have a lower response rate to MEPS and were sampled at a lower rate than "full completes" for both panels. This approach served to reduce survey costs, since the "partials" tend to have higher costs in gaining survey participation, but increased sample variability due to the resulting increased variance in sampling rates.

3.1.1 The MEPS Sampling Process and Response Rates: An Overview

Generally, a sample representing about three-eighths of the NHIS responding households is made available for use in MEPS. This was the case for Panels 20 and 21. A household consists of one or more MEPS reporting units (RUs). A member of an RU is asked to provide MEPS data for all RU members. A multi-person RU consists of people who are related (based on the MEPS definition of a family—see the discussion of family weights below for more details). A single person RU is a person living in a household with no relatives present.

A subsample of the responding NHIS households is drawn for MEPS interviewing. Because the MEPS subsampling has to be done soon after NHIS responding households are identified, a small percentage of the NHIS households initially characterized as NHIS respondents are later classified as nonrespondents for the purposes of NHIS data analysis. This actually serves to increase the overall MEPS response rate slightly since the percentage of NHIS households eligible for MEPS is slightly larger than the NHIS household-level response rate and some NHIS nonresponding households do participate in MEPS. However, as a result, these NHIS nonrespondents who are MEPS participants have no NHIS data available to link to MEPS data.

Once the MEPS sample is selected from among the NHIS households characterized as NHIS respondents, RUs representing students living in student housing or consisting entirely of military personnel are dropped from the sample. For the NHIS, college students living in student housing are sampled independently of their families. For MEPS, such students are identified through the sample selection of their parents' RU. Removing from MEPS those college students found in college housing sampled for the NHIS eliminates the opportunity of multiple chances of selection for MEPS for these students. Military personnel not living in the same RU as civilians are ineligible for MEPS. After such exclusions, all RUs associated with households selected from among those identified as NHIS responding households are then fielded in the first round of MEPS.

Table 3-1 shows the three informational components just discussed in Rows A, B, and C. Row A indicates the percentage of NHIS households eligible for MEPS. Row B indicates the number of NHIS households sampled for MEPS. Row C indicates the number of sampled households actually fielded for MEPS (after dropping the students and military members discussed above). From these numbers unweighted response rates have been computed, allowing an assessment of the propensity to participate among those RUs actually sampled for MEPS. It should be noted that the sample distribution of RUs has a disproportionately high percentage of several minorities and MEPS response rates vary by race/ethnicity.

Table 3-1. Unweighted response rates for Point-in-Time file (Panel 21 Round 1/Panel 20 Round 3)

	Panel 20	Panel 21	2016 Combined
A. Percentage of NHIS sample eligible for MEPS*	75.1%	71.2%	--
B. Number of households sampled from the NHIS	10,610	9,700	
C. Number of Households sampled from the NHIS and fielded for MEPS	10,571	9,658	
D. Round 1 – Number of RUs eligible for interviewing	11,283	10,316	
E. Round 1 – Number of RUs with completed interviews	8,287	7,674	
F. Round 2 – Number of RUs eligible for interviewing	8,554		
G. Round 2 – Number of RUs with completed interviews	7,991		
H. Round 3 – Number of RUs eligible for interviewing	8,136		
I. Round 3 – Number of RUs with completed interviews	7,743		
Overall response rates through the Spring of 2016 P20: $A \times (E/D) \times (G/F) \times (I/H)$ P21: $A \times (E/D)$ Combined: $.49 \times P20 + .51 \times P21$ * among the panels and quarters of the NHIS allocated to MEPS, the percentage of households that were considered to be NHIS respondents at the time the MEPS sample was selected	49.0% (Panel 20) through Round 3)	53.0% (Panel 21) through Round 1)	51.0%

When an RU is visited for a round of data collection, changes in RU membership are identified. Such changes include RU members who have moved to another location in the U.S., thus creating a new RU to be interviewed for MEPS, as well as student RUs. Thus, the number of RUs known to be eligible for MEPS interviewing in a given round can be determined only after data collection is fully completed. The ratio of the number of RUs completing the MEPS interview in a given round to the number of RUs characterized as eligible to complete the interview for that round represents the “conditional” response rate for that round expressed as a proportion. It is “conditional” in that it pertains to the set of RUs characterized as eligible for MEPS specifically for that round, and thus is “conditioned” on prior participation rather than representing the overall response rate through that round. For example, in Table 3-1, for Panel 21, Round 1 the ratio of 7,674 (Row E) to 10,316 (Row D) multiplied by 100 is 74.4 and represents the unweighted response rate for the round conditioned on the set of RUs characterized as eligible for MEPS for Round 1. Multiplying the percentage of the NHIS sample eligible for MEPS (Row A) by the product of the ratios for a consecutive set of MEPS rounds beginning with round one produces the overall response rate through the last MEPS round specified. (It should be noted that the number of RUs with completed interviews is slightly higher than the number of RUs receiving family weights. RUs receiving family weights must satisfy additional criteria such as participation throughout the entire period of eligibility by all key, in-scope RU members and the requirement that the RU reference person must be key.)

The overall response rate for the combined sample of Panel 21, Round 1 and Panel 20, Round 3 is obtained by taking the sum of the products of the relative sample sizes and the corresponding

overall panel response rates. The details of the process of computing the overall response rate is described below in Section 3.1.4.

3.1.2 Panel 20 Response Rates

For MEPS Panel 20 Round 10,571 households were fielded in 2015 (row C of Table 3-1), a randomly selected subsample of the households responding to the 2014 National Health Interview Survey (NHIS).

Table 3-1 shows the number of RUs eligible for interviewing in each Round of Panel 20 as well as the number of RUs completing the MEPS interview. Computing the individual Round “conditional” Response Rates as described in section 3.1.1 and then taking the product of the resulting three “conditional” round response rates and the factor 75.1 (the percentage of the NHIS sampled households eligible for MEPS) yields an overall unweighted response rate of 49.0 percent for Panel 20 through Round 3.

3.1.3 Panel 21 Response Rates

For MEPS Round 1 of Panel 21, 9,658 households were fielded in 2016 (again, found in Row C of Table 3-1), a randomly selected subsample of the households responding to the 2015 National Health Interview Survey (NHIS).

Table 3-1 shows the number of RUs eligible for interviewing (10,316) and the number completing the interview for Round 1 of Panel 21 (7,674). The overall unweighted response rate for Panel 21 through Round 1 of MEPS is thus computed as 71.2 percent times $(7,674/10,316)$, or 53.0 percent.

3.1.4 Combined Panel Response Rate

A combined response rate for the survey respondents in this data set is obtained by taking a weighted average of the panel specific response rates. Here the contribution from each panel to the average reflects the relative number of Round 1 (Panel 21) and Round 3 (Panel 20) weighted individuals in the two panels. The Panel 20 response rate was weighted by a factor of .49 while that of Panel 21 by a factor of .51. The resulting unweighted response rate for the combined panels is thus computed as $(.49 \times 49.0)$ plus $(.51 \times 53.0)$ or 51.0 percent (as shown in Table 3-1).

3.1.5 Oversampling

Oversampling was employed for selected subgroups of policy-level interest to help increase the precision of estimates associated with members of those subgroups. Before going into details, the concept of oversampling is discussed.

In a sample where all persons in a population are selected with the same probability and survey coverage of the population is high, the sample distribution is expected to be proportionate to the population distribution. For example, if Hispanics represent 15 percent of the general population, one would expect roughly 15 percent of the persons sampled to be Hispanic. However, in order to improve the precision of estimates for subgroups of a population, one might decide to select samples from those subgroups at higher rates than the remainder of the population. Thus, one

might select Hispanics at twice the rate (i.e., at double the probability) of persons not oversampled. As a result, subgroups that are “oversampled” are represented at disproportionately high rates in the sample. Sample weights help ensure that population estimates account for this disproportionate contribution from oversampled subgroups, as the base sample weights for oversampled groups will be smaller than for the portion of the population not oversampled. For example, if a subgroup is sampled at roughly twice the rate of sample selection for the remainder of the population not oversampled, members of the oversampled subgroup will receive base or initial sample weights (prior to nonresponse or poststratification adjustments) that are roughly half the size of the group “not oversampled.”

As mentioned above, oversampling a subgroup is done to improve the precision of survey estimates for that particular subgroup. The “cost” of oversampling is that the precision of estimates for the general population and subgroups not oversampled will be reduced to some extent compared to the precision one could have achieved if the same overall sample size were selected without any oversampling.

For MEPS, some of the oversampling was achieved through its linkage to the NHIS, where Hispanics, Blacks, and Asians are oversampled.

The oversampling approach for MEPS Panels 20 and 21 used the same sampling domains (strata) for subsampling among the NHIS respondents eligible for MEPS. Five domains were established in a hierarchical sequence: the first domain contained households with Asians; the second domain contained households with Hispanics not assigned to the first domain; the third domain contained households with Black members not assigned to domains one and two; the fourth domain contained those remaining households (“Other” households) characterized as “complete” for the NHIS; and the fifth domain contained all remaining “Other” households, those characterized as “partial complete” for the NHIS.

In terms of sampling rates, for Panel 20 all households in the Asian, Hispanic, and Black domains were sampled with certainty. The sampling rate was about 84 percent for the “Other complete” domain, and about 53 percent for the “Other partial complete” domain. For Panel 21 the corresponding sampling rates for all the domains except those characterized as “Other” were 1 (i.e., all households assigned to those domains were included in MEPS). The “Other, complete” domain was sampled at a rate of about 81 percent while the “Other, partial complete” domain was sampled at a rate of about 49 percent.

Within strata (domains) for both panels, responding NHIS households were selected for MEPS using a systematic sample selection procedure from among those eligible. For all but those strata involving “Others,” the selection was with certainty. Within the two strata involving “Others” (for both Panel 20 and Panel 21) the sample was selected with probability proportionate to size (pps) where the size measure was the inverse of the NHIS initial probability of selection. The pps sampling was undertaken to help reduce the variability in the MEPS weights incurred due to the variability of the NHIS sampling rates. With the subsampling, households that were oversampled for MEPS in calendar year 2016 were those responding households in the NHIS identified as having members whose race/ethnicity was Hispanic, Black, or Asian.

3.2 Sample Weights

The sample weights provided in this file can be used to produce cross-sectional estimates for the U.S. civilian, non-institutionalized population for roughly the first half of 2016 and subgroups of this population based on the sample data. Two weights are provided: a person-level weight and a family-level weight.

3.2.1 Person-Level Weight

The person-level weight variable (WGTSP13) was constructed as a composite of separate panel-specific weights. A positive composite person-level weight was assigned to all key members of the U.S. civilian, non-institutionalized population for whom MEPS data were collected, representing the corresponding U.S. population in early 2016.

For the Panel 21 Round 1 participants, the panel-specific weight reflects a number of components: the original household probability of selection for the NHIS; a factor adjusting for the proportion of the NHIS responding sample available for MEPS sampling; the oversampling of the subgroups described earlier; ratio-adjustment to NHIS national population estimates at the household level; adjustment for non-participation in MEPS at the household (occupied dwelling unit) level; and poststratification to U.S. civilian non-institutionalized population estimates obtained from March 2016 CPS data at the family and person levels.

For Panel 20 Round 3 participants, the panel-specific weight reflects the Round 1 weighting process for Panel 20 (the same approach as for Panel 21); nonresponse in Rounds 2 and 3; and person-level poststratification.

Compositing factors (the same factors used to obtain an overall response rate across panels; .49 for Panel 20 and .51 for Panel 21) were applied to the panel weights described above. These composited weights were then poststratified to control totals based on March 2016 CPS data across the same variables as for the panel-specific weights: census region, MSA status, race/ethnicity, sex, and age.

Table 3-2 shows the number of persons with person weights for each of the two panels separately as well as the combined total and the total population estimate represented by the weighted total for all persons with person-level weights. In terms of numbers of persons, there are 18,007 for Panel 20, Round 3 and 19,026 for Panel 21, Round 1. Thus, in total, there are 37,033 sample persons in the file with positive person-level weights (WGTSP13>0). The corresponding estimate for the civilian, non-institutionalized population based on summing the weights found in the variable WGTSP13 for these 37,033 persons is 317,954,243.

Table 3-2. Persons with a person weight for the 2016 Point-in-Time file

	Panel 20	Panel 21	Combined	Population estimate (weighted total of combined sample)
Number	18,007	19,026	37,033	317,954,243

A Note on Population Estimates

The 2012 Point-in-Time (PIT) PUF was the first PIT PUF to incorporate 2010 census-based population estimates from the CPS into the poststratification component of PIT weighting. CPS estimates began reflecting 2010 census based data in 2012, and the March 2016 CPS data serves as the basis for the 2016 MEPS weight calibration efforts discussed here. An article discussing the impact of this transition on CPS estimates can be found at www.bls.gov/cps/cps12adj.pdf.

Use of the updated population controls will have a noticeable effect on estimated totals for some population subgroups. The article compares some 2011 CPS estimates for those aged 16 and older “as published” with those that would have been generated had the updated population controls been used. Among the more notable increases were for the following subgroups: those aged 55 or older (about 1.3 million more, a 1.7 percent increase); those aged 16-24 (about a half million more, a 1.4 percent increase); Blacks (400 thousand more, a 1.4 percent increase); Hispanics (1.3 million more, a 3.8 percent increase); and Asians (1.2 million more, a 10 percent increase). Corresponding changes can be anticipated for MEPS estimates as a result.

3.2.2 Family-Level Weight

3.2.2.1 Definition of MEPS Families

A family unit is defined in MEPS as two or more persons living together in the same household during the reference period (in this data set, from January 1, 2016 to the date of interview) who are related by blood, marriage, or adoption (including foster children). In addition, unrelated persons who identify themselves as a family (e.g., domestic partners) are also defined as a MEPS family unit. Persons who died during the Round 1 reference period and those who left the civilian, non-institutionalized population part way through the reference period due to institutionalization, emigration, or enrollment in the military were considered to be family members. Relatives identified as usual residents of the household but who were not present at the time of the interview, such as college students living away from their parents’ home during the school year, were considered as members of the family that identified them.

3.2.2.2 Assignment of Weights

If all key, in-scope members of a family responded to MEPS for their entire period of eligibility for Panel 20, Round 3 or for Panel 21, Round 1 and if the family had a key reference person, then that family received a family-level weight (WGTRU13>0). Reporting units consisting of an individual respondent who was both key and in-scope also received a family-level weight. These single person “family” units can be included or excluded from family-level analyses at the analyst’s discretion.

Family-level weights were poststratified to figures obtained from the March 2016 CPS. The family-level poststratification reflects population distributions across family type (reference person married, spouse present; male reference person, no spouse present; female reference person, no spouse present), size of family, age of reference person, location of family (census region and MSA status), and race/ethnicity of the family’s reference person.

Table 3-3 shows the number of families with family-level weights for each of the two panels separately, as well as the combined total and the total population estimate represented by the weighted total for all families with family-level weights. Included as families in these counts are individuals living in one person RUs. There are 7,320 such families for Panel 20, Round 3 and 7,418 for Panel 21, Round 1. Thus, in total, there are 14,738 sample families in the file with positive family-level weights ($WGTRU13 > 0$). The population estimate of the number of these “family” units (families plus single person “family” units) with family-level weights containing at least one member of the U.S. civilian, non-institutionalized population is 142,070,161 based on summing the family level weights across all 14,738 MEPS families where $WGTRU13$ is positive.

Table 3-3. Families with a family weight for the 2016 Point-in-Time file

	Panel 20	Panel 21	Combined	Population estimate (weighted total of combined sample)
Number	7,320	7,418	14,738	142,070,161

It should be noted that CPS and MEPS definitions of family units are slightly different. In particular, CPS does not include foster children in families or consider unmarried persons who live together as family units. Adjustments were made in the poststratification process to help compensate for some of these differences. Again, note that MEPS population estimates have undergone some “discontinuities” as discussed earlier, as they now reflect 2010 Census data on population distributions.

3.2.2.3 Instructions to Create Family Estimates

To make estimates at the family level, it is necessary to prepare a family-level file containing one record per family. Each MEPS family unit is uniquely identified by the combination of the variables $DUID$ and $FAMID13$. Only persons with positive, nonzero family weight values ($WGTRU13 > 0$) are candidates for inclusion in family estimates. Following is a summary of steps that can be used for family-level estimation:

1. Concatenate the variables $DUID$ and $FAMID13$ into a new variable (e.g., $DUFAM13$).
2. To create a family-level file, sort by $DUFAM13$ and then subset to one record per $DUFAM13$ value by retaining only the reference person record ($RNDREF13=1$) for each value of $DUFAM13$. If the analyst chooses to eliminate single person units from family analyses, it is also necessary to exclude records where $FAMSIZ13=1$. If aggregate measures for families are needed for analytic purposes (e.g., means or totals), then those measures need to be computed using person-level information within families and attached to the family record. For other types of variables, analysts frequently use characteristics of the reference person to represent family characteristics.

3. Apply the weight WGTRU13 to the analytic variable(s) of interest to obtain national family estimates.

3.2.3 Relationship between Person- and Family-Level Weights

Some persons with positive person-level weights do not have family-level weights because at least one member of their family was a non-participant in MEPS. Others with positive person weights did not receive a family weight because the family reference person was not key. In addition, some persons with positive family-level weights do not have person-level weights because they were either non-key or a member of the military or otherwise out-of-scope during the 2016 portion of the MEPS data collection round. Analysts should include only persons with positive person-level weights for analyses focused on the civilian, non-institutionalized population or subgroups of this population. Analyses focused on members of families should include persons with positive family-level weights. Family level analyses can be undertaken as described in Section 3.2.2.3.

3.3 Variance Estimation

MEPS has a complex sample design. To obtain estimates of variability (such as the standard error of sample estimates or corresponding confidence intervals) for MEPS estimates, analysts need to take into account the complex sample design of MEPS for both person-level and family-level analyses. Several methodologies have been developed for estimating standard errors for surveys with a complex sample design, including the Taylor-series linearization method, balanced repeated replication, and jackknife replication. Various software packages provide analysts with the capability of implementing these methodologies. Replicate weights have not been developed for the MEPS data. Instead, the variables needed to calculate appropriate standard errors based on the Taylor-series linearization method are included on this point-in-time file as well as all other MEPS public use files. Software packages that permit the use of the Taylor-series linearization method include SUDAAN, Stata, SAS (version 8.2 and higher), and SPSS (version 12.0 and higher). For complete information on the capabilities of each package, analysts should refer to the corresponding software user documentation.

Using the Taylor-series linearization method, variance estimation strata and the variance estimation PSUs within these strata must be specified. The variables VARSTR and VARPSU on this MEPS data file serve to identify the sampling strata and primary sampling units required by the variance estimation programs. Specifying a “with replacement” design in one of the previously mentioned computer software packages will provide estimated standard errors appropriate for assessing the variability of MEPS survey estimates. It should be noted that the number of degrees of freedom associated with estimates of variability indicated by such a package may not appropriately reflect the number available. For variables of interest distributed throughout the country (and thus the MEPS sample PSUs), one can generally expect to have at least 100 degrees of freedom associated with the estimated standard errors for national estimates based on this MEPS database.

Prior to 2002, MEPS variance strata and PSUs were developed independently from year to year, and the last two characters of the strata and PSU variable names denoted the year. However, beginning with the 2002 Point-in-Time PUF, the variance strata and PSUs were developed to be

compatible with all future PUFs until the NHIS design changed. As discussed, this change took place in 2006, effectively changing the MEPS design beginning with calendar year 2007, where Panel 12 was based on the new NHIS design while Panel 11 was based on the old one. Thus, in order to make the pooling of data across multiple years of MEPS more straightforward, the numbering system for the variance strata has changed. Those strata associated with the new design will have four digit values while those associated with the old design will have three digit values.

For the 2007 PIT data a temporary set of variance strata and PSUs were developed for use with data collected under the new NHIS sample design. The current set of variance strata and PSUs were re-established for the 2008 PIT data, and have been carried over to the subsequent PIT files including the PIT 2016 dataset. Specifically, 165 variance estimation strata were created, each stratum with either two or three variance estimation PSUs. These have been numbered 1001-1165 for the 2016 PIT file.

Beginning with the 2002 PIT database, 203 variance strata were formed for use in developing variance estimates for all subsequent years and databases under the old design. These were numbered 1-203. For data analyses where data pooling across calendar years is limited to 2002 and later, the numbering of the variance strata and variance PSUs now permits this with no further actions needed.

If pooled analyses involve data in calendar years earlier than 2002, a pooled linkage file has been created to permit assignment of variance strata and PSU values for any person sampled under the old NHIS sample design (the one used for the NHIS from 1995-2005, and thus associated with MEPS samples for MEPS Panels 1-11). This person-level file contains variance stratum and PSU variables for all respondents participating in MEPS, along with the standard MEPS person ID variables for linking to other MEPS files. This one file contains records for each person who is on any of the MEPS full-year consolidated files. It is found on PUF Number HC-036. (A Balanced Repeated Replicate or BRR version of this file is also available. See PUF Number HC-036BRR.)

D. Variable-Source Crosswalk

SURVEY ADMINISTRATION VARIABLES

VARIABLE	LABEL	SOURCE
DUID	Dwelling Unit ID	Assigned in Sampling
PID	Person Number	Assigned in Sampling or by CAPI
DUPERSID	Person ID (DUID + PID)	Assigned in Sampling
PANEL	Panel Number	Assigned by CAPI
FAMID13	Family Identifier (Student Merged In)	CAPI Derived
RULETR13	RU Letter	CAPI Derived
RUSIZE13	RU Size	CAPI Derived
RUCLAS13	RU Fielded As: Standard, New, Student	CAPI Derived
FAMSIZ13	RU Size Including Students	CAPI Derived
REGION13	Census Region	Assigned in Sampling
RNDREF13	Reference Person	RE 42-45
RDRESP13	1st Respondent Indicator	RE 6, 8
PROXY13	Was Respondent A Proxy	RE 2
BEGRFM13	Reference Period Begin Date: Month	CAPI Derived
BEGRFY13	Reference Period Begin Date: Year	CAPI Derived
ENDRFM13	Reference Period End Date: Month	CAPI Derived
ENDRFY13	Reference Period End Date: Year	CAPI Derived
KEYNESS	Person Key Status	RE Section
INSCOP13	Inscope	RE Section
PSTAT13	Person Disposition Status	RE Section
RURSLT13	RU Result	Assigned by CAPI
RUENDM13	Date of Intv (Date Started: Month)	Assigned by CAPI
RUENDY13	Date of Intv (Date Started: Year)	Assigned by CAPI

DEMOGRAPHIC VARIABLES

VARIABLE	LABEL	SOURCE
AGE13X	Age - (Edited/Imputed)	RE 12, 57-66
DOBMM	Date of Birth: Month	RE 12, 57-66
DOBYY	Date of Birth: Year	RE 12, 57-66
SEX	Sex	RE 12, 57, 61
RACEV1X	Race (Edited/Imputed)	RE 101A
RACEV2X	Race (Edited/Imputed)	RE 101A
RACEAX	Asian Among Races Rptd (Edited/Imputed)	RE 101A
RACEBX	Black Among Races Rptd (Edited/Imputed)	RE 101A
RACEWX	White Among Races Rptd (Edited/Imputed)	RE 101A
RACETHX	Race/Ethnicity (Edited/Imputed)	RE 98A, 101A
HISPANX	Hispanic Ethnicity - (Edited/Imputed)	RE 98A-100A
HISPNCAT	Hispanic Ethnicity (Edited/Imputed)	RE 100A
MARRY13X	Marital Status - (Edited/Imputed)	RE 13, 97
SPOUID13	Spouse ID	RE 76A
SPOUIN13	Marital Status with Spouse Present	RE 76A
EDUCYR	Years of Educ When First Entered MEPS	RE 103-105
HIDEG	Highest Degree When First Entered MEPS	RE 103-105
FTSTD13X	Student Status Ages 17-23 (Edit/Imputed)	RE 11A, 106-108
ACTDTY13	Military Full-Time Active Duty	RE14, 96
HONRDC13	Honorably Discharged from Active Duty	RE18A, RE96G
REFRL13X	Relation To Ref Pers (Edited/Imputed)	RE 76A
OTHLANG	In Family with Someone Spkng Other Lang	RE 102
LANGSPK	Language Spoken at Home Other Than Engl	RE 102A
HWELLSPE	How Well Person Speaks English	RE 102B
BORNUSA	Person Born in the US	RE 102C
YRSINUS	Years Person Lived in the US	RE 102D, RE102E

HEALTH STATUS VARIABLES

VARIABLE	LABEL	SOURCE
RTHLTH13	Perceived Health Status	PE 00A
MNHLTH13	Perceived Mental Health Status	PE 00B
IADLHP13	IADL Screener	HE 1, 2, 3
ADLHLP13	ADL Screener	HE 4, 5, 6
AIDHLP13	Uses Assistive Devices	HE 7,8
WLKLIM13	Limitation in Physical Functioning	HE 9,10
LFTDIF13	Difficulty Lifting 10 Pounds	HE 11
STPDIF13	Difficulty Walking Up 10 Steps	HE 12
WLKDIF13	Difficulty Walking 3 Blocks	HE 13
MILDIF13	Difficulty Walking a Mile	HE 14
STNDIF13	Difficulty Standing 20 Minutes	HE 15
BENDIF13	Difficulty Bending/Stooping	HE 16
RCHDIF13	Difficulty Reaching Over Head	HE 17
FNGRDF13	Difficulty Using Fingers to Grasp	HE 18
ACTLIM13	Limitation Work/Housework/School	HE 19,20
WRKLIM13	Work Limitation	HE 19,20
HSELIM13	Housework Limitation	HE 19,20
SCHLIM13	School Limitation	HE 19,20
UNABLE13	Completely Unable To Do Activity	HE 21
SOCLIM13	Social Limitation	HE 22,23
COGLIM13	Cognitive Limitation	HE 24,25

EMPLOYMENT VARIABLES

VARIABLE	LABEL	SOURCE
EMPST13	Employment Status	EM 1-3; RJ 1, 6
HRWAG13X	Hourly Wage at Current Main Job (Edited)	EW section; EM 104-105, 111
HRWGRD13	Hourly Wage Round Flag	Constructed
HRWAY13	Calculation Methods for Hourly Wage	EM 104-105, 111; EW section
HOUR13	Hours Worked Per Week at CMJ	EM 104-105, 111; EW 17; RJ 1
HELD13X	Health Insurance Held From CMJ (Ed)	EM, HX, RJ and HP sections
OFFER13X	Health Insurance Offered at CMJ (Ed)	EM, HX, RJ and HP sections
NUMEMP13	Number of Employees at Location of CMJ	EM 91-92, 124; RJ 8B
SELFCM13	Self-Employed at Current Main Job	EM 5, 11, 18, 27, 40, 53

HEALTH INSURANCE VARIABLES

VARIABLE	LABEL	SOURCE
TRINW13X	PID Cov By TRICARE/CHAMPVA at Int - Edited	HX 12, 13; PR 19 - 22; HQ section; RE 14, 96A
MCARE13	PID Cov By Medicare	HX 5 – 7
MCARE13X	PID Cov By Medicare - Edited	HX 5 - 7, 10 - 15; PRIV13 and (HX 48 or (OE 10, 24, 37)); PR 7-10, 19-26
MCAID13	PID Cov By Medicaid or SCHIP	HX 10, 11, 14, 15, 18, 19; HQ section; PR 7-10, 23-26, 39-42
MCAID13X	PID Cov by Medicaid or SCHIP - Edited	MCAID13, HX 10, 11, 14, 15, 18, 19; 41-43, 45; HQ section; PR 7-10, 11-14, 23-32, 39-42
OTPUBA13	PID Cov By/Pays Oth Gov Mcaid/SCHIP HMO	HX 14, 15, 41-45; HQ section; PR 23-30
OTPUBB13	PID Cov By Oth Public not Mcaid/SCHIP HMO	HX 14, 15, 41-43; HQ section; PR 23-30
STPRG13	PID Cov By State Specific Program	HX 16-19; HQ section; PR 35-38
PUB13X	PID Cov By Public Ins - Edited	TRINW13X, MCARE13X, MCAID13X, OTPUBA13, OTPUBB13
PRIEU13	PID Cov By Priv Empl/Union Plan	HX 2-4, 21-24 48; HP, OE, HQ, EM, and RJ sections

VARIABLE	LABEL	SOURCE
PRIDK13	PID Cov By Priv DK Plan	HX 21-24 48; HP, OE, and HQ sections
PRING13	PID Cov By NonGroup Plan	HX 21-24 48; HP, OE, and HQ sections
PRIOG13	PID Cov By Oth Group Plan	HX 21-24 48; HP, OE, and HQ sections
PRIS13	PID Cov By Self-Emp-1 Ins	HX 3, 4, 48; EM, RJ, OE, and HQ sections
PRIOUT13	PID Cov By Holder Outside RU	HX 21-24 48; HP, OE, and HQ sections
PRSTX13	PID Cov By Priv Ins Through Exchange	HX03, HX23, HP04A, OE28A
PRIV13	PID Cov By Private Ins	PRIEU13, PRIDK13, PRING13, PRIOG13, PRIS13, PRIOUT13 PRSTX13
HPRIEU13	PID is Holder of Priv Empl/Union Plan	HX 2-4, 9, 11, 21-24 48; HP, OE, HQ, EM, and RJ sections
HPRIDK13	PID is Holder of Priv DK Plan	HX 11, 21-24 48; HP, OE, and HQ sections
HPRING13	PID is Holder of NonGroup Plan	HX 11, 21-24 48; HP, OE, and HQ sections
HPRIOG13	PID is Holder of Oth Group Plan	HX 11, 21-24 48; HP, OE, and HQ sections

VARIABLE	LABEL	SOURCE
HPRIS13	PID is Holder of Self-Emp-1 Ins	HX 3, 4, 9, 48; EM, RJ, OE, and HQ sections
HPRSTX13	PID is Holder of Priv Ins Exchange	HX03, HX23, HP04A, OE28A
HPRIV13	PID is Holder of Priv Ins Plan	HPRIEU13, HPRIDK13, HPRING13, HPRIOG13, HPRIS13 HPRSTX13
INSRD13X	PID is Insured – Edited	PUB13X, PRIV13

WEIGHTS VARIABLES

VARIABLE	LABEL	SOURCE
WGTS13	Person Weight	Constructed
WGTRU13	Family Weight	Constructed
VARSTR	Variance Estimation Stratum	Constructed
VARPSU	Variance Estimation PSU	Constructed