



FINAL REPORT

Technical Documentation for the Fiscal Year 2015 Supplemental Nutrition Assistance Program Quality Control Database and the QC Minimodel

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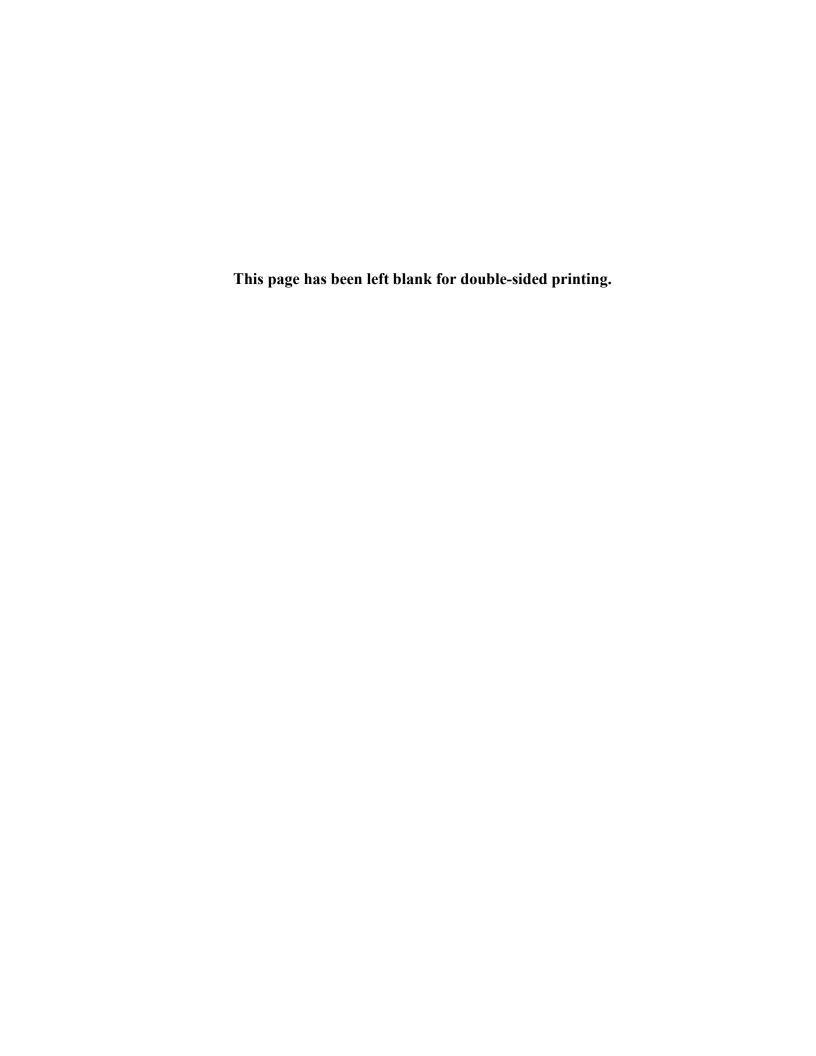
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I. INTRODUCTION

The Supplemental Nutrition Assistance Program (SNAP) is the largest domestic food and nutrition assistance program administered by the U.S. Department of Agriculture's Food and Nutrition Service (FNS), providing millions of Americans with the means to purchase food for a nutritious diet. During fiscal year (FY) 2015, SNAP served an average of 45.8 million people a month and paid out \$69.7 billion in benefits.¹

In response to legislative adjustments to program rules and changes in economic and demographic trends, the characteristics of SNAP participants and households and their levels of participation in SNAP change over time. To measure the effect of these changes on SNAP, FNS relies on data from the SNAP Quality Control (QC) database. This database is an edited version of the raw datafile of monthly case reviews conducted by State SNAP agencies to assess the accuracy of eligibility determinations and benefit calculations for each State's SNAP caseload.²

This document describes how the raw data are cleaned and edited to create the SNAP QC database. It also describes how the QC Minimodel—one of FNS's SNAP microsimulation models—uses the SNAP QC database to simulate the effect of various policy changes to SNAP on current SNAP participants.

Chapter II provides an overview of the SNAP QC System, the resulting raw datafile, and the creation of the SNAP QC database. The overview, written for a nontechnical audience, is designed to give analysts and new users of the data enough general information to analyze and interpret the results of SNAP QC data tabulations and policy change simulations from the QC Minimodel.

Chapter III describes the process for developing files for the SNAP QC database. We discuss the file development programs used to transform the raw data into the SNAP QC database, the algorithms used to edit the data for consistency, and the development of the sampling weights for the file.

Chapter IV provides a technical description of the procedures used to transform the SNAP QC database into the format required by the QC Minimodel and to document the QC-specific portions of the QC Minimodel.³

Chapter V contains the codebook for the FY 2015 SNAP QC database and explains how to use it. For each variable in the database, the codebook lists the variable name, the variable origin (whether it came from the raw datafile or was constructed), and a description (including all valid values of the variable).

¹ These estimates of 45.8 million participants and \$69.7 billion in benefits come from FNS administrative records. They differ from the other estimates in this documentation, which come from the edited SNAP QC database, because this database is adjusted to exclude receipt of benefits by ineligible households and those receiving disaster assistance.

² This report refers to the original datafile as the raw datafile and the edited version as the SNAP QC database.

³ Documentation of the generic portions of the QC Minimodel can be found in the 2011 MATH SIPP+ Microsimulation Model: Programmer's Guide, Technical Description, and Codebook (Schechter et al. 2014).

Appendix A provides an assessment of the quality of selected variables in the FY 2015 SNAP QC database. Users should read this appendix before using the SNAP QC database because it recommends against the use of some variables and cautions against the use of others because of apparent miscoding, high prevalence of missing or unknown values, or small sample sizes. Appendix B describes automated edits to the raw data. Appendix C provides information on new and changed variables on the FY 2015 SNAP QC database. Appendix D shows the derivation of monthly sampling weights used in the SNAP QC file. Appendix E lists the State and region identification codes used in the file. Appendix F contains the parameter values used to determine SNAP eligibility in FY 2015, including gross and net income screens, deductions, and maximum benefit amounts. Appendix G presents the QC review schedule—the coding form in which the raw data are originally recorded by the State QC System reviewers.

Key program changes since the previous fiscal year

In FY 2015, Pennsylvania expanded its broad-based categorical eligiblity (BBCE) policy by removing its resource test. Before May 2015, Pennsylvania had a resource limit of \$9,000 for households containing at least one elderly individual or individual with a disability and it had a \$5,500 resource limit for all other households.

Also during FY 2015, Alabama launched a medical deduction demonstration program, which uses a standard deduction amount for households with medical expenses below a specified limit. The demonstration program simplifies the application process for qualifying households and may slightly increase eligibility and benefit amounts.

In addition, the earnings deduction rate for the Minnesota Family Investment Program (MFIP) participants increased from 43 percent for most of FY 2014 to 50 percent in FY 2015.

Key changes to the FY 2015 SNAP QC database

The contents of the FY 2015 SNAP QC database are very similar to the contents of the FY 2014 SNAP QC database, with a few minor changes. First, to accommodate a very large SNAP unit, the database now includes person-level variables for up to 29 individuals rather than the previous 16. Second, we added new variables to the file, including an indicator for working individuals (WORKi); indicators for units with non-elderly individuals with disabilities (FSDIS), elderly individuals (FSELDER), and children (FSKID); and a variable for State names (STATENAME) that correspond to the Federal Information Processing Standard (FIPS) code for the state (STATE). Third, we made minor changes to the individual disability indicator (DISi) algorithm and some income editing routines; Section III.B and Appendix B provide more details about these changes.

II. OVERVIEW OF THE SNAP QC DATABASE

The SNAP QC database is an edited version of the raw datafile generated by SNAP's QC System. The SNAP QC database contains detailed demographic, economic, and SNAP eligibility information for a nationally representative sample of approximately 48,000 SNAP units. The data, produced annually, are well-suited for tabulating characteristics of SNAP units and simulating the impact on current SNAP units of various policy changes to the program. Accordingly, the SNAP QC database is the source for FNS's annual report, "Characteristics of Supplemental Nutrition Assistance Program Households," and FNS's QC Minimodel, a microsimulation model that estimates the effect of proposed changes to SNAP on current participants. In this chapter, we provide an overview of the raw datafile and the processing and edits that convert the datafile to the SNAP QC database.

A. The QC system

The raw datafile is generated from the monthly reviews of SNAP cases conducted by State SNAP agencies as part of the QC System. The primary objective of QC reviews is to assess the accuracy of eligibility determinations and benefit calculations. Participating units, or active cases, are reviewed to determine whether they are eligible for participation and receiving the correct benefit amount. Units that had their participation denied or terminated, or negative cases, are reviewed to determine whether the denial or termination was correct. The SNAP QC database is based on the sample of active cases drawn each month for the 50 States, the District of Columbia, Guam, and the Virgin Islands.

State QC reviewers review data in the active case file. They gather financial and demographic information from the sampled unit's case file, visit the household to re-interview the participants, and then determine whether the SNAP unit received the correct SNAP benefit amount. The review information is entered on a data coding form (either manually or electronically), sent to FNS's national computer center, and entered into the raw datafile. FNS regional offices conduct a Federal re-review of a subsample of each original State sample. Federal re-review data are also sent to the national computer center for entry into the raw datafile and for use in conjunction with the State review data to calculate the official payment error rate for each State. States can be sanctioned or rewarded on the basis of their official payment error rates.

Most of the data on the raw datafile are the financial and demographic information collected during the review. The authorized benefit amount and eligibility status determined by the caseworker are also on the file, along with the error amount and eligibility status determined by the reviewer. The reviewer-determined entries are defined as follows:

_

⁴ In this technical documentation, "SNAP unit" or simply "unit" refers to individuals who together are certified for and receive SNAP benefits. A household may contain multiple SNAP units and/or individuals who do not receive SNAP benefits. However, since QC sampling is done at the unit level, each record contains data on only one SNAP unit.

- If the SNAP unit was eligible and the authorized benefit amount equaled the issued benefit, then the error amount is zero and the case finding is "amount correct."
- If the SNAP unit was eligible and the authorized benefit amount varied from the issued benefit, then the difference between the two amounts is recorded as the error amount and the case finding is either "overissuance" or "underissuance." Error amounts of \$38 or less are not included in the calculation of State error rates.⁵
- If the reviewer determines that the SNAP unit was ineligible, then the issued benefit amount is recorded as the error amount and the case finding is "ineligible."

State QC reviewers also review the negative cases to decide whether proper procedures were used to deny or terminate a case. Because these cases are not participating in SNAP, they are not included in the SNAP QC database and QC Minimodel.

B. The raw datafile

While most participating SNAP units are subject to sampling in the active case file, certain types of units not appropriate for review are excluded. Specifically, the active case universe excludes the following types of cases:

- Dropped as a result of oversampling
- Listed in error as active cases, including, but not limited to:
 - Negative cases incorrectly included in the active case file
 - Cases that did not participate in SNAP for the sample month, including suspended cases and those that were eligible for zero benefits before any recoupments were made
 - Cases receiving restored benefits that were not otherwise participating
 - Cases receiving retroactive benefits for the sample month
- Receiving benefits for a disaster authorized by FNS
- Pending a hearing for an adverse action
- Under investigation for SNAP fraud (including those with pending fraud hearings)
- Where all members have died or moved outside the State
- Where no member could be interviewed because:
 - All members had been hospitalized, incarcerated, or placed in a mental institution and were expected to remain there for 95 days after the end of the sample month
 - Members could not be located

⁵ The Agricultural Act of 2014 (2014 Farm Bill) decreased the tolerance threshold from \$50 to \$37 for all active FY 2014 SNAP cases. The 2014 Farm Bill allows the threshold to be adjusted each year to account for inflation. As a result, the FY 2015 tolerance threshold was \$38.

The sampling unit within the active universe is the SNAP unit as defined in an FNS-approved State manual.

State sampling plans must conform to accepted principles of probability sampling. A State may use either a simple random sampling plan or a more complex sampling design that best meets its needs. FNS must approve sampling designs other than simple random sampling.

The standard minimum annual State sample sizes range from 300 to 2,400 reviews depending primarily on the size of the monthly participating caseload. States must use the following guidelines when determining their standard annual QC sample sizes:

- If the average monthly caseload is under 10,000, the standard minimum sample size is 300 cases per year.
- If the average monthly caseload is 60,000 or greater, the standard minimum sample size is 2,400 cases per year.
- If the average monthly caseload is between 10,000 and 60,000, the standard minimum sample size is derived by the following formula:

```
Standard minimum = 300 + 0.042 (N - 10,000), where N is the average monthly caseload.
```

A State may choose an optional minimum sample size if it agrees not to dispute later payment error rate findings and the associated sanctions on the basis of the precision of the estimates. Optional minimum sample sizes are determined as follows:

- If the average monthly caseload is under 12,942, the optional minimum sample size is 300.
- If the average monthly caseload is 60,000 or greater, the optional minimum sample size is 1,020.
- If the average monthly caseload is between 12,942 and 60,000, the optional minimum sample size is derived by the following formula:

```
Optional minimum = 300 + 0.0153 (N – 12,941), where N is the average monthly caseload.
```

In FY 2015, all States chose to use the optional minimum sample size.

C. Creation of the SNAP QC database

We create the SNAP QC database from the raw datafile by following four steps: (1) preliminary processing, (2) data editing, (3) variable construction, and (4) weighting.

1. Preliminary processing

After first converting the raw datafile into a SAS file, we generate and inspect a series of quality assurance counts and frequency distributions for the values of each variable on the file. We assign missing value codes to data that are out of range, missing from the file, or coded as unknown on the source file. We remove the following records from that file that are:

- Coded as not subject to review (REVDISP = 2), incomplete (REVDISP = 3), or deselected due to oversampling (REVDISP = 4)
- Coded with review findings of ineligible (STATUS = 4)
- Missing all data except error and status information, identified as those coded with 0 case members (CERTHHSZ = 0)
- Found by the reviewer to be eligible but not qualifying for a positive benefit or identified as those having a benefit overissuance equal to or exceeding the recorded benefit (STATUS = 2 and RAWBEN <= AMTERR)

In Table II.1, we show the number of cases dropped from the FY 2015 edited file.

Table II.1. Number and percentage of cases sampled, dropped from the edited file, and included in the edited file, FY 2015

	FY 2015 SNAP QC sample	Percentage of cases sampled	Percentage of cases subject to review
Number of cases sampled	55,508	100.0	
Cases not subject to review	2,507	4.5	
Cases deselected to correct for oversampling	0	0.0	
Cases subject to review	53,001	95.5	100.0
Incomplete cases	4,298	7.7	8.1
Cases completed	48,703	87.7	91.9
Not eligible for SNAP	370	0.7	0.7
Not eligible for a positive benefit	210	0.4	0.4
Eligible for a positive benefit	48,123	86.7	90.8
Dropped due to unresolved inconsistencies	101	0.2	0.2
SNAP units on the final file	48,022	86.5	90.6

Source: FY 2015 Supplemental Nutrition Assistance Program QC sample.

2. Data editing

Consistent measures of SNAP unit size, income, and benefit level are critical to any analysis of SNAP units. However, data for these measures are not always consistent in the raw datafile. For instance, the sum of the income of each person in the unit may not equal reported unit-level gross income. Such inconsistencies may be rooted in the initial case record information or the data entry process. In the data-editing step, we resolve the inconsistencies described below. We drop the small number of SNAP units with unresolved inconsistencies from the edited file.

The overall strategy of the editing process is to ensure that certain relationships hold for all cases. The two most basic relationships are the following:⁶

⁶ Households participating in the Minnesota Family Investment Program (MFIP) or an SSI Combined Application Project (SSI-CAP) are subject to different eligibility and benefit determination rules and have been edited accordingly.

- Net income must equal gross income minus the total deductions for which the unit is eligible, and it must not be negative.
- The SNAP benefit level must equal the maximum benefit for that unit size minus 30 percent of net income (or be set to the minimum benefit if appropriate), and it must not be negative.

In addition, several important relationships must hold for some final and intermediate variables. For example:

- Gross unit income must equal the sum of all countable person-level income amounts.
- The earned income deduction must equal the specified percentage (rounded down) of countable earned income.
- The excess shelter deduction must equal shelter costs above 50 percent of gross income minus all other deductions up to a cap. Units with elderly members or individuals with disabilities are not subject to the cap. Units with a homeless deduction will not have an excess shelter deduction.
- Total deductions must equal the sum of the following:
 - standard deduction
 - earned income deduction
 - medical deduction
 - excess shelter deduction or homeless deduction
 - dependent care deduction
 - child support expense deduction.⁷

In Chapter III, we describe the complex process by which we determine whether a case is internally consistent and, if not, perform needed edits.

3. Variable construction

We construct several variables from the reported data once the file is edited. The major classes of constructed variables are unit-level countable income variables, SNAP eligibility and benefit determination variables, and characteristics flags.

- Unit-level countable income variables. The total SNAP unit income variable for each type of income (for example, Temporary Assistance for Needy Families [TANF] or Social Security) is constructed by summing the person-level income of that type over all individuals in the SNAP unit. The total SNAP unit gross income, earned income, and unearned income variables are constructed by summing all the appropriate unit income variables.
- **SNAP eligibility and benefit determination variables.** Variables used to determine eligibility and benefits—such as SNAP unit deductions, SNAP unit net countable

⁷ In some cases, child support payments are excluded from gross income and not taken as a deduction.

income, and SNAP unit benefits—are constructed on the basis of SNAP unit countable income and unit demographic characteristics.

• Characteristics flags. Characteristics flags identify SNAP units with certain features, such as the presence of an elderly individual or an individual with a disability. In addition, data from Census files are merged to identify whether a SNAP unit resides in a metropolitan, micropolitan, or rural area.⁸

4. Weighting

We weight the observations on the raw QC file to ensure that the weighted totals match three adjusted SNAP Program Operations totals—the monthly number of SNAP units by State and stratum, the monthly number of SNAP participants by State, and the monthly total benefits issued by State. We adjust these totals by removing benefits issued in error and benefits issued through the SNAP disaster assistance program because cases with either of these circumstances are not included in the SNAP QC data. In Section III.C, we describe the derivation of the sampling weights in detail.

SNAP Program Operations totals are generated from FNS's National Data Bank and reflect actual levels of participation and benefit issuance. Information about the number of SNAP units receiving a disaster assistance benefit comes from FNS. The rates of SNAP units receiving benefits in error are estimated from the raw QC datafile. In Table II.2, we compare the QC System sample-based estimates to aggregate program participation data for FY 2015.

Table II.2. Comparison of program data to edited SNAP QC database, FY 2015

Average monthly value	Program data	Adjustments for disaster assistance ^a	Adjustments for ineligible SNAP units	Edited SNAP QC database
Number of SNAP units	22,522,261	88	229,001	22,293,171
Number of participants	45,766,672	224	582,388	45,184,060
Value of benefits	\$5,804,619,049	\$39,831	\$136,899,228	\$5,667,679,990
Average SNAP unit size	2.03	2.54	2.54	2.03
Average benefit per person	\$126.83	_	\$235.07	\$125.44
Average benefit per household	\$257.73	_	\$597.81	\$254.23

Source: FY 2015 SNAP Program Operations data and SNAP QC database.

^a Adjustments are made for units and individuals who receive disaster SNAP assistance only. Adjustments are made to benefits for disaster SNAP benefits issued to disaster SNAP units as well as replacement benefits issued to qualifying ongoing SNAP units. As a result, the average disaster SNAP benefit per person cannot be calculated from the information in this table.

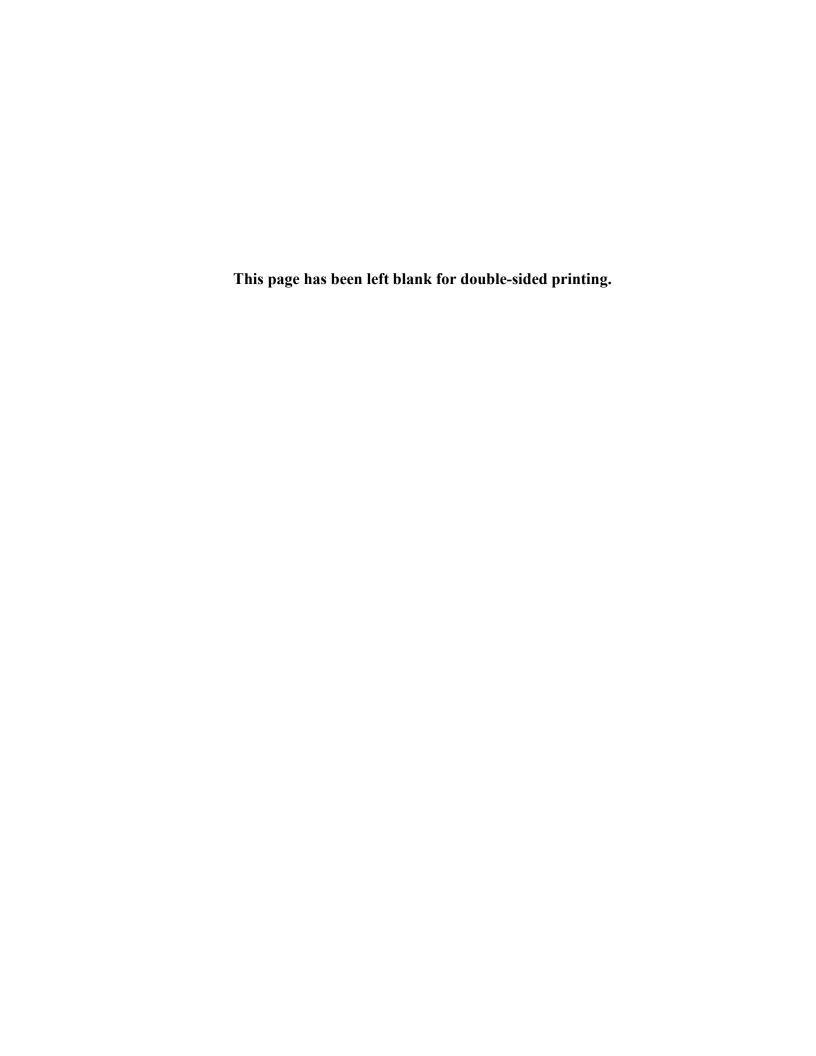
⁸ A Micropolitan Statistical Area has at least one urban cluster of at least 10,000 but fewer than 50,000 people and includes adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.

⁹ In FY 2015, about 1,100 units that were not previously on SNAP received disaster assistance in the form of SNAP benefits. These units and participating SNAP units with replacement SNAP benefits as a result of a disaster received a combined \$500,000 in benefits. As such, the adjusted total number of SNAP units and benefits are lower than Program Operations data by about 1 and 2 percent, respectively.

D. Final SNAP QC database

We create two versions of the SNAP QC database: a restricted-use version that includes all variables and a public use version that excludes REVNUM, COUNTYCD, LOCALCOD, AK_AREA (newly added in FY 2015), and URBRUR for privacy reasons. The first excluded variable is the QC review number and the other four are geographic variables. For a more detailed explanation of the variables on the file, see Chapter V.

After we develop the SNAP QC databases, we create SAS, STATA, and SPSS versions that can be used to tabulate characteristics of SNAP units and a binary file that serves as the underlying database for FNS's QC Minimodel.



III. FY 2015 SNAP QC FILE DEVELOPMENT PROCESS

A. Developing the SNAP QC file

In this chapter and in Figure III.1, we describe the programs and data used in the development of the FY 2015 SNAP QC file.¹⁰

Step 1. Obtain data

We received the data from FNS on a CD in an ASCII (or text) format.

INPUT CD File: FY2015 (ASCII file)

Record length 2,250 55,508 records

Step 2. Read in and prepare files

We converted to SAS format the specified fields from the raw FNS file, created the unique record identifier (HHLDNO), and corrected stratum codes to reflect FNS's updated specifications.

PROGRAM NAME 10 SASIFY15.SAS

INPUT FILE FY2015 (ASCII; 55,508 records)

OUTPUT FILE QCFY2015 1.SAS7BDAT (55,508 records; 721variables)

Step 3. QA the data

We ran preliminary frequencies on the SAS file and checked the frequencies for evidence of data corruption, consistency across States and months, and the extent of missing and out-of-range data. In addition, we calculated means and compared them to those for the previous year.

PROGRAM NAMES FREOS15.SAS

FREQS15A.SAS CMP1415A.SAS

INPUT FILE QCFY2015_1.SAS7BDAT (55,508 records; 721 variables)

Step 4. Set SNAP parameters

We obtained relevant SNAP values (parameters), including those for maximum and minimum benefit amounts, income screens, MFIP values, SSI Combined Application Project (SSI-CAP) values, and standard utility allowance (SUA) amounts by State. ¹¹ We entered them into a SAS format library, and used the formats for our program in Step 6.

OUTPUT PROGRAM 31 FORMAT15.SAS

¹⁰ Copies of the file development programs are available from FNS upon request.

¹¹ SUAs are standard utility allowances that States may use in place of actual utility costs to calculate a household's total shelter expenses. SUAs are mandatory in some States and optional in others.

Step 1: Obtain data FY 2015 raw datafile Step 2: Read in and prepare files 10_SASIFY15.SAS 21_UPDATE_MICRO_METRO.SAS QCFY2015_1.SAS7BDAT Step 5: Define metropolitan areas Step 3: QA the data Step 4: Set SNAP parameters 20_URBAN15.SAS O1_FREQS15SAS 02_FREQS15a.SAS O3_FREQS15a_elg.sas 04_CMP1415a.SAS 31_FORMATI 5.SAS URBAN15.SAS7BDAT Step 6: Recode variables 30_RECODE15.SAS SNAP policy 32_RECODIE_MACROS.SAS 33_RECODE_GENERAL_INCLUDE.SAS QCFY2015_2.SAS7BDAT Step 7: Stratify data 40_INTRVL15.SAS DROP15.SAS7BDAT COMPLETES 15. SAS 7 BDAT Sampling intervals INTRIVLI 5.TXT Step 8: Update stratified data INTRIVLI 5.DAT Step 9: Calculate weights 50_NLPWGT15.SAŠ Adjusted program 51_CREATE_QC_WEIGHTS.SAS operations data 52_INELIG_FSUSIZE.SAS Step 10:Add weights 60_FINAL15.SAS WEIGHT15.SAS7BDAT QCFY2015 QC_PUB_FY2015 (.SAS7BDAT,.DTA,.SAV) (.SAS7BDAT, .DTA, .SAV, .XPT)

Figure III.1. FY 2015 SNAP QC file development process

Step 5. Define metropolitan areas

We added geographic-level information to the file. Using the local agency code on the raw datafile, we assigned a county Federal Information Processing Standards (FIPS) code to each SNAP unit. We flagged any unknown local agency codes for correction or addition to the concordance of local agency codes by county and State. We then merged each unit to the 2013 Census Bureau files of metropolitan and micropolitan areas by using State and county codes. We coded units as metropolitan or micropolitan, depending on their match to one of the Census files. Those not found in either file were coded as rural, except for those with local codes that were State-wide, which we coded as missing metropolitan status. Beginning in 2014, we assigned Alaska units with missing or unknown local agency codes a metropolitan status based on the minimum benefits. We removed cases not subject to review and incomplete cases in the output files.

PROGRAM NAME	20_URBAN15.SAS	
INPUT FILES	QCFY2015_1.SAS7BDAT	(55,508 records; 721 variables)
	METRO2_13.TXT	(ASCII; 1,236 records; 3 variables) (Census 2013 Metropolitan File)
	MICRO2_13.TXT	(ASCII; 646 records; 3 variables) (Census 2013 Micropolitan File)
	FIPS_LAC.TXT	(ASCII; 5,134 records; 6 variables) (Concordance of local area codes, updated in 2015.)
OUTPUT FILE	URBAN15.SAS7BDAT	(48,703 records; 5 variables)

Step 6. Recode and standardize variables

We edited the file to resolve inconsistencies between variables within a unit and created several unit-level variables pertaining to SNAP affiliation, income deductions, shelter limit, benefit amount, assets, poverty status, and specific types of income. Unknown values (9-filled or 0 where a value should have been entered) were set to missing. The program detected inconsistencies between person-level income totals and reported totals and resolved them by using a procedure described in detail below (see Section B, Obtaining file consistency). Units meeting all the following conditions were written to the output file: (1) had a completed review, (2) found eligible by the QC reviewer, (3) contained at least one SNAP participant under review, (4) received a benefit amount of at least \$1, and (5) passed the eligibility tests, were flagged as categorically eligible, or were identified as participating in MFIP or an SSI-CAP. Meeting these conditions, together with the sample reductions in Step 5, completed the sample selection for the final datafile (48,022 records).

PROGRAM NAME	30_RECODE15.SAS	
INPUT FILES	QCFY2015_1.SAS7BDAT	(55,508 records; 721 variables)
	31_FORMAT15.SAS	(Format library)
	URBAN15.SAS7BDAT	(48,703 records; 5 variables)

OUTPUT FILES	QCFY2015_2.SAS7BDAT	(48,022 records; 2,627 variables)
	COMPLETES15.SAS7BDAT	(48,703 records; 2,629 variables)
	DROP15.SAS7BDAT	(101 records; 2,628 variables)

Step 7. Stratify data

We created a file containing State name, FIPS code, and stratum, with one record per State/stratum combination.

PROGRAM NAME	40_INTRVL15.SAS	
INPUT FILE	QCFY2015_1.SAS7BDAT	(55,508 records; 721 variables)
OUTPUT FILE	INTRVL15.TXT	(ASCII; 53 records, 4 variables)

Step 8. Update stratified data

We edited the INTRVL15.TXT file by hand to add sampling interval information (obtained from FNS) for each State/stratum combination and saved the edited file as INTRVL15.DAT. 12

INPUT FILE	INTRVL15.TXT	(ASCII; 53 records; 4 variables)
OUTPUT FILE	INTRVL15.DAT	(ASCII; 53 records, 4 variables)

Step 9. Calculate weights

As described later in Section III.C, we calculated a weight for each SNAP unit that had a complete review, excepting those units that were dropped from the edited file because of unresolved inconsistencies.

PROGRAM NAME	50_NLPWGT15.SAS	
INPUT FILES	QCFY2015_1.SAS7BDAT QCFY2015_2.SAS7BDAT INTRVL15.DAT FY15_ADJUSTED.XLSX	(55,508 records; 721 variables) (48,022 records; 2,627 variables) (ASCII; 53 records, 4 variables) (Excel spreadsheet containing FNS Program Operations data adjusted for disasters)
	COMPLETES15.SAS7BDAT DROP15.SAS7BDAT	(48,703 records; 2,629 variables) (101 records; 2,628 variables)
OUTPUT FILE	WEIGHT15.SAS7BDAT	(48,602 records; 27 variables)

Step 10. Add weights

We merged the file containing weights with the edited SNAP QC file to produce the final FY 2015 SNAP QC files. QCFY2015 is for internal use and includes all variables. QC_PUB_FY2015 is for public use and excludes REVNUM, COUNTYCD, LOCALCOD, AK AREA and URBRUR for privacy reasons.

¹² No States had a stratified sample in the FY 2015 SNAP QC file.

PROGRAM NAME	60_FINAL15.SAS	
INPUT FILES	QCFY2015_2.SAS7BDAT WEIGHT15.SAS7BDAT	(48,022 records; 2,627 variables) (48,602 records; 27 variables)
OUTPUT FILES	QCFY2015.SAS7BDAT QC_PUB_FY2015.SAS7BDAT QCFY2015.DTA QC_PUB_FY2015.DTA QCFY2015.SAV QC_PUB_FY2015.SAV QC_PUB_FY2015.XPT	(48,022 records; 1,313 variables) (48,022 records; 1,306 variables) (48,022 records; 1,313 variables) (48,022 records; 1,306 variables) (48,022 records; 1,313 variables) (48,022 records; 1,306 variables) (48,022 records; 1,306 variables)

After developing the final QCFY2015 SNAP QC files, we create two hierarchical binary files using this file:

1. The file MATHPC.BIN is generated for the QC Minimodel with SAS missing values coded to negative values.

PROGRAM NAME	MINIQC15.SAS	
INPUT FILE	QCFY2015.SAS7BDAT	(48,022 records; 1,313 variables)
OUTPUT FILE	MATHPC.BIN	(48,022 unit records; 106,115
		person records)

2. The file QC2TPL15.BIN is used to produce tables with Table Producing Language (TPL) software. These tables are included in the annual Characteristics Reports. The program also creates a codebook for the TPL software. SAS missing values were coded to negative values. Additional unit-level recodes were created for use in table generation.

PROGRAM NAME	20_QC2TPL15.SAS	
INPUT FILE	QCFY2015.SAS7BDAT	(48,022 records; 1,313 variables)
OUTPUT FILES	QC2TPL15.BIN	(48,022 unit records; 106,115 person records)
	QC2TPL15.CBK	r · · · · · · · · · · · · · · · · · · ·

B. Obtaining file consistency

As mentioned under Step 6 above, we performed selected editing of the reported data. We followed the procedures below to obtain a high degree of consistency between related variables in the data while maintaining the integrity of the database. Some of the procedures do not apply to SNAP units in MFIP or participating in an SSI-CAP. We present the editing procedures for MFIP and SSI-CAP units after outlining the general procedure. For details on specific datacleaning procedures, please refer to Appendix B.

1. Standard editing procedures

Step 1. Eliminate case records that are incomplete or are for SNAP units that do not qualify for a benefit.

- Those with incomplete reviews (REVDISP not equal to 1)
- Those with no case members (CERTHHSZ = 0)
- Those found ineligible by the QC reviewer (STATUS = 4)
- Those with an overissuance that is equal to or greater than the reported benefit (STATUS = 2 and RAWBEN <= AMTERR)
- Those with unknown eligibility (STATUS is missing)

Step 2. Get a preliminary count of the number of people in the SNAP unit.

Step 3. Recode missing information to SAS missing values.

- Any field coded with an out-of-range value is set to missing value of .A (for example, a 0 in the SNAP case affiliation code).
- Any field coded as unknown (filled with 9s) is set to missing value of .B. The one exception is the SNAP case affiliation code (FSAFILi) where the 9s remain to signify a valid person.
- Any constructed field that cannot be determined because of missing values is set to missing value of .C (for example, total assets).
- For units participating in months for which they are not certified, CERTMTH is set to missing value of .D.
- For MFIP and SSI-CAP units, variables not relevant in the benefit determination are set to missing value of .E.
- **Step 4. Finalize the unit size.** We use the SNAP case affiliation flags for each person in the unit to construct a measure of the number of members in the SNAP unit under review. A person is considered a member of the SNAP unit if his or her affiliation code (FSAFILi) is equal to 1.
- **Step 5. Determine unit totals and indicator variables.** Examples of totals include the number of elderly individuals (FSNELDER), children (FSNKID), and non-elderly individuals with disabilities (FSNDIS). Examples of indicators include citizenship status of the unit head (NONCIT_HEAD) and categorical eligibility status (CAT_ELIG) of the unit.

Step 6. Initialize FY 2015 values (for example, standard deduction, shelter cap, maximum benefit).

Step 7. Reconcile duplicated amounts of wages (WAGESi), Social Security income (SOCSECi) and Supplemental Security Income (SSIi). If a unit contains multiple individuals with equivalent WAGESi and either equivalent SOCSECi amounts or SSIi amounts, we check whether the sum of unduplicated income amounts is equal to RAWGROSS. If so, we assume that the QC reviewer incorrectly reported each individual's income for all members of the unit.

We try to reconcile the duplicated amounts by using work registration status (WRKREGi) and age. For example, if two non-elderly members have identical WAGESi and SOCSECi, and one is coded as being exempt from work registration due to a disability and the other is not, we assign the SOCSECi income to the former (and set WAGESi to 0) and the WAGESi income to the latter (and set SOCSECi to 0).

Step 8. Calculate earned and unearned incomes for those inside the unit and others in the household by adding up person-level income amounts.

- Earned income variables are wages (WAGESi), self-employment income (SLFEMPi), and other earned income (OTHERNi).
- Unearned income variables include:
 - contributions (CONTi)
 - court-ordered child support payments (CSUPRTi)
 - deemed income (DEEMi)
 - State diversion payments (DIVERi)
 - educational grants/scholarships/loans (EDLOANi)
 - earned income tax credit income (EITCi)
 - energy assistance income (ENERGYi)
 - foster care payments (FOSTERi)
 - State general assistance (GAi)
 - other government benefits (OTHGOVi)
 - other unearned income (OTHUNi)
 - Social Security income (SOCSECi)
 - Supplemental Security Income (SSIi)
 - TANF (TANFi)
 - unemployment compensation (UNEMPi)
 - veterans' benefits (VETi)
 - workers' compensation (WCOMPi)
 - subsidized earned income (WGESUPi)

Step 9. Reconcile reported person-level income amounts with reported unit-level income and deduction variables. All household members reported on the file (not just unit members) are initially considered in the process of reconciling person and unit-level income. Any person-level income amount that is found to not count toward the benefit calculation is set to 0. To reconcile any differences between the person and unit-level income amounts, we perform the following steps sequentially, and stop when inconsistencies are resolved:

9a. **Does the child support income match the child support deduction?** For units where child support income and child support expenses are the same, we determine if the exclusion of either will allow us to replicate the reported unit-level gross income or net income. We set to 0 any child support income or deductions that are not used. ¹³

¹³ States may exclude child support expenses from gross income rather than consider them a deduction. For units excluding it from gross income, we check that gross income minus child support expenses is at or below 130 percent of the poverty guidelines.

- 9b. **Does the sum of person-level income match the unit-level gross income?** We compare earned and unearned income for the unit and the household to see if any combination is equal to the reported unit-level gross income. We check in the following order: (1) all unit income; (2) all unit income plus unearned income from outside the unit; (3) all unit income plus earned income from outside the unit; and (4) all household income. ¹⁴ At each stage, we check to see if child support expenses have been excluded from the unit-level gross income. If person-level sums and the unit-level gross income are equal at any stage, we set any income not used to 0.
- 9c. Does the sum of person-level unearned income and earnings implied by the earnings deduction match the unit-level gross income? We compare unearned income for the unit and the household plus the amount of earnings implied by the reported earnings deduction with the reported unit-level gross income to see if any combination is equal. We check in the following order: (1) unit unearned income, and (2) household unearned income. At each stage, we check to see if child support expenses have been excluded from the unit-level gross income. If reconciliation is made, we adjust earnings to satisfy the earnings deduction (adjusting existing earnings proportionately or, in the event of no person-level earnings, adding to the householder's other earned income). We set all other income to 0.
- 9d. **Is gross income not recorded?** If the reported unit-level gross income is 0 and the benefit is less than the maximum benefit for a unit of this size, we set the unit-level gross income to the sum of the person-level income values for the household.
- 9e. **Is the benefit consistent with having no income**? If the reported unit-level gross income is 0 and the benefit is equal to the maximum benefit for a unit of this size, we set the personlevel income values for the household to 0.
- 9f. **Is gross income unreasonably high?** If the reported unit-level gross income is out of range (in this case, greater than three times the net income screen for a unit of this size) and no person-level income value is out of range, we set the unit-level gross income to the sum of the person-level income values for the household.
- 9g. Is person-level income consistent with deductions and unit-level net income? We compare combinations of earned and unearned income for the unit and the household less calculated total deductions to the reported unit-level net income. The calculated total deductions vary for each combination because the shelter deduction depends on household income while the earnings deduction depends on total earnings. We check in the following order: (1) all unit income less total deductions, (2) all unit income plus unearned income from outside the unit less total deductions, (3) all unit income plus earned income from outside the unit less total deductions, and (4) all household income less total deductions. If reconciliation is made, we set any income types not used to 0 and recalculate unit-level gross income.
- 9h. Are person-level unearned income and earnings implied by the earnings deduction consistent with deductions and unit-level net income? We check unearned income for the unit and the household plus the amount of earnings implied by the reported earnings deduction to see if any combination equals the reported unit-level net income plus calculated

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¹⁴ "Unit" income is income associated with participating household members. We allow a \$5 difference to account for potential rounding differences.

- total deductions. We check in the following order: (1) unit unearned income, and (2) household unearned income. If reconciliation is made, we adjust earnings to satisfy the earnings deduction (adjusting existing earnings proportionately or, in the event of no person-level earnings, adding to the householder's other earned income). We set any income types not used to 0.
- 9i. **Do unit-level income values agree with no errors reported?** If no errors are reported (AMTERR = 0) and the unit-level income values agree (gross income = net income + total deductions), we adjust the person-level income to agree with the unit-level values. We first adjust person-level earnings proportionately to agree with the earnings deductions. If any further adjustments are needed, we adjust person-level unearned income values proportionately. However, we only adjust SSI values if SSI is the only unearned income or the amount of other unearned income is not enough to reconcile the unit.
- 9j. **Do earnings agree with the reported earned income deduction, but exceed the reported unit-level gross income?** If earnings agree with the reported earned income deduction but exceed the unit-level reported gross income, we recalculate the gross income, setting to 0 any person-level income not used. If unit earnings agree, we set all income outside the unit to 0. If household earnings agree, we set any unearned income outside the unit to 0. Beginning in FY 2015, if the unit reports no earnings, has deemed income (FSDEEM), has an earned income deduction equal to 20 percent of FSDEEM (within \$5), and includes an individual outside the unit, we change the deemed income to wages. If the deemed income was reported by someone outside the unit, the wages remain with that person. If the deemed income was reported by someone inside the unit, we move the wages to someone outside the unit. If more than one individual is outside the unit, we give it to the first individual outside the unit that satisfies one of the following conditions (in order): individual is the household head (RELi=1), spouse of household head (RELi=2), first non-elderly adult, first individual.
- 9k. Are person and unit-level income amounts still inconsistent? If we still have not resolved incomes, we make the person-level incomes equal the reported unit-level gross income as follows. If the reported earned income deduction indicates zero earnings, we set to 0 any person-level earnings. If the reported earned income deduction indicates earnings no greater than the reported gross income, we proportionately adjust all person-level earnings to satisfy the earned income deduction. Otherwise, we proportionately adjust all person-level earnings. If additional adjustments are needed, we proportionately adjust all person-level unearned income values.
- Step 10. Calculate final SNAP unit income totals (for example, gross, net, TANF, and SSI).
- Step 11. Create remaining flags and variables.
- Step 12. Calculate the benefit.
- Step 13. If the calculated benefit does not match the raw benefit, adjust the dependent care deduction, excess shelter deduction, or medical expense deduction if doing so results in a matching benefit. In some SNAP units, we are able to reconcile initial differences between the calculated benefit and the raw benefit by performing the following steps sequentially and stopping when inconsistencies are resolved:

- 13a. **Does the calculated benefit match the raw benefit?** We define a SNAP unit as having a matching benefit if it meets one of the following conditions:
 - 1. QC reviewers recorded a payment error and (1) the calculated benefit is within \$5 of the raw benefit adjusted for the error amount, or (2) the calculated benefit is within \$5 of the unadjusted raw benefit, and the error element is not indicated to be the dependent care deduction, the shelter deduction, or the standard utility allowance.
 - 2. QC reviewers recorded no payment errors and the calculated benefit is within \$5 of the raw benefit.
- 13b. Does adjusting the dependent care deduction result in a matching benefit? If a unit has a dependent care deduction that is not consistent with dependent care costs, we make the deduction match the expenses if, as a result of doing so, one of the following conditions is met:
 - 1. QC reviewers recorded a payment error and the calculated benefit is within \$5 of the raw benefit adjusted for the error amount.
 - 2. QC reviewers recorded no payment errors and the calculated benefit is within \$5 of the raw benefit.

For each condition, we check with and without allotment adjustments.

- 13c. **Does adjusting the shelter deduction result in a matching benefit?** We try setting the amount of utility expenses equal to an SUA amount or to 0. ¹⁵ We try different SUA amounts in the following order: (1) HCSUA, (2) LUA, (3) utilities equal 0, (4) telephone allowance, and (5) a single-element SUA. We set the amount of utility expenses equal to an SUA amount or to 0 if, as a result, one of the following conditions is met:
 - 1. QC reviewers recorded a payment error and the calculated benefit is within \$5 of the raw benefit adjusted for the error amount.
 - 2. QC reviewers recorded no payment errors and the calculated benefit is within \$5 of the raw benefit.
 - 3. QC reviewers recorded no payment errors and the calculated shelter deduction is within \$5 of the raw shelter deduction.
 - 4. For SNAP units in New York, QC reviewers recorded no payment errors, utilities equal the HCSUA, and the unit is coded as using an HCSUA.¹⁶

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¹⁵ Many States employ more than one SUA to accommodate units with different types of utility expenses. The Heating and Cooling SUA (HCSUA) generally includes all utilities, including telephone service. The Lower Utility Allowance (LUA) is used for units that do not have heating and cooling expenses separate from rent, but have at least two other utility expenses. The LUA generally includes all other utilities, including telephone service. A telephone allowance is used for units with telephone expenses but without any other utility expenses. Some States also use a one-utility standard, for units with a single utility expense such as electricity. In addition, a few States use combinations of individual standards for different utility expenses. Hawaii, for example, employs individual utility standards for electricity, telephones, sewage, trash, and water.

¹⁶ New York's computer system automatically generates an SUA for certain units. Consequently, we do not require a matching net income or a matching shelter deduction for New York SNAP units, as long as the unit is coded as using an HCSUA.

For each condition, we check with and without allotment adjustments. Appendix F, Table F.7, provides FY 2015 SUA values by State.

- 13d. Does setting the medical deduction to 0 for a medical deduction demonstration participant result in a matching benefit? For participants in medical deduction demonstration States, ¹⁷ we set the medical deduction, medical expenses, and the medical deduction demonstration flag to 0 if, as a result, one of the following conditions is met:
 - 1. QC reviewers recorded a payment error and the calculated benefit is within \$5 of the raw benefit adjusted for the error amount.
 - 2. QC reviewers recorded no payment errors and the calculated benefit is within \$5 of the raw benefit.
- 13e. **Redo the income reconciliation, if necessary.** If we modified a deduction to match the computed benefit (Steps 13b, 13c, or 13d) and used deductions in the income reconciliation (Step 9), then we redo the income reconciliation with new deduction values, repeating all steps beginning with Step 9.
- Step 14. Drop units whose calculated benefit is less than \$1.

Step 15. Perform automated edits to reconcile remaining inconsistencies. Appendix B provides details.

Step 16. Update categorical eligibility. A unit is categorically eligible for SNAP if any of the following is true:

- The QC reviewer recorded the unit as categorically eligible.
- The unit meets the standards for expanded categorical eligibility in their State. (See Appendix B for information on State expanded categorical eligibility policies).
- The unit is pure cash public assistance (PA); that is, either (1) everyone in the unit has person-level income from TANF, GA, or SSI, (2) the unit has TANF income and every adult has person-level income from TANF, GA, or SSI, or (3) the unit contains only children and at least one has person-level income from TANF. Because TANF income is not reported on the file for the vast majority of MFIP units, we code all MFIP units as pure PA.

Step 17. Determine eligibility. We assess whether each unit would pass the applicable asset and income tests.

¹⁷ By the end of FY 2015, medical deduction demonstrations were operating in Alabama, Arkansas, Idaho, Illinois, Iowa, Kansas, Massachusetts, Missouri, New Hampshire, North Dakota, Rhode Island, South Dakota, Texas, Vermont, Virginia, and Wyoming.

- Units without an elderly member or individual with a disability must have a monthly gross income at or below 130 percent of the poverty guidelines (Appendix F). 18
- Units must have a net monthly income at or below 100 percent of the poverty guidelines (Appendix F). 19
- Units without an elderly member or individual with a disability must have total countable assets of \$2,000 or less. Units with an elderly member or individual with a disability are allowed up to \$3,250 in countable assets. (See next section for exceptions.)

We retain on the file only units that are either categorically eligible or pass the applicable income and asset tests.

2. State-variations to editing procedures

Below, we detail the State-specific editing procedures that we use to model State SNAP rules. These rules include higher asset limits (Section 2a), MFIP (Section 2b), SSI-CAP with standard benefits and standard shelter expenses (Section 2c), and medical deduction demonstrations (Section 2d).

a. Higher asset limits

In FY 2015, three States (Idaho, Michigan, and Texas) allowed all SNAP units to have up to \$5,000 in countable assets based on the State's BBCE policy.

b. Minnesota Family Investment Program (MFIP) units

MFIP is Minnesota's TANF program, open to low-income families with children. MFIP calculates participants' food assistance and cash assistance benefits together; consequently, the SNAP benefit calculation differs from the Federal formula. Both the maximum food assistance portion and maximum cash assistance portion of the MFIP benefit are based on unit size and are higher for families with earnings (see Table F.8). To calculate the benefits, countable income is subtracted from the combined maximum food portion and cash portion, or the "transitional standard." If a unit has earned income, an earnings deduction is applied and the remaining countable income is subtracted from the "family wage level," which is 10 percent higher than the transitional standard. If the total benefit amount is less than or equal to the maximum food portion, the unit receives only food assistance. If the benefit is greater than the maximum food portion, the unit receives the remainder of the benefit as cash assistance. MFIP units receive no income deductions other than the earnings deduction. The earnings deduction rate for MFIP participants was 50 percent in FY 2015.

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¹⁸ States may exclude child support expenses from gross income rather than consider them a deduction. For units excluding it from gross income, we check that gross income minus child support expenses is at or below 130 percent of the poverty guidelines.

¹⁹ This test is not performed on SNAP units identified as participating in MFIP or an SSI-CAP demonstration in a State using standard benefits.

²⁰ More information is available on Minnesota's Department of Human Services website (http://www.dhs.State.mn.us/).

Because cash TANF income for MFIP units is not used in the SNAP benefit calculation, TANF receipt is not recorded on the QC data for the vast majority of units. However, we code all MFIP units as pure PA. It is important to note that we do not calculate the TANF benefit (the cash portion) after we calculate the SNAP portion.

Below, we describe the calculation of the food portion of the benefit and differences in the general editing procedures that reconcile unit-level income with person-level income. (See Appendix F for FY 2015 cash and food portion values.)

- 1. **Flag units that are MFIP participants.** Recognizing that not all MFIP participants receive a cash benefit, we first attempt to identify MFIP-participating units. We flag units in Minnesota as MFIP participants if they have one of the following characteristics:²¹
 - The unit has person-level TANF income for SNAP unit members, unless the SNAP benefit on the raw datafile appears to have been calculated using regular SNAP rules.
 - The unit has children and the benefit, adjusted for errors, matches the MFIP table of benefits for this unit size
 - The unit has children, positive person-level earnings, and a positive reported earned income deduction, where the reported earned income deduction was 50 percent in October 2014 through September 2015 of the person-level earnings.
- 2. Reconcile reported person-level income amounts with reported unit-level income and deduction variables. The procedure for reconciling person-level income amounts with unit-level income and deductions is the same as for all other SNAP units except in the following cases:
 - We begin reconciling person-level income to unit-level gross income by excluding TANF from unearned income. At each step in reconciling to unit-level gross income described above, if person-level incomes with TANF excluded do not equal the unit-level gross income, we try including TANF income to see if its addition allows us to reconcile to unit-level gross income.²² The final calculated gross income includes any TANF income initially included on the raw datafile.
 - We do not attempt to reconcile MFIP participants' person-level income with reported unit-level net income because net income is not used in the same way for the MFIP benefit as it is in the Federal program. We code the calculated net income variable as missing for all MFIP units.
- 3. **Calculate the earned income deduction.** For MFIP units, we calculate the earned income deduction as 50 percent of earnings in October 2014 through September 2015.

²¹ MFIP's unit composition rules differ from those under the regular SNAP. Specifically, SSI and TANF recipients living in the same household are treated as separate SNAP units. Consequently, if a Minnesota unit of more than one person had both SSI and TANF income, we set the affiliation code of the SSI recipient to unknown (99).

²² With the cash portion of the benefit calculated at the same time as the food portion of the benefit, we do not expect TANF income to be included in a unit's total gross income. However, in some unit records, TANF income is included and we accept it as verification that the recorded gross income is correct.

- 4. **Calculate the final deductions.** We code all deductions except the earned income deduction and total deduction as missing (.E) for MFIP participants.
- 5. **Food benefit calculation.** We determine the benefit depending on unit characteristics:
 - If the unit has no income, then the benefit is the food portion for the unit size.
 - If the unit has only earned income, the benefit is the minimum of the food portion and the difference between the family wage level (the income threshold for units with earnings) and net earnings, but never less than 0.
 - If the unit has only unearned income, the benefit is the minimum of the food portion and the difference between the transitional standard (the income threshold for units without earnings) and net unearned income, but never less than 0.
 - If the unit has both earned and unearned income, we subtract net earned income from the family wage level and compare the difference to the transitional standard. We then subtract unearned income from the smaller of the two (to ensure that the wages were high enough to merit the full increase to the family wage level). The benefit amount is the minimum of this difference or the food portion, but never less than 0.
 - For one- and two-person SNAP units, we set the benefit amount to the higher of the calculated benefit or the minimum Federal SNAP benefit.

c. SSI-Combined Application Project (SSI-CAP) units

In FY 2015, 17 States—Arizona, Florida, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Mississippi, New Jersey, New York, North Carolina, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, and Washington—had SSI-CAP demonstrations. In addition, one State (New Mexico) had ongoing SSI-CAP units even though the State discontinued its SSI-CAP demonstration in March 2014.²³ These demonstration projects aim to streamline procedures for providing SNAP benefits to certain units eligible for both SNAP and SSI. Most provide participants with a standard benefit, while three provide a standard shelter expense. SSI-CAP participation in these States is generally limited to one-person elderly units with SSI and no earned income.

In this section, we describe the 18 programs and our procedures for identifying and editing SSI-CAP units for the SNAP QC database. Most of the SSI-CAP units identified have reported data that are consistent with program rules. In some cases, however, we identify units as participating through an SSI-CAP even though some of their reported data is inconsistent with program rules. We flag SSI-CAP units with consistent data as SSI_CAP = 2; those with some inconsistent data as SSI_CAP = 3. Beginning in FY 2015, we modeled State opt-out rules by setting SSI_CAP = 0 for potential SSI-CAP units with reported data that are inconsistent with some SSI-CAP program rules and high reported medical expenses (FSMEDEXP > \$200).

²³ New Mexico SSI-CAP households may remain on the program through their certification period. The last New Mexico SSI-CAP benefits will be issued in February 2017.

3. SSI-CAP programs with a standard benefit

The States listed in Table III.1 operate programs that provide participants with a standard "high" or "low" benefit, based on whether participants' shelter expenses fall above or below a State-determined threshold. Since net income and deductions are not used in calculating benefits for SSI-CAP households, we set the final values of these variables to missing (.E).²⁴ More specifically, the variables set to missing for SSI-CAP participants in States with standard SSI-CAP benefits include:

- Net income (FSNETINC)
- Total deductions (FSTOTDED)
- Standard deduction (FSSTDDED)
- Medical deduction (FSMEDDED)
- Earned income deduction (FSERNDED)
- Dependent care deduction (FSDEPDED)
- Child support expense deduction (FSCSDED)
- Homeless deduction (HOMELESS DED)
- Excess shelter deduction (FSSLTDED)
- Standard utility allowance (SUA1 and SUA2)

²⁴ The raw variables indicating the actual costs are usually retained.

Table III.1. SSI-CAP programs with standard benefits

		Unit		Allowed		Benefit
State	Start date	composition	Age	income	Shelter amounts	calculation
Arizona (AZSNAP)	February 2009	Living alone	65 or older	Unearned	\$0 to 99; \$100 to 199; \$200 to 299; \$300 or more	Table F.9
Kentucky (KYSAFE)	2007	Living alone or married	60 or older	Earned and unearned	One person: Less than \$200; \$200 or more Two people: Less than \$200; \$200 or more	Table F.10
Louisiana (LaCAP)	2007	Living alone	60 or older	Earned and unearned	\$0 to 100; \$101 to 399; \$400 to 699; \$700 or more	Table F.11
Maryland (MSNAP)	July 2010	Living alone	60 or older	Unearned	Less than \$506 \$506 or more	Table F.12
Michigan (MiCAP)	April 2009	Living alone	18 or older	No income	Less than \$1,000 \$1,000 or more	Table F.13
Mississippi (MSCAP)	October 2001*	Living alone	No age requirement	Unearned	SSI only: Low/high shelter SSI and other unearned income: Low/high shelter	Table F.14
New Jersey ¹ (NJ SNAS)	May 2009	Living alone	65 or older	Unearned	Less than \$315 \$315 or more	Table F.15
New Mexico (NMCAP)	June 2009	Living alone or married	22 or older	Unearned	Less than \$315 \$315 or more	Table F.16
New York (NYSNIP)	March 2003*	Living alone	No age requirement	Earned and unearned	Gross income minus SSI < \$87: Positive utility costs (high/low rent), no utility costs (high/low rent), no shelter costs Gross income minus SSI >= \$87: Positive utility costs (high/low rent), no utility costs (high/low rent), no shelter costs	Table F.17
North Carolina (NCSNAP)	August 2005	Living alone	65 or older	Earned and unearned	Less than \$150 \$150 or more	Table F.18
Pennsylvania (PACAP)	2007	Living alone	18 or older	Unearned	SSI only: Low/high shelter SSI and other unearned income: Low/high shelter	Table F.19
South Carolina (SCCAP)	October 1995*	Living alone	No age requirement	Unearned	SSI only: Low/high shelter SSI and other unearned income: Low/high shelter	Table F.20
South Dakota (SD IN)	January 2010	Living alone or married	18 or older	Earned and unearned	No earnings: Individuals or couples with high/low shelter expenses and medical expenses over \$35 or \$35 or less Earnings: Individuals or couples with high/low shelter expenses and medical expenses over \$35 or \$35 or less	Table F.21
Texas ¹	September 2002*	Living alone or married	50 or older	Earned or unearned	Less than \$289 \$289 or more	Table F.22
Virginia	August 2006	Living alone	65 or older	Unearned	Less than \$500 \$500 or more	Table F.23

^{*} We began modeling the SSI-CAP program in FY 2004.

¹ Although the FY 2015 SNAP QC data contain households that meet the State's SSI-CAP composition criteria, none of them had a reported benefit equal to one of the program's standard benefit amounts. Therefore, the FY 2015 SNAP QC data do not contain any households flagged as participating in this State.

We use the following process to identify, recode, and assign benefits to households participating in standard benefit SSI-CAP programs:

Identifying units. We identify as SSI-CAP participants all individuals meeting the eligibility criteria, outlined for each State in Table III.1 with a recorded benefit adjusted for errors equal to any of the SSI-CAP standard benefit amounts for that State (see Appendix F, Tables F.9-F.23).

Recodes for units. In addition to setting calculated net income and all calculated deduction variables to missing, if the sum of individual incomes does not equal the raw gross income, we set the sum of individual incomes equal to the (RAWGROSS) by adjusting individual incomes proportionately, as necessary.

Benefit calculations for units. We set the final calculated benefit equal to the standard SSI-CAP benefit corresponding to the unit's rent/mortgage expenses (RENT) value or total shelter expenses (FSSLTEXP) and unit size.

Table III.2 identifies States with alternate or specific characteristics for identifying, recoding, and calculating benefits for SSI-CAP units.

Table III.2. States with special rules for identifying, recoding, and calculating benefits for SSI-CAP units

State	Identifying units	Recodes for units	Benefit calculations
Arizona	X		
Kentucky	X		
Louisiana	X		
Mississippi	X	X	X
New Jersey	X		
New Mexico	X		
New York	X		X
Pennsylvania			X
South Carolina	X	Χ	X
South Dakota	X		X
Texas	X	X	
Virginia	X		

Identifying units

In addition to the criteria listed in III.1, we identify as SSI-CAP participants units with a certification period of 24 months in New Jersey; 36 months in Arizona, Kentucky, and Virginia; and 36 to 39 months in Louisiana.

In New York, the certification period for NYSNIP is four years with interim contact at the end of two years. We identify as NYSNIP participants one-person units that receive SSI benefits and belong to one of the following groups: ^{25, 26}

- Units with a recorded benefit adjusted for errors that matches an NYSNIP benefit, and the benefit amount is consistent with the presence of unit income other than SSI, adjusting for the NY SSI supplement of \$87
- Units with a recorded benefit adjusted for errors that matches an NYSNIP benefit and medical and shelter deductions are both coded as 0
- Units with a certification period exceeding four years

Married couples in Kentucky, New Mexico, and South Dakota may participate in SSI-CAP, but each individual must meet the eligibility criteria and be treated as a member of the same SNAP unit. Only married couples in which both individuals are SNAP participants and report receiving SSI benefits are identified as SSI-CAP participants.

In Texas, at least one person must be age 50 or older and receiving SSI benefits. SNAP-CAP treats elderly SSI participants independently of other household member. All other household members apart from the first elderly SSI participant are edited to be outside of the unit.

QC reviewers in Mississippi and South Carolina attempt to work backwards from the standard benefit to make income and deductions consistent with the benefit for MSCAP and SCCAP participants. A majority of MSCAP and SCCAP units follow a consistent pattern in terms of income and recorded shelter expenses. Additional units follow the same pattern closely but not exactly (see Appendix F, Table F.14 for MSCAP benefits and income patterns and Table F.20 for SCCAP benefits and income patterns). If one of the following conditions is true, we flag as MSCAP or SCCAP participants one-person units that report receiving SSI benefits and have no reported earned income:

- The recorded benefit adjusted for errors equals an MSCAP or SCCAP standard benefit, and the recorded gross income or recorded net income is consistent with that benefit according to the pattern followed in most units (allowing the recorded utility amount for MSCAP or rent/mortgage amount for SCCAP to be inconsistent).²⁷
- The recorded benefit adjusted for errors equals a standard benefit, and the recorded utility amount equals the MSCAP SUA or standard rent/mortgage amount for SCCAP (allowing the recorded gross and net income to be inconsistent).
- The recorded utility amount equals the MSCAP SUA, or the recorded rent/mortgage amount equals the standard rent/mortgage amount for SCCAP, and the recorded gross

²⁵ New York requires NYSNIP participants to be living alone (not just forming one-person SNAP units) and provides data on the QC datafile that is sufficiently detailed for us to identify households consisting of just one person.

²⁶ Because so few NYSNIP eligible units have allotment adjustments, we do not check for units where the recorded benefit plus or minus the allotment adjustment would equal an NYSNIP standard benefit.

²⁷ If the recorded benefit equals the minimum benefit, we require both gross income and net income to be consistent with the pattern.

income or recorded net income equals one of the income amounts consistent with the pattern (allowing the benefit to be inconsistent). ²⁸

Recodes for units

In Mississippi and South Carolina, we set calculated net income and all calculated deduction variables to missing as described earlier, and perform the following recodes for units identified as MSCAP or SCCAP participants:

- **Shelter expenses.** For most MSCAP participants, QC reviewers record the utility expenses as the MSCAP SUA. For units where this was not the case, we recode the utility expense values (UTIL). In addition to a utility expense, some QC reviewers recorded a rent or mortgage value for MSCAP units. We recode this value (RENT) as 0 because the MSCAP SUA reflects combined shelter expenses, including rent/mortgage.
 - For most SCCAP participants, QC reviewers record the utility expense value as the South Carolina HCSUA value and rent/mortgage as the standard SCCAP rent amount. We recode utilities (UTIL) and rent/mortgage (RENT) for SCCAP units that do not follow this pattern.
- Income. In most MSCAP and SCCAP units, the raw gross income equals either the maximum SSI benefit for eligible individuals or the maximum SSI benefit plus \$20, reflecting the \$20 unearned income disregard for SSI. We recode the raw gross income (RAWGROSS) of MSCAP and SCCAP units that do not follow this pattern. We set the sum of individual incomes equal to the raw gross income (RAWGROSS) by adjusting individual incomes proportionately, as necessary.

In Texas, after setting calculated net income and all calculated deduction variables to missing as described earlier, we perform the following recode for units identified as SNAP-CAP participants:

- SNAP participation and unit size. According to SNAP-CAP rules, married couples may participate in the program but are treated as separate units. If a unit consists of a married couple, both partners are age 50 or older, and the unit is coded as SNAP participants and receives a SNAP-CAP standard benefit, we keep the first person as an eligible member of the SNAP case under review (FSAFILi = 1) and recode the other as "Eligible SNAP participant in another unit, not currently under review" (FSAFILi = 2). We adjust the variable indicating unit size accordingly (FSUSIZE).
- **Income.** In SNAP-CAP units that originally had more than one individual coded as a SNAP participant, we reset raw gross income (RAWGROSS) equal to the sum of the individual incomes assigned to the one individual who remains a SNAP participant (FSAFILi = 1). In other SNAP-CAP units, we reconcile individual incomes with the original gross income.

²⁸Because so few MSCAP- and SCCAP-eligible units have allotment adjustments, we do not check for units in which the recorded benefit plus or minus the allotment adjustment would equal an MSCAP or SCCAP standard benefit.

Benefit calculations for units

In Mississippi, we set the final calculated benefit equal to the standard SSI-CAP benefit that corresponds to the utility (UTIL) and raw gross (RAWGROSS) values in Appendix F, Table F.14.

In New York, for NYSNIP units with a recorded benefit that matches an NYSNIP benefit, we set the calculated benefit equal to the recorded benefit. For NYSNIP units with a recorded benefit that does not match an NYSNIP benefit, we calculate the benefit based on NYSNIP rules.

In Pennsylvania, we set the final calculated benefit equal to the standard SSI-CAP benefit that corresponds to the unit's rent (RENT) and presence or absence of unearned income other than SSI, as shown in Appendix F, Table F.19.

In South Carolina, we set the final calculated benefit equal to the standard SSI-CAP benefit that corresponds to the rent (RENT) and raw gross (RAWGROSS) value found in Appendix F, Table F.20.

In South Dakota, we set the final calculated benefit equal to the standard SSI-CAP benefit that is consistent with unit size, shelter expenses (FSSLTEXP), presence or absence of earned income (FSEARN), and presence or absence of medical expenses (FSMEDEXP) as found in Appendix F, Table F.21.

4. SSI-CAP programs with a standard shelter expense

The States listed in Table III.3 operate programs that assign participants a standard "high" or "low" shelter expense, and then calculate the unit benefit on the basis of actual income, the standard deduction, the SUA, and the standard shelter expense. Because net income and a few deductions are used to calculate a benefit for SSI-CAP participants in these States, the variables are retained on the file. However, other deductions are not used for the benefit calculation and are set to missing (.E). The variables set to missing for SSI-CAP participants in these States include:

- Medical deduction (FSMEDDED)
- Earned income deduction (FSERNDED)
- Dependent care deduction (FSDEPDED)
- Child support expense deduction (FSCSDED)
- Homeless deduction (HOMELESS DED)

In addition, we recode the SUAs to differentiate SSI-CAP units from other units that received the same SUA by setting SUA1 to 9 ("Other"). Like SSI-CAP units with a standard benefit, when we set calculated deductions to missing, the raw variables indicating the actual costs are usually retained.

Units with earnings are not eligible to enroll in SSI-CAP programs in these States. However, after a unit participates, it may have earned income for up to three consecutive months without losing eligibility.

State	Start date	Unit composition	Age	Allowed income	Shelter amounts
Florida (SUNCAP)	April 2005	Living alone	No age requirement	Earned and unearned	\$240 or less More than \$240
Massachusetts (BAYSTATE CAP)	February 2005	Living alone	18 or older	Earned and unearned	Less than \$450 \$450 or more
Washington (WASHCAP) ¹	December 2001*	Living alone	18 or older	Unearned	Less than \$300 \$300 or more

Table III.3. SSI-CAP programs with standard shelter expenses

We use the following process to identify, recode, and assign benefits to households participating in SSI-CAP programs with a standard shelter expense:

Identifying units. We identify as SSI-CAP participants all individuals meeting the eligibility criteria outlined in Table III.3 who have recorded rent/mortgage amounts equal to any of the standard rent/mortgage allowances for that State.

In Massachusetts, if the recorded rent/mortgage amount is not equal to the standard allowance, we calculate the benefit assuming that the standard allowance was used. If this calculated benefit matches the raw benefit, then we recode the rent/mortgage amount to be the standard allowance, and flag the unit as a BAYSTATE CAP participant.

Recodes for units. In addition to setting the deductions not used in the benefit calculation to missing as described above, we perform the following recode for units identified as participants:

- **Shelter expenses.** When necessary, we recode utilities of units in Massachusetts and Washington to equal the State's HCSUA or LUA for one-person units.
- **Income.** We reconcile individual incomes with gross income in SSI-CAP units by using the same process as in non-CAP units.

Benefit calculation for units. We use the regular SNAP benefit calculation. Benefits are based on actual income, the standard deduction, the standard shelter amount, and the SUA. The standard shelter amount is determined by the unit's actual monthly shelter expenses, excluding utilities. Benefit calculations for all States with a standard shelter expense SSI-CAP program are shown in Appendix F, Table F. 24.

d. Medical expense deduction demonstration programs

Sixteen States have programs to standardize medical deduction amounts when units' medical expenses fall within a specified range (see Appendix F, Table F.4). In these States, if a unit with an elderly member or individual with a disability incurs medical expenses less than or equal to the State threshold, the unit receives a medical expense deduction equal to the threshold

^{*} We began modeling the SSI-CAP program in FY 2004.

¹ QC reviewers use a special local agency code for WASHCAP units whose applications were processed in an SSA office. We identify as WASHCAP participants all units that meet the criteria outlined in the table above and flagged with this special local agency code.

minus \$35. Units with medical expenses greater than the threshold receive a medical deduction equal to actual medical expenses, minus \$35. To achieve cost neutrality, most States reduced the HCSUA for the entire caseload. The HCSUA modeled for these States in the SNAP QC database reflects the adjustments. The States are listed in Table III.4 below.

Table III.4. States with standard medical deductions

	Start date	
State	(of current waiver)	Cost neutrality
Alabama	October 2014	HCSUA was reduced by \$6.
Arkansas	November 2011	HCSUA was reduced by \$4.
Idaho	November 2013	HCSUA was reduced by \$11.
Illinois	June 2011	The standard deduction was reduced by \$4 between October 2014 and February 2015, and by \$7 between March 2015 and September 2015. These reductions are not reflected in the SNAP QC database.
Iowa	October 2012	HCSUA and lower utility standard were reduced by \$5. Both reductions are reflected in the SNAP QC database.
Kansas	January 2011	HCSUA was reduced by \$8.
Massachusetts	April 2013	HCSUA was reduced by \$7.
Missouri	September 2011	HCSUA was reduced by \$10.
New Hampshire	June 2015	HCSUA was reduced by \$6.
North Dakota	April 2013	HCSUA was reduced by \$10.
Rhode Island	October 2012	HCSUA was reduced by \$7.
South Dakota	May 2013	HCSUA was reduced by \$9.
Texas	October 2012	HCSUA and lower utility standard were reduced by \$2. Both reductions are reflected in the SNAP QC database.
Vermont	December 2013	HCSUA was reduced by \$12.
Virginia	October 2011	HCSUA was reduced by \$3.
Wyoming	January 2012	HCSUA was reduced by \$7.

C. Derivation of sampling weights

The SNAP QC file's sampling weights are derived to reflect State and national caseload totals from SNAP Program Operations data after adjustments for receipt of disaster assistance benefits and benefits issued in error. They are intended to match monthly target levels of SNAP households, participants, and benefits.

To derive monthly weights, we first calculate preliminary weights that sum to the monthly number of SNAP units by State and stratum, as reflected in the adjusted SNAP Program Operations data. The tables in Appendix D show the preliminary monthly weights (HWGT) and their derivation for each State and stratum. We create the preliminary weights using these six major steps, presented in Tables D.4-D.15:

1. In States that distributed disaster SNAP benefits, we lower the Program Operations counts in the month(s) of the disaster by the number of SNAP units receiving benefits

- specifically because of the disaster (but not already participating SNAP units who receive additional benefits). (Column e)
- 2. For the States with stratified samples, we apportion the adjusted Program Operations counts across the strata according to the percentage of the sample that is in that stratum in that month. (Column f)²⁹
- 3. We calculate the disqualification rate by State and stratum by first identifying all disqualified SNAP units, which are those that the reviewers found "ineligible" (coded as STATUS = 4) or "eligible" but not qualifying for a benefit (coded as STATUS = 2 with the error amount at least as large as the full benefit). The number of disqualified SNAP units divided by the number of SNAP units with completed reviews is the "disqualification" rate.³⁰ (Column i)
- 4. We lower the Program Operations counts of SNAP units by the disqualification rate calculated in Step 3 to derive the final adjusted Program Operations totals. (Column j)
- 5. We remove any additional SNAP units that do not appear to be eligible for SNAP either because they do not pass the asset or income tests and are not categorically eligible or because they do not qualify for a positive benefit. Removing these households does not affect disqualification rates or the total number of weighted units. (Column k)
- 6. We calculate a preliminary weight for each SNAP unit by State and stratum by dividing the final adjusted Program Operations count by the remaining number of SNAP units on the file. (Column m)

After deriving the preliminary weights, we use a nonlinear programming (NLP) technique to create final weights that produce estimates that match adjusted Program Operation monthly totals of units, participants, and benefits. Participant totals are adjusted by the number of individuals in units removed in Steps 1 and 4 above. Benefit totals are adjusted by benefits issued to units that were removed and by additional disaster benefits issued to units receiving regular SNAP benefits. The NLP algorithm incrementally changes the original weight until the three adjusted Program Operation monthly totals are matched, with the additional restriction that the final weights will not be less than 10 percent of the preliminary weights. The resulting monthly weights are no longer identical to the preliminary weights or identical among units sampled in the same month, State, and stratum.

To calculate standard errors using the bootstrap method, we use the NLP algorithm to compute 500 sets of replicate weights. Each set of replicate weights is calculated from a random sample of the raw SNAP QC datafile, using a methodology similar to the one described above.

Because the replicate weights are based on a random sample of raw SNAP QC data, there are occasionally instances when the NLP algorithm cannot find weights that match all three Program Operations totals within a certain State and month. When this happens, the algorithm attempts to match only the unit and individuals control totals for that particular State and month.

²⁹ Column omitted from Appendix D tables due to space limitations but available upon request. No States had a stratified sample in the FY 2015 SNAP QC file.

³⁰ The numerator of FNS' error rate includes units that received too much or too little in benefits in addition to the units included in the disqualification rate numerator.

If the algorithm cannot find weights that match both control totals, the replicate weights are set equal to the preliminary weights for that particular State and month.

The edited SNAP QC file contains two weight variables: the monthly weight (HWGT) and the full-year weight (FYWGT). HWGT is used for tabulations in specific months. If a tabulation is for a period longer than one calendar month, the average monthly value for the time period can be obtained by dividing HWGT by the number of months being analyzed. Tabulations of average monthly values for the entire fiscal year can be obtained by using FYWGT, which is HWGT divided by 12.

IV. DEVELOPMENT OF THE 2015 QC MINIMODEL

The QC Minimodel—one of FNS's SNAP microsimulation models—uses the SNAP QC database to simulate the impact of various policy changes to SNAP on current SNAP participants. The QC Minimodel uses a series of algorithms, organized in the SNAP Module (FSTAMP), to simulate eligibility, benefits, and participation in SNAP. Some of the FSTAMP routines are specific to the SNAP QC database while others are database-independent. This chapter provides a technical description of the procedures specific to the SNAP QC database that are used to transform characteristics of SNAP units in that database into the data elements that conform with inputs used with the database-independent algorithms of FSTAMP. The database-independent algorithms are documented in the 2011 MATH SIPP+ Microsimulation Model: Programmer's Guide, Technical Description and Codebook (Schechter et al. 2014).

A. Create MATH-style version of SNAP QC database

1. Introduction

The QC Minimodel requires a binary file in a particular format (MATHTM style)³¹ as input. This section describes the procedure used to create the binary file from the SAS version of the SNAP QC database. A two-step process is required to generate the final binary file in the MATH format: (1) create a binary file from the SAS dataset, and (2) run a tally using the binary file from Step 1 to finalize the binary file for use with the QC Minimodel.

2. User parameters

None.

3. Programmer's guide

a. Input file for Step 1

QCFY2015.SAS7BDAT Final SNAP QC database, in SAS format.

b. Output files from Step 1

MATHPC.HDR ASCII header file that describes the record layout of the

database file, MATHPC.BIN.

MATHPC.BIN QC database file in standard binary form, in a hierarchical

format (household record and then person records for

individuals in the household).

c. Program for Step 1

MINIOC15.SAS

2

³¹ MATH stands for Micro Analysis of Transfers to Households.

d. Output variables for Step 1

The variables are the same as those in the final SNAP QC database.

e. Input files for Step 2

MATHPC.HDR From Step 1.

MATHPC.BIN From Step 1.

f. Output files from Step 2

MATHPC.HDR ASCII header file that describes the record layout of the

database file, MATHPC.BIN, in final MATH format.

MATHPC.BIN QC database file in standard binary form, in a hierarchical

format (household record then person records for individuals in the household), in final MATH format.

g. Programs for Step 2

Subroutine tally:

- Rename unit-level variable FSDEPDED to HDEPDED (because FSDEPDED is reserved as a MATH model variable name).
- Delete the variable SEEDP and generate a new person-level SEEDP that is compatible with the MATH model random number generator MATHRAND.
- Create a person-level baselaw variable FSNABAWD (the number of adults without disabilities age 18 to 49 in childless units) on the unit head's record, by summing over individuals in the unit with NDISCA = 1. Set FSNABAWD to '0' for all other individuals.
- Create a person-level baselaw variable FSALLPA from the unit-level PURE_PA and set it to '0' for all, or '1' for the unit head if PURE_PA = 1.
- Ensure the asset test result FSASTEST = 1 for all units.

h. Output variables for Step 2

The variables are the same as those in the SNAP QC database, plus the newly created variables.

4. Technical description

The following is a brief description of the procedures used to create a binary MATH-style version of the SNAP QC database.

a. Create preliminary binary file

We create a hierarchical file in standard binary format that contains one household-record per household in the SNAP QC database. Within each household, we create one person-record for each person represented in the SNAP QC database and then convert proprietary SAS missing data codes as follows:

- . -1 (blank on raw QC file)
- A -2 (coded by Mathematica as out of range)
- B -3 (coded by QC reviewer as unknown)
- C -4 (unable to construct variable)
- D -5 (household participating in month not certified)
- E -6 (MFIP and SSI-CAP units, variable not relevant in benefit determination)

b. Create preliminary header file

We edit by hand the MATHPC.HDR file so that its record layout matches the output statement in MINIQC15.SAS.

c. Create final binary and header files

The model tracks, updates, and writes out the final header file, illustrated below.

MATHPC.BIN	FILE NAME
08/04/2016	CREATION DATE
14:37:34.91	CREATION TIME
FY2015	BASE YEAR
FY2015	YEAR AGED TO
avg	SIMULATION MONTH
48022	HOUSEHOLD COUNT
QC MINI	MODEL LABEL
2015.00	MODEL VERSION

Using the output database from MINIQC15.SAS, we run a QC Minimodel-based program to generate the final version of the QC Minimodel database. This program:

- Creates person-level seeds SEEDP to be used with the random number generator.
- Creates the variables FSDEPDED, FSNDIS, FSNONCIT, FSNABAWD, FSALLPA, and FSASTEST.

B. QC-specific portion of the QC Minimodel

1. Introduction

The QC Minimodel software is segregated into database-independent (generic) and database-specific components. In this section, we document the QC-specific portion of the model.

2. User parameters

The QC Minimodel contains the following model-specific user parameters:

- 1. SHELCAP1 is the shelter limit for the contiguous U.S., Alaska, Hawaii, Guam, and the Virgin Islands.
- 2. MN_BEN is a table by SNAP unit size with entries for the food portion amounts and the cash portion amounts required for calculating the benefit for MFIP participants.
- 3. MNERNDED is the value used for calculating the earned income deduction for MFIP participants.
- 4. XMN FIP is a flag that allows us to exclude MFIP participants from a simulation.
- 5. XSCAP AZ is a flag that allows us to exclude AZSNAP participants from a simulation.
- 6. XSCAP FL is a flag that allows us to exclude SUNCAP participants from a simulation.
- 7. XSCAP KY is a flag that allows us to exclude KYSAFE participants from a simulation.
- 8. XSCAP LA is a flag that allows us to exclude LaCAP participants from a simulation.
- 9. XSCAP_MA is a flag that allows us to exclude BAYSTATECAP participants from a simulation.
- 10. XSCAP MD is a flag that allows us to exclude MSNAP participants from a simulation.
- 11. XSCAP MI is a flag that allows us to exclude MiCAP participants from a simulation.
- 12. XSCAP MS is a flag that allows us to exclude MSCAP participants from a simulation.
- 13. XSCAP NC is a flag that allows us to exclude NCSNAP participants from a simulation.
- 14. XSCAP NJ is a flag that allows us to exclude NJSNAP participants from a simulation.
- 15. XSCAP NM is a flag that allows us to exclude NMCAP participants from a simulation.
- 16. XSCAP NY is a flag that allows us to exclude NYSNIP participants from a simulation.
- 17. XSCAP PA is a flag that allows us to exclude PACAP participants from a simulation.
- 18. XSCAP SC is a flag that allows us to exclude SCCAP participants from a simulation.
- 19. XSCAP_SD is a flag that allows us to exclude SD IN program participants from a simulation.
- 20. XSCAP_TX is a flag that allows us to exclude SNAP-CAP participants from a simulation.

- 21. XSCAP_VA is a flag that allows us to exclude VaCAP participants from a simulation.
- 22. XSCAP_WA is a flag that allows us to exclude WASHCAP participants from a simulation.
- 23. DOSTAT allows us to include or exclude table statistics in the standard summary tables

For a list of generic FSTAMP user parameters, see documentation for the database-independent portion of the SNAP model (FSTAMP) in the 2011 MATH SIPP+ Microsimulation Model: Programmer's Guide, Technical Description and Codebook (Schechter et al. 2014).

3. Programmer's guide

a. Input files

MATHPC.PRM User parameter file (text file).

MATHPC.HDR ASCII header file that describes the record

layout of the database file, MATHPC.BIN.

MATHPC.BIN SNAP QC database file in standard binary

form, in a hierarchical format: household record, and then person records for individuals

in the household.³²

b. Output files

MATHPC.HDR³³ ASCII header file that describes the record

layout of the output database file,

MATHPC.BIN.

MATHPC.BIN SNAP OC database file in standard binary

form, in a hierarchical format (unit record, and

then person records for individuals in the unit).

MATHPC.TAB Summary tables (text file).

MATHPC.OUT Debug file.

Q15Pxxx NAT tabs ddmmmyyyy.xlsx Summary tables (Excel file) where xxx is the

plan number and ddmmmyyyy is the date.

_

³² Individuals on the file include SNAP participants plus nonparticipating household members whose income was considered in the eligibility and benefit determinations of the SNAP unit under review.

³³ Note that MATHPC.HDR and MATHPC.BIN are created only when the WRFILE is set to T (true).

c. Programs

i. Subroutines

db_fs_counts Increments debug counters and prints totals to

MATHPC.OUT file.

db fs hh definers Creates variables that describe fixed characteristics of the

SNAP household, such as the geographic indices used in the income screens and benefit calculations. If needed, the replicate weight file is opened, the replicate weight array

is allocated, and the weights are read.

db fs asset Counts database-specific assets for SNAP units; since the

SNAP QC database contains a reported value for unit countable assets, the routine only computes the asset

limit.

db fs unit Identifies which household members belong to which

SNAP unit and determines whether a person is categorically excluded from any SNAP unit.

db fs locate vars

Locates the database-specific input variables.

db fs parm array sizes Sets the size of database-specific arrays.

db fs readparm Reads database-specific user parameters from parameter

file.

db fs validate parm Validates the user parameters using database-specific

criteria.

db fs participation Determines whether or not eligible units participate.

db fs display debug Prints database-specific debug about SNAP units and their

eligibility determination.

db fs vars Creates SNAP unit summary variables (for example,

FSGRINC, FSNETINC).

db fs calc benefit Computes the benefit for participants in State programs

with nonstandard benefit calculations.

db fs calc pure pa Calculates FSALLPA, the pure PA flag.

db_fs_set_fsgrtest Recomputes gross income test for units with child support

payment expenses.

db_fs_save_generic_vars Dummy routine for generic code compatibility.

db fs display summ debug Dummy routine for generic code compatibility.

db fs table b Dummy routine for generic code compatibility.

db fs prob distr tab Dummy routine for generic code compatibility.

db fs calc categ elig Dummy routine for generic code compatibility.

Placeholder for any new BBCE coding.

db fs display partic debug Dummy routine for generic code compatibility.

Placeholder for any new participation algorithm debug.

ii. Modules

fs dbdefine Common storage for database-specific household definer

variables.

fs dblocs Common storage for database-specific variable locations.

fs dbparm Common storage for model-specific parameters. The medical

deduction demonstration program parameters are also stored

here.

fs dbwork Common storage for some working variables.

d. Output variables

None. The database-independent portion of the MATH FSTAMP model creates all output variables.

4. Technical description

The primary purpose of the SNAP QC-specific model algorithms is to use SNAP QC-specific data elements to construct the variables needed by the database-independent portion of FSTAMP. Sections a, b, and c refer to code that is executed in the initialization phase (KEOF=1). The remaining sections refer to code executed in the processing phase (KEOF=2).

a. Set parameter array sizes

i. Purpose

Certain parameters or features of the models are generic across the models, but vary in form or shape from model to model. In this section we set the database-specific elements. For example, all model use the maximum benefit parameters, but the number of regions where the maximum benefit is specified varies from model to model (seven regions in the QC Minimodel).

ii. Specification

Deflation parameters. These are usually set to 1.0 (no deflations) in the QC Minimodel:

```
defl_gen = 1.0
defl_VEH = 1.0
```

State loops. There is no looping over states in the QC Minimodel. These parameters control looping:

```
start_kist = 1
end_kist = 1
gen_array_size = 1
```

Database-specific parameter dimensions for the QC Minimodel:

```
num_benmax_region = 7
num_benmin_region = 7
num_depmax_region = 5
num_screen_region = 3
num_shelcap_region = 5
num_standded_region = 5
max_nbr_asset_states = 57
```

b. Validate user parameters

i. Purpose

Although not SNAP QC-specific, two of the generic FSTAMP user parameters must have certain values for the QC Minimodel: BASELAW and FS VARS.

ii. Specification

The QC Minimodel does not support BASELAW = ' ' (baselaw eligibility simulation), because the baselaw simulation is determined by the SNAP QC file editing process rather than by FSTAMP (although the results of the SNAP QC file editing algorithms match the results of the FSTAMP algorithms exactly). For new baselaw runs, a new file created with WRFILE = T should be saved, and policy change simulations can be run off this baselaw by setting BASELAW = the suffix of the variables from the new baseline and setting FS_VARS = BASELAW+1. For example, if baselaw variables have a suffix of "1" a new policy change simulation is created with FS_VARS = 2 and saved as a new baseline. The new file now has two sets of variables, one with suffix = "1" and the other with suffix = "2". To use the new baseline in a policy change simulation, point INDIR to the new file and set BASELAW = "2" and FS_VARS = "3".

FS_VARS = 1 is not allowed, because the variables with a suffix of "1" are always on the file. The original "suffix 1" variables are always needed by the DBVARS routine for imputing medical, shelter, and child support payment expenses, and countable assets (when the unit composition is not that of the original unit). Users who change the "suffix 1" set of variables on the file should make sure that they understand the impact on the DBLOCS, DBDEFINE, and DBVARS calculations.

Certain parameters must stay constant from plan to plan in a multi-plan run. These include:

DOSTATS

XMN FIP

XSCAP xx, where xx is the state abbreviation of a state with an SSI CAP program.

A fatal error will be issued if the model detects a variation in any of these parameters from plan to plan.

c. Locate the input variables used and the output variables created

i. Purpose

During KEOF = 1, before processing household records, obtain pointers to variables needed as input to the database-specific model algorithms.

ii. Specification

Use the LOCVAR supervisor routine to obtain and store locations for the following variables:

AGE	FOSTER	HOMEDED	SOCSEC
AK_AREA	FSAFIL	HOMELSDED	SSI
CAT_ELIG	FSASSET 1	MED_DED_DEMO	SSI_CAP
CONT	FSCSDED	MINIMUM_BEN	STATE
CSUPRT	FSMEDEXP	MN_FIP	TANF
CTZN	FSNDIS 1	NDISCA	UNEMP
DEEM	FSNELDER 1	OTHERN	VET
DIS	FSNKID 1	OTHGOV	WAGES
DIVER	FSSLTEXP	OTHUN	WCOMP
DPCOST	FSUN 1	PURE_PA	WGESUP
EDLOAN	FSUSIZE 1	RACETH	WRKREG
EITC	FSVEHAST	RCNTACTN	YRMONTH
EMPRG	FYWGT	REL	
ENERGY	GA	SEX	
EXFSCSDED	HDEPDED	SLFEMP	

d. Construct household definer variables

i. Purpose

For each household, we create household definer variables that are used in subsequent calculations

ii. Specification

If statistics are selected, we open the replicate weight file and read in the weights for each household. We set WGT to FYWGT. We set geographic indicators for the 48 contiguous United States plus the District of Columbia, Alaska, Hawaii, Guam, and Virgin Islands. GEOG_DED indexes the standard deduction, dependent care deduction, and shelter deduction arrays; GEOG_SCRN indexes the gross and net income screen arrays; GEOG_BEN indexes the maximum benefit array; and GEOG_POV indexes the POVMONTH array.

```
select case (state%ihhld)
   case(15)
                                            !! hawaii
      geog_ded = 3
      geog_scrn = 3
      geog_ben = 5
   case(2)
                                            !! alaska
      qeoq_ded = 2
      qeoq_scrn = 2
select case(l_ak_area%ihhld)
                                            !! alaska rural i
   case(1)
      geog_ben = 3
                                            !! alaska rural ii
   case(2)
      geog_ben = 4
   case default
      geog_ben = 2
                                            !! alaska urban is default
 end select
                                            !! guam
   case(66)
      geog\_ded = 4
      geog_scrn = 1
      geog_ben = 6
                                            !! virgin islands
   case(78)
      geog_ded = 5
      geog_scrn = 1
      geog_ben = 7
   case default
      geog\_ded = 1
      geog_scrn = 1
      geog\_ben = 1
end select
 geog_pov = geog_scrn
 region = region_lookup(state%ihhld)
 fstate = state%ihhld
```

We set skip_hh_flags for MN_FIP and SSI_CAP units according to the "skip" parameters, which vary by State.

Next, we assign SNAP reporting status, FS_REPORTER, and set it to true for all units. Then, we obtain *original* SNAP QC database values for imputation of shelter expenses, medical expenses, child support expenses, and dependent care deductions (FSSLTEXP, FSMEDEXP, FSCSDED, FSDEPDED) in cases where the SNAP unit is not the original SNAP unit. Note that all of the calculations below *must* be based on the original SNAP unit and its data, even if a new baselaw has been constructed. Also, we set original assets and original unit counts and flags.

```
orig_fsmedexp = I_original_fsmedexp%ihhld
orig_fssltexp = I_original_fssltexp%ihhld
```

```
orig_fsdepded = I_original_fsdepded%ihhld
orig_fscsded = I_original_fscsded %ihhld
orig_fsuhead = 0
do ip = 1, ctprhh
if (I_original_fsun%iper(ip) == ip) orig_fsuhead = ip
orig_fsusize = I_original_fsusize %iper(orig_fsuhead)
orig_fsnkid = I_original_fsnkid %iper(orig_fsuhead)
orig_fsnelder = I_original_fsnelder%iper(orig_fsuhead)
orig_fsndis = I_original_fsndis %iper(orig_fsuhead)
orig_fsasset = I_original_fsasset %iper(orig_fsuhead)
orig_kids_lt15 = 0
hhtanf = 0
do ip = 1, ctprhh
   if (I_tanf%iper(ip) > 0) hhtanf = hhtanf + tanf%iper(ip)
   if (I_original_fsun%iper(ip) == 0) cycle
   if (l_age%iper(ip) < 15 .and. age%iper(ip) >= 0) orig_kids_lt15 = orig_kids_lt15 + 1
end do
```

e. Construct SNAP unit

i. Purpose

We use the "FSUN 1" code to construct the SNAP unit. We make sure that every SNAP unit has a head.

ii. Specification

We assign FSUN (SNAP unit number) to each person in the household:

```
do ip = 1, ctprhh
  fsun(ip) = I_original_fsun%iper(ip)
end do
```

We identify units that no longer have a head due to a policy change simulation, and assign them a new head:

```
do ip = 1,ctprhh
  if (fsun(ip) == 0) cycle
  if (fsun(fsun(ip)) /= fsun(ip)) then
      do jp = ip+1,ctprhh
      if (fsun(jp) == fsun(ip)) fsun(jp) = ip
      end do
      fsun(ip) = ip
  end if
end do
```

f. Create SNAP unit summary variables

i. Purpose

We summarize characteristics of each SNAP unit by adding the countable income of all household members and counting various types of people in the unit (such as number of elderly members and number of children).

ii. Specification

For each unit, we aggregate the countable income of all members in the household. Gross income is the sum of all earned and unearned income. When appropriate, we exclude child support expenses from the gross income. (There are separate values that indicate expenses to be subtracted before the gross income test (EXFSCSDED) and from expenses to be subtracted before the net income test (FSCSDED).

We loop over all individuals in the household:³⁴

```
do ip = 1. ctprhh
     !----- WELFARE Support (Note: missing income values are coded as < 0)
     if (I_tanf%iper(ip) > 0) fstanf(iunit) = fstanf(iunit) + I_tanf%iper(ip)
     if (I_ssi %iper(ip) > 0) fsssi (iunit) = fsssi (iunit) + I_ssi %iper(ip)
     if (I_ga \%iper(ip) > 0) fsga (iunit) = fsga (iunit) + I_ga \%iper(ip)
     !----- Earnings
     if (I_wages %iper(ip) >0) fsearn(iunit) = fsearn(iunit) + I_wages %iper(ip)
     if (I_othern%iper(ip) >0) fsearn(iunit) = fsearn(iunit) + I_othern%iper(ip)
     if (I_slfemp%iper(ip) >0) fsearn(iunit) = fsearn(iunit) + I_slfemp%iper(ip)
     !---- Other unearned income
     if (I_eitc%iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_eitc%iper(ip)
     if (I_othgov%iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_othgov%iper(ip)
     if (I_socsec%iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_socsec%iper(ip)
     if (I_unemp %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_unemp%iper(ip)
     if (I_vet %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_vet%iper(ip)
     if (I_wcomp %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_wcomp %iper(ip)
     if (I_edloan%iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_edloan%iper(ip)
     if (I_csuprt%iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_csuprt%iper(ip)
     if (I_deem %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_deem %iper(ip)
     if (I_cont %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_cont %iper(ip)
     if (I_othun %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_othun %iper(ip)
     if (I_diver %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_diver %iper(ip)
     if (I_wgesup %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_wgesup %iper(ip)
     if (I_energy %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_energy %iper(ip)
     if (I_foster %iper(ip) > 0) fsgrinc(iunit) = fsgrinc(iunit) + I_foster %iper(ip)
  end do! end of person loop
     fsgrinc(iunit) = fsgrinc(iunit) + fsearn(iunit) + fsssi(iunit) + fsTANF(iunit) + fsga(iunit)
     fsgrinc(iunit) = fsgrinc(iunit) - exfscsded%iper(iunit)
  end do! end of unit loop
```

_

³⁴All individuals in the household include all individuals in the SNAP unit under review, plus individuals outside the unit that contribute income to the unit.

For each unit, we loop over individuals and count members with various characteristics:

- Total members
- Number of adults and number of female adults (those with missing age are included as adults)
- Number of children, number of school-aged children, number of toddlers (children under age 2), and number of children older than toddlers
- Number of elderly members
- Number of noncitizens
- Number of ABAWDs
- Number of disabled members

```
do iunit = 1, ctprhh
     do ip = 1, ctprhh
          if (fsun(ip) /= iunit) cycle ! cycle if person not in the SNAP unit
               fsusize(iunit) = fsusize(iunit) + 1
             if (I_age%iper(ip) > max_kid_age .or. I_age%iper(ip) < 0) then
                    fsnadult(iunit) = fsnadult(iunit) + 1
                    if (sex%iper(ip) == 2) femadults = femadults + 1
             else
               fsnkid(iunit) = fsnkid(iunit) + 1
               if (I_age%iper(ip) >= min_school_age) fsnk5t17(iunit) = fsnk5t17(iunit) + 1
               if (I_age%iper(ip) < max_toddler_age) then
                    fndeplt2(iunit) = fndeplt2(iunit) + 1
                    fndepge2(iunit) = fndepge2(iunit) + 1
               end if
            end if
          if (I_age%iper(ip) >= min_elderly_age) fsnelder(iunit) = fsnelder(iunit) + 1
          if (l_ctzn%iper(ip) > 2) fsnoncit(iunit) = fsnoncit(iunit) + 1
          if (I_NDISCA%iper(ip) == 1 .AND. I_fsafil%iper(ip) == 1) fsnabawd(iunit) = fsnabawd(iunit) + 1
          if (l_dis%iper(ip) == 1) fsndis(iunit) = fsndis(iunit) + 1
     end do! end of person loop
```

end do! end of loop over all fs units in the household

We identify SNAP units headed by a single female. This is not used for any eligibility determination. It is used for summary counts only (Gainer/Loser tables).

```
if (fsnadult(iunit) == 1 .and. femadults==1 .and. fsnkid(iunit) >0) fsngmom(iunit) = 1
```

g. Impute assets, shelter expenses, medical expenses, homeless deduction, and child support payment expenses when SNAP unit is not the original SNAP unit

i. Purpose

Asset and expense data recorded on the SNAP QC database pertain to the actual SNAP unit sampled by the QC System. However, the QC Minimodel has the capability to simulate SNAP units with compositions that are different from the composition of the original SNAP unit by removing individuals with certain characteristics from the original SNAP unit.

The QC system records countable income at the person-level for every household member whose income is used to determine the SNAP unit's eligibility. However, asset and expense data are recorded only at the unit level for the original SNAP unit. Thus, the QC Minimodel uses the original SNAP unit's asset and expense data, along with algorithms described below, to impute expenses and assets for any simulated SNAP unit that has a composition different from that of the original SNAP unit.

Many different algorithms could be used to impute assets and expenses in simulations that involve changes to SNAP unit composition. The best algorithm to use depends on the type of policy change to be simulated. The algorithms described below have been incorporated into the QC Minimodel because they have been used for numerous policy change simulations requested by FNS. These algorithms will work well for many types of simulations, but they are not designed to be generally applicable.

ii. Specification

Countable assets. For all simulated SNAP units, the QC Minimodel assigns the countable assets of the original SNAP unit:

fsasset (iunit) = orig_fsasset

While the value of countable assets is kept constant when the unit composition changes, the removal of certain individuals from the SNAP unit may mean that a different asset limit is applicable, thus resulting in some units losing asset eligibility. For example, the removal of elderly members or individuals with disabilities from the SNAP unit would lead to a lower asset limit.

Shelter expenses. For all simulated SNAP units, the QC Minimodel assigns shelter expenses equal to the product of the number of individuals in the unit and the per capita shelter expenses of the original SNAP unit:

fssltexp(iunit) = nint(orig_fssltexp * float(fsusize(iunit)) / orig_fsusize)

In reality, a household's shelter expenses are assigned to each SNAP unit in the household, based on the share of shelter expenses actually *paid* by each member of each SNAP unit. Although the SNAP QC data contain no information regarding which individuals are responsible for paying shelter expenses, one could impute payment responsibility based on income; a person with 65 percent of a household's income would be assumed to be responsible for paying 65 percent of the household's shelter expenses. Again, the best imputation depends on the type of policy change to be simulated.

Medical expenses. The QC Minimodel imputes medical expenses based either on the number of elderly members or individuals with disabilities in the original unit. If the original unit contains no elderly individuals and no individuals with disabilities, then a medical deduction is not allowed—either in the original SNAP QC file editing process or in any QC Minimodel simulations. In policy change simulations, the medical expense is prorated by the ratio of elderly individuals and individuals with disabilities in the policy change simulation relative to the number of elderly individuals and individuals with disabilities in baselaw:

In addition, we identify units participating in medical deduction demonstration programs in the 16 States with such demonstrations. See Appendix F, Table F.4 for more detail on the standard medical deduction amounts for these States:

Child support payment expenses. The QC Minimodel imputes the child support payment expenses of the original unit to the head of the original unit. The child support deduction is equal to the child support expenses.

```
if (orig_fscsded > 0 .and. fsun(orig_fsuhead) == iunit) fscspded(iunit) = orig_fscsded
```

For a policy change simulation, we assign child support expenses to the simulated SNAP unit that contains the head of the original unit. If the head of the original unit does not belong to any of the newly simulated units, then the child support expenses are not used.

Homeless deduction. The QC Minimodel assigns the homeless deduction attributed to the original unit to all simulated SNAP units within the household.

```
if (I_homeded%ihhld == 3) then
    fshomeDED(IUNIT) = I_homelsded%ihhld
end if
```

Recompute gross income test. In the QC Minimodel, the gross income test is recalculated for units with child support payment expenses:

h. Select participants

i. Purpose

After eligibility is determined for a SNAP unit in the household, the model must simulate whether or not the unit decides to participate. In the QC Minimodel, we simulate all SNAP-eligible units on the file as participants because every household on the file did in reality participate in SNAP. We believe that this all-eligible-units-participate rule is reasonable in most cases. On the other hand, if a large reduction in SNAP benefits is simulated, the user may want to make some out-of-model adjustments to account for eligible SNAP units that may not

continue to participate. If a baselaw eligible unit is simulated to have a zero benefit under a policy change simulation, the unit is treated as ineligible in the simulation results.

ii. Specification

```
do iunit = 1, ctprhh
    fspart(iunit) = 0
    if (fsun (iunit) /= iunit) cycle    ! not the SNAP unit head
    if (fsben(iunit) > 0) fspart(iunit) = 1 ! all eligible units participate
end do
```

We describe in detail the FSBEN calculation in the FSBEN entry of the codebook (Chapter V). We describe MFIP and State SSI-CAP programs in Chapter III, and we list the MFIP parameters and SSI-CAP standard benefit and shelter amounts in Appendix F.

V. CODEBOOK FOR THE FY 2015 SNAP QC DATABASE

In this chapter, we describe the variables on the FY 2015 SNAP QC database, including an overview of the types of variables on the file and a list and detailed description of each variable.

A. Overview of variables on the QC file

For each variable in the FY 2015 SNAP QC database, the Codebook provides the name, origin, label, range of values, and a list of values or description. This section explains how to interpret and use that information.

1. Origin: Reported versus constructed

The "Origin" column in the codebook indicates the source of each particular variable as either reported or constructed. Variables coded as "R" are those reported on the QC Review Schedule input form and have been read directly from the raw datafile, although some editing may have taken place as noted in the variable description. Variables coded as "C" are constructed or recoded variables that are derived from reported variables and program parameters, such as the Thrifty Food Plan and the SNAP benefit reduction rate. Constructed variables are the best variables for analytical purposes because inconsistencies have been corrected.

The following variables are used in creating the tables in the "Characteristics of Supplemental Nutrition Assistance Program Households" report series and should be used to obtain consistent results:

FSBEN	Unit SNAP benefit amount
FSUSIZE	Unit size
FSGRINC	Unit total income
FSNETINC	Unit net income
FSERNDED	Unit earnings deduction
TPOV	Unit poverty percentage

2. Missing values

Table V.1 lists the missing value conventions used in the restricted use version of the SNAP QC database. Beginning in FY 2015, the public use version of the SNAP QC database includes only one value (".") for all missing data.

Table V.1. Codes for missing data in the restricted use SNAP QC database

ASCII or binary codes	SAS codes	Description
-1		Blank on source file
-2	.A	Value out of range
-3	.B	Coded by QC reviewer as unknown (field coded with all 9s)
-4	.C	Pertains to constructed variables only; variable could not be constructed or calculated due to missing data
-5	.D	For CERTMTH variable, indicates that unit is participating in months not certified
-6	.E	For SSI-CAP and MFIP units, variables that are not relevant in the benefit determination

3. Using the SNAP QC database

The FY 2015 SNAP QC database is a SAS file with 48,022 observations from 12 sample months—October 2014 through September 2015 for all States, the District of Columbia, Guam, and the Virgin Islands. To conduct analyses for a specific calendar month, the user should select observations sampled in that month by using the year month (YRMONTH) variable. The year month variable is a six-digit code with the first four digits indicating the year and the last two digits indicating the month. For example, to conduct an analysis based on observations from January 2015, the user should select all observations with a YRMONTH code equal to "201501."

After selecting the desired observations, the user must assign a weight to each observation so that the sample represents the national SNAP caseload. The weights, stored in the variable HWGT, are computed for each of the independent monthly samples and are based on actual program participation. When analyzing one specific calendar month, the user should use the YRMONTH code to select the correct observations and then use the HWGT variable. However, if the analysis is based on more than one month, and an average monthly estimate is desired, the user should divide HWGT by the number of months being analyzed. The FYWGT variable should be used for all full-year tabulations (FYWGT equals HWGT divided by 12 for all States).

The tables in the "Characteristics of Supplemental Nutrition Assistance Program Households" report series are based on the full-year sample. To create the tables, we select all observations for all months and weight the observations by FYWGT to reflect the national monthly average caseload during the fiscal year.

The SNAP QC database can be used to obtain person-level information along with unit-level data. An integer from 1 to 29, representing up to 29 people in a household, is attached to each person-level variable. For ease, users often place these variables in arrays and use indices to access the data. One of the key person-level variables is the affiliation code FSAFILi. An FSAFILi value of 1 indicates that the person participated in SNAP.

B. Codebook

This codebook lists and describes each variable in the FY 2015 SNAP QC database. The unit-level variables are listed first, followed by the person-level variables and then the detailed error findings variables, for a total of nine categories.

The unit-level variables are divided into the following six categories:

- 1. Unit-level QC review administrative data
- 2. Unit-level demographics and sample weights
- 3. Unit-level countable income
- 4. Unit-level countable assets
- 5. Unit-level expenses and deductions
- 6. Unit-level benefits

The person-level variables are divided into two categories:

- 7. Person-level characteristics
- 8. Person-level income

One category covers detailed error findings variables:

9. Detailed error findings

The categories appear in the order shown above. The variables in each category are listed alphabetically. Two codebooks are presented, both sorted in the same order. The first codebook—the quick-reference codebook—lists only the variable name, its origin, and a brief description. The second codebook—the detailed codebook—lists the variable name, its origin, and a description that includes all the valid values of the variable for discrete variables and the range of valid values for continuous variables (such as HWGT).

Detailed information on each variable in the database can be found starting on page 59. Note:

Unit QC review administrative data

ACTNTYPE	R	Type of action
ALLADJ	R	Allotment adjustment
AMTADJ	R	Amount of allotment adjustment
AUTHREP	R	Authorized representative
BENFIX	C	Benefit allotment (SNAP benefit) adjusted for errors
CASE	R	Case classification
CAT_ELIG	C	Indicator of categorical eligibility status
CERTMTH	R	Months in certification period
EXPEDSER	R	Received expedited service
HHLDNO	C	SNAP household identification number
LASTCERT	C	Months since last SNAP certification
LOCALCOD	R	Local agency code (not retained on public use file)
MED_DED_DEMO	C	Indicator of medical deduction demonstration participation
MN_FIP	C	Indicator of MFIP participation
PURE_PA	C	Indicator of pure cash public assistance status
RCNTACTN	R	Most recent action on case
REP_SYS	R	Reporting requirement
REVNUM	R	State QC review number (not retained on public use file)
SSI_CAP	C	Indicator of SSI-CAP participation
STATUS	R	Status of case error findings
YRMONTH	R	Sample year and month

Unit demographics and sample weights

AK_AREA	C	Alaska region (not retained on public use file)
CERTHHSZ	R	Certified unit size
COMPOSITION	C	Unit composition
COUNTYCD	C	FIPS code for county (not retained on public use file)
CTPRHH	C	Number of people in household
FSDIS	C	Indicator of non-elderly individuals with disabilities in unit
FSELDER	C	Indicator of elderly individuals in unit
FSKID	C	Indicator of children in unit
FSNDIS	C	Number of non-elderly individuals with disabilities in unit
FSNDISCA	C	Number of adults age 18 to 49 without disabilities in childless
		units
FSNELDER	C	Number of elderly individuals in unit
FSNGMOM	C	Indicator of single-female-headed unit
FSNK0T4	C	Number of preschool-age children in unit
FSNK5T17	C	Number of school-age children in unit
FSNKID	C	Number of children in unit
FSNONCIT	C	Number of noncitizens in unit
FSUSIZE	C	Constructed certified unit size
FYWGT	C	Weight used for full-year calculations

^{*}R indicates the variable is from the raw data; C indicates the variable was constructed.

VARIABLE ORIGIN* DESCRIPTION

Quick-Reference Codebook

HWGT	C	Monthly sample weight
NONCIT_HEAD	C	Unit head citizenship indicator
RAWHSIZE	R	Reported number of people in household
REGION	C	Constructed census region code
REGIONCD	R	FNS region code
STATE	R	FIPS code for State or territory
STATENAME	C	State or territory
STRATUM	R	Stratum identification
TANF_IND	C	Indicator of TANF receipt for unit
TPOV	C	Gross income/poverty level ratio
URBRUR	C	Urban/rural indicator (not retained on public use file)
WRK_POOR	C	Indicator of working poor unit

Unit countable income (monthly dollar amounts)

FSCONT	C	Countable unit income from contributions
FSCSUPRT	C	Countable unit child support payment income
FSDEEM	C	Countable unit deemed income
FSDIVER	C	Countable unit State diversion payments
FSEARN	C	Countable unit earned income
FSEDLOAN	C	Countable unit income from educational grants and loans
FSEITC	C	Countable unit income from earned income tax credit
FSENERGY	C	Countable unit energy assistance income
FSGA	C	Countable unit general assistance benefits
FSGRINC	C	Final gross countable unit income
FSNETINC	C	Final net countable unit income
FSOTHERN	C	Countable unit other earned income
FSOTHGOV	C	Countable unit income from other government benefits
FSOTHUN	C	Countable unit other unearned income
FSSLFEMP	C	Countable unit self-employment income
FSSOCSEC	C	Countable unit Social Security income
FSSSI	C	Countable unit SSI benefits
FSTANF	C	Countable unit TANF payments
FSUNEARN	C	Countable unit unearned income
FSUNEMP	C	Countable unit unemployment compensation benefits
FSVET	C	Countable unit veterans' benefits
FSWAGES	C	Countable unit wages and salaries
FSWCOMP	C	Countable unit workers' compensation benefits
FSWGESUP	C	Countable unit wage supplementation income
RAWGROSS	R	Reported gross countable unit income
RAWNET	R	Reported net countable unit income

Unit countable and reported assets

rules
π

VARIABLE	<u>ORIGIN</u>	DESCRIPTION	Quick-Reference Codebook
RAWLQRES	R	Reported liquid assets	
RAWOTRES	R	Reported other nonliquid	lassets
RAWRPROP	R	Reported real property	
RAWVHAST	R	Reported nonexcluded vehicles' value	
REALPROP	C	Countable real property under State rules	
VEHICLEA	R	Reported category for fir	
VEHICLEB	R	Reported category for se	
Unit expenses	and deduc	tions	

ERN_INC_DED_PCT	C	Percentage used to calculate earnings deduction
EXCL_FSCSDED	C	Child support excluded from gross income
FSCSDED	C	Child support expense deduction
FSCSEXP	R	Reported child support expense deduction
FSDEPDED	R	Reported dependent care deduction
FSDEPDE2	C	Marginal effectiveness of dependent care deduction
FSERNDED	C	Calculated earned income deduction
FSERNDE2	C	Marginal effectiveness of earned income deduction
FSMEDDED	C	Calculated medical deduction
FSMEDDE2	C	Marginal effectiveness of medical deduction
FSMEDEXP	R	Reported medical expenses
FSSLTDED	C	Calculated excess shelter deduction
FSSLTDE2	C	Marginal effectiveness of excess shelter deduction
FSSLTEXP	C	Calculated shelter expenses
FSSTDDED	C	Standard deduction
FSSTDDE2	C	Marginal effectiveness of standard deduction
FSTOTDED	C	Total deductions
FSTOTDE2	C	Marginal effectiveness of total deduction
HOMEDED	R	Indicator of homelessness
HOMELESS_DED	C	Amount of homeless deduction
RAWERND	R	Reported earned income deduction
RENT	R	Rent/mortgage amount
SHELCAP	C	Maximum allowable shelter expense deduction
SHELDED	R	Reported shelter deduction
SUA1	R	Standard utility allowance – usage and entitlement
SUA2	R	Standard utility allowance – prorated
UTIL	R	Utility amount

Unit benefits

AMTERR	R	Amount of benefit in error
ASSLIM	C	Asset limit
BENMAX	C	Maximum benefit amount
FSASTEST	C	Indicator of passing asset test
FSBEN	C	Final calculated benefit
FSGRTEST	C	Indicator of passing gross income test
FSMINBEN	C	Received minimum benefit
FSNETEST	C	Indicator of passing net income test

VARIABLE ORIGIN **DESCRIPTION** Quick-Reference Codebook

GROSSCRN	C	Gross income screen
MINIMUM BEN	C	Minimum benefit amount
NETSCRN	C	Net income screen

RAWBEN R Reported SNAP benefit received

Person-level characteristics: i = 1 to 29

ABWDSTi

R

AGEi R Age **CTZNi** R Citizenship status Person-level disability indicator DISi \mathbf{C} Reported dependent care cost **DPCOSTi** R SNAP Employment and Training program status **EMPRGi** R Employment status – type **EMPSTAi** R Employment status – amount **EMPSTBi** R **FSAFILi** R SNAP case affiliation Position of head of SNAP unit **FSUNi** C **NDISCA**i \mathbf{C} Adult age 18 to 49 without disabilities in childless unit status

ABAWD status

RACETHi R Race/ethnicity

Relationship to head of household RELi R

SEXi R Sex

WORKi C Person-level working indicator

Work registration status WRKREGi R

Highest educational level completed R YRSEDi

Person-level countable income (monthly dollar amounts): i = 1 to 29

CONTi R Countable income from contributions Countable child support payment income **CSUPRTi** R

Countable deemed income **DEEMi** R

Countable State diversion payments **DIVERi** R

Countable income from educational grants and loans **EDLOANi** R Countable income from earned income tax credit **EITCi** R

ENERGYi R Countable energy assistance income Countable general assistance benefits GAi R

Countable other earned income **OTHERNI** R

Countable income from other government benefits **OTHGOVi** R

Countable other unearned income **OTHUNi** R Countable self-employment income **SLFEMPi** R **SOCSECi** R Countable Social Security income

SSIi R Countable SSI benefits Countable TANF payments **TANFi** R

Countable unemployment compensation benefits **UNEMPi** R

Countable veterans' benefits **VETi** R WAGESi R Countable wages and salaries

Countable workers' compensation benefits **WCOMPi** R Countable wage supplementation income WGESUPi R

Detailed error findings: i = 1 to 9

AGENCYi	R	Agency or client responsibility
AMOUNTi	R	Variance dollar amount
DISCOVi	R	Variance discovery
E_FINDGi	R	Error finding
ELEMENTi	R	Variance element
NATUREi	R	Nature of variance
OCCDATEi	R	Variance occurrence date
TIMEPERi	R	Variance time period
VERIFi	R	Variance verification

<u>VARIABLE</u> ORIGIN DESCRIPTION Unit QC Review Administrative Data

Unit QC review administrative data

ACTNTYPE	R	TYPE OF ACTION Range = (1, 2) 1 = Certification 2 = Recertification
ALLADJ	R	ALLOTMENT ADJUSTMENT Range = (1, 3) 1 = No adjustment 2 = Prorated benefit 3 = Other adjustment
AMTADJ	R	AMOUNT OF ALLOTMENT ADJUSTMENT Range = (0, 917)
AUTHREP	R	AUTHORIZED REPRESENTATIVE Range = (1, 2) 1 = Used to make application 2 = Not used to make application
BENFIX	C	BENEFIT ALLOTMENT ADJUSTED FOR ERRORS Range = (0, 9986)
CASE	R	CASE CLASSIFICATION Range = (1, 3) 1 = Included in error rate calculation 2 = Excluded from error rate calculation – processed by SSA worker 3 = Excluded from error rate calculation, as designated by FNS (for example, demonstration project, simplified SNAP)
CAT_ELIG	C	INDICATOR OF CATEGORICAL ELIGIBILITY STATUS Range = (0, 2) 0 = Unit not categorically eligible for benefits 1 = Unit reported as categorically eligible for benefits and therefore not subject to SNAP income or asset tests (unit subject to State-determined income and/or asset limit on cash Public Assistance [PA] or noncash TANF-funded benefit used to confer categorical eligibility) 2 = Unit recoded as categorically eligible after being identified as pure cash PA or as meeting State-specified criteria for BBCE and therefore not subject to SNAP income or asset tests

<u>VARIABLE</u>	ORIGIN	DESCRIPTION Detailed Codebook Unit QC Review Administrative Data
CERTMTH	R	MONTHS IN CERTIFICATION PERIOD Range = (0, 84) Number of months SNAP unit was certified to participate during current certification or recertification period.
EXPEDSER	R	RECEIVED EXPEDITED SERVICE Range = (1, 3) 1 = Entitled to expedited service and received benefits within Federal time frame 2 = Entitled to expedited service but did not receive benefits within Federal time frame 3 = Not entitled to expedited service
HHLDNO	С	SNAP HOUSEHOLD IDENTIFICATION NUMBER Range = (1, 55505) Position of unit in unedited SNAP QC file (unique unit identifier).
LASTCERT	С	MONTHS SINCE LAST SNAP CERTIFICATION Range = (0, 99)
LOCALCOD	R	LOCAL AGENCY CODE (not retained on public use file) Range = (0, 930) Designates local agency and allows grouping of data by county or county equivalent (may be FIPS code or alternative classification).
MED_DED_DEMO	О С	INDICATOR OF MEDICAL DEDUCTION DEMONSTRATION PARTICIPATION Range = (0, 1) 0 = No 1 = Yes
MN_FIP	C	INDICATOR OF MFIP PARTICIPATION We recommend using MN_FIP with the understanding that it may slightly undercount the number of MFIP units. We caution against using MFIP units' TANF income. See Appendix A for details. Range = $(0, 1)$ 0 = No 1 = Yes

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Demographics and Sample Weights
PURE_PA	C	INDICATOR OF PURE CASH PUBLIC ASSISTANCE STATUS Range = (0, 1) 0 = No 1 = Yes A unit is pure cash public assistance (pure PA) when everyone in the unit receives TANF, GA, or SSI or unit has TANF income and every adult receives TANF, GA, or SSI.
RCNTACTN	R	MOST RECENT ACTION ON CASE Range = (20010301, 20150930) Date the case was certified or recertified for participation in sample month under review (in yyyymmdd format).
REP_SYS	R	REPORTING REQUIREMENT Range = (1, 10) 1 = \$25 change reporting 2 = \$80 change in earned income 3 = \$100 change in earned income 4 = Status reporting 5 = 5-hour change in hours worked and expected to continue over a month 6 = Simplified reporting (exceeding 130 percent of income poverty guidelines) 7 = Quarterly reporting 8 = Monthly reporting 9 = Transitional benefits (no reporting requirement) 10 = Other
REVNUM	R	STATE QC REVIEW NUMBER (not retained on public use file) Range = (1, 910576)
SSI_CAP	C	INDICATOR OF SSI-CAP PARTICIPATION We recommend caution when using SSI_CAP with the understanding that it may underestimate the actual number of SSI-CAP units in some States. See Appendix A for details. Range = (0, 3) 0 = Not in SSI-CAP 1 = SSI-CAP case with standard shelter expenses 2 = SSI-CAP case with standard benefit, consistent with program rules 3 = SSI-CAP case with standard benefit, inconsistent with program rules

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Unit Demographics and Sample Weights
STATUS	R	STATUS OF CASE ERROR FINDINGS Range = (1, 3) 1 = Amount correct 2 = Overissuance 3 = Underissuance
YRMONTH	R	SAMPLE YEAR AND MONTH Range = (201410, 201509) Allows user to select one or more sample months from full- year file for analyses. The YRMONTH variable is a six-digit code; the first four digits indicate the sample year and the last two indicate the month. To select observations from January 2015, for example, YRMONTH should equal 201501.

Unit demographics and sample weights

AK_AREA	С	ALASKA REGION (not retained on public use file) Range = (1, 3) 1 = Alaska Rural I 2 = Alaska Rural II 3 = Alaska Urban
CERTHHSZ	R	CERTIFIED UNIT SIZE Range = (1, 29)
COMPOSITION	С	UNIT COMPOSITION Range = (0, 5) 0 = No children 1 = Child(ren) only 2 = Child(ren) and one male adult 3 = Child(ren) and one female adult 4 = Child(ren) and married unit head (spouse may be nonparticipating; includes married teens) 5 = Child(ren) with other multiple adults
COUNTYCD	C	FIPS CODE FOR COUNTY (not retained on public use file) Range = (1, 840)
СТРКНН	C	NUMBER OF PEOPLE IN HOUSEHOLD Range = (1, 29) Number of people in household with nonmissing person-level information.

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Demographics and Sample Weights
FSDIS	C	INDICATOR OF NON-ELDERLY INDIVIDUALS WITH DISABILITIES IN UNIT Range = (0, 1) We recommend caution when using FSDIS with the understanding that it likely undercounts the number of units with non-elderly individuals with disabilities. 0 = No 1 = Yes A SNAP unit with one or more individuals that are defined as disabled (DISi = 1).
FSELDER	С	INDICATOR OF ELDERLY INDIVIDUALS IN UNIT Range = (0, 1) 0 = No 1 = Yes A SNAP unit with one or more elderly individuals.
FSKID	С	INDICATOR OF CHILDREN IN UNIT Range = (0, 1) 0 = No 1 = Yes A SNAP unit with one or more children under age 18.
FSNDIS	C	NUMBER OF NON-ELDERLY INDIVIDUALS WITH DISABILITIES IN UNIT We recommend using FSNDIS with the understanding that it likely undercounts the number of non-elderly individuals with disabilities and the number of units containing such individuals. See Appendix A for details. Range = (0, 9) Number of individuals in the unit that are defined as disabled (DISi = 1).
FSNDISCA	C	NUMBER OF ADULTS AGE 18 to 49 WITHOUT DISABILITIES IN CHILDLESS UNITS We recommend using FSNDISCA with the understanding that it likely overcounts the number of adults without disabilities. See Appendix A for details. Range = (0, 5) Number of adults age 18 to 49 without disabilities in childless SNAP units.
FSNELDER	С	NUMBER OF ELDERLY INDIVIDUALS IN UNIT Range = (0, 3) Number of people age 60 or older in SNAP unit.

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Demographics and Sample Weights
FSNGMOM	С	INDICATOR OF SINGLE-FEMALE-HEADED UNIT Range = (0, 1) 0 = No 1 = Yes A SNAP unit with one adult and one or more children; the adult is female.
FSNK0T4	С	NUMBER OF PRESCHOOL-AGE CHILDREN IN UNIT Range = (0, 4) Number of children under age 5 in SNAP unit.
FSNK5T17	С	NUMBER OF SCHOOL-AGE CHILDREN IN UNIT Range = (0, 24) Number of children age 5 to 17 in SNAP unit.
FSNKID	С	NUMBER OF CHILDREN IN UNIT Range = (0, 25) Number of children under age 18 in SNAP unit.
FSNONCIT	С	NUMBER OF NONCITIZENS IN UNIT Range = (0, 12) Number of people with FSAFILi = 1 and CTZNi >= 3.
FSUSIZE	С	CONSTRUCTED CERTIFIED UNIT SIZE Range = (1, 29) Number of people with FSAFILi = 1.
FYWGT	С	WEIGHT USED FOR FULL-YEAR CALCULATIONS Range = (5.75, 4423.22) Calculated as HWGT/12 for all States.
HWGT	С	MONTHLY SAMPLE WEIGHT Range = (68.96, 53078.64) Allows user to replicate total monthly caseloads as reflected in SNAP Program Operations data. If the reference period for the analysis is longer than one calendar month, the weight field must be divided by the number of months being analyzed to calculate an average monthly value for that reference period.
NONCIT_HEAD	С	UNIT HEAD CITIZENSHIP INDICATOR Range = (0, 2) 0 = Head of unit is a citizen 1 = Head of unit is a participating noncitizen 2 = Head of unit is a nonparticipating noncitizen
RAWHSIZE	R	REPORTED NUMBER OF PEOPLE IN HOUSEHOLD Range = (1, 29)

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Demographics and Sample Weights
REGION	С	CONSTRUCTED CENSUS REGION CODE Range = (1, 4) 1 = Northeast 2 = Midwest 3 = South 4 = West See Appendix E (Table E.3) for a list of States in each region.
REGIONCD	R	FNS REGION CODE Range = (1, 7) 1 = Northeast 2 = Mid-Atlantic 3 = Southeast 4 = Midwest 5 = Southwest 6 = Mountain Plains 7 = West See Appendix E (Table E.2) for a list of States in each region.
STATE	R	FIPS CODE FOR STATE OR TERRITORY Range = (1, 78) See Appendix E (Table E.1) for FIPS code list.
STATENAME	С	STATE OR TERRITORY State or territory name. See Appendix E (Table E.1) for list.
STRATUM	R	STRATUM IDENTIFICATION Range = $(0, 0)$ Codes for distinct parts of States with stratified samples; codes in States that are not stratified are recoded to 0 .
TANF_IND	С	INDICATOR OF TANF RECEIPT FOR UNIT Range = (0, 1) 0 = No 1 = Yes TANF_IND = 1 if FSTANF > 0 or MN_FIP = 1
TPOV	С	GROSS INCOME/POVERTY LEVEL RATIO Range = (0, 695) TPOV = FSGRINC/NETSCRN*100, rounded to nearest integer. If FSGRINC = 0, then TPOV = 0. Otherwise if TPOV rounds to 0, TPOV is set to 1.

<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Demographics and Sample Weights
URBRUR	C	URBAN/RURAL INDICATOR (not retained on public use file) We recommend caution when using this variable for all State-level tabulations, and recommend against using this variable for State-level tabulations in Alabama, Nebraska, Nevada, Vermont, Utah, and Washington. See Appendix A for details. Range = (1, 3) Location of agency at which unit's SNAP application was processed. 1 = Metropolitan (at least one urbanized area of 50,000 or more population and adjacent territory with a high degree of social and economic integration with the core as measured by commuting ties) 2 = Micropolitan (at least one urban cluster of at least 10,000 but fewer than 50,000 people and adjacent territory with a high degree of social and economic integration with the core as measured by commuting ties) 3 = Rural (not metropolitan or micropolitan)
WRK_POOR	С	INDICATOR OF WORKING POOR UNIT Range = (0, 1) 0 = No 1 = Yes All SNAP units with countable earnings (FSEARN) or multiple indicators of earnings in the unedited SNAP QC file.

<u>VARIABLE</u> ORIGIN DESCRIPTION Detailed Codebook Unit Countable Income

Unit countable income (monthly dollar amounts)

FSCONT	С	COUNTABLE UNIT INCOME FROM CONTRIBUTIONS Range = (0, 2330) Sum of CONT1 through CONT29
FSCSUPRT	С	COUNTABLE UNIT CHILD SUPPORT PAYMENT INCOME Range = (0, 2934) Sum of CSUPRT1 through CSUPRT29
FSDEEM	С	COUNTABLE UNIT DEEMED INCOME Range = (0, 2306) Sum of DEEM1 through DEEM29
FSDIVER	С	COUNTABLE UNIT STATE DIVERSION PAYMENTS Range = (0, 481) Sum of DIVER1 through DIVER29
FSEARN	С	COUNTABLE UNIT EARNED INCOME Range = (0, 7628) Sum of FSWAGES, FSSLFEMP, and FSOTHERN
FSEDLOAN	С	COUNTABLE UNIT INCOME FROM EDUCATIONAL GRANTS AND LOANS Range = (0, 1832) Sum of EDLOAN1 through EDLOAN29
FSEITC	C	COUNTABLE UNIT INCOME FROM EARNED INCOME TAX CREDIT Range = (0, 900) Sum of EITC1 through EITC29
FSENERGY	C	COUNTABLE UNIT ENERGY ASSISTANCE INCOME Range = (0, 141) Sum of ENERGY1 through ENERGY29
FSGA	C	COUNTABLE UNIT GENERAL ASSISTANCE BENEFITS Range = (0, 1518) Sum of GA1 through GA29
FSGRINC	С	FINAL GROSS COUNTABLE UNIT INCOME Range = (0, 9106) Total monthly gross income of unit (sum of FSEARN and FSUNEARN)

VARIABLE	<u>ORIGIN</u>	<u>DESCRIPTION</u>	Detailed Codebook Unit Countable Income
FSNETINC	С	FINAL NET COUNTABLE UNIT IN Range = (0, 7426) Total monthly income of unit after approximately Calculated as FSGRINC-FSTOTDED Coded as missing for MFIP units and States with standard SSI-CAP benefits	olying deductions. but not less than 0. for SSI-CAP units in
FSOTHERN	С	COUNTABLE UNIT OTHER EARN Range = (0, 1811) Sum of OTHERN1 through OTHERN	
FSOTHGOV	С	COUNTABLE UNIT INCOME FROM GOVERNMENT BENEFITS Range = (0, 2424) Sum of OTHGOV1 through OTHGOV	
FSOTHUN	С	COUNTABLE UNIT OTHER UNEA Range = (0, 4904) Sum of OTHUN1 through OTHUN29	
FSSLFEMP	С	COUNTABLE UNIT SELF-EMPLO Range = (0, 4944) Sum of SLFEMP1 through SLFEMP2	
FSSOCSEC	С	COUNTABLE UNIT SOCIAL SECU Range = (0, 3526) Sum of SOCSEC1 through SOCSEC2	
FSSSI	С	COUNTABLE UNIT SSI BENEFITS Range = (0, 2792) Sum of SSI1 through SSI29	
FSTANF	С	COUNTABLE UNIT TANF PAYME We recommend caution when using and California. See Appendix A for Range = (0, 1484) Sum of TANF1 through TANF29	FSTANF in Minnesota
FSUNEARN	С	COUNTABLE UNIT UNEARNED IN Range = (0, 6878) Sum of FSCONT, FSCSUPRT, FSDE FSGA, FSOTHGOV, FSOTHUN, FSTANF, FSUNEMP, FSVET, FSWCFSENERGY, and FSWGESUP	EEM, FSEDLOAN, SOCSC, FSSSI,

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Countable Income
FSUNEMP	С	COUNTABLE UNIT UNEMPLOYMENT COMPENSATION BENEFITS Range = (0, 2756) Sum of UNEMP1 through UNEMP29
FSVET	С	COUNTABLE UNIT VETERANS' BENEFITS Range = (0, 3509) Sum of VET1 through VET29
FSWAGES	С	COUNTABLE UNIT WAGES AND SALARIES Range = (0, 7628) Sum of WAGES1 through WAGES29
FSWCOMP	С	COUNTABLE UNIT WORKERS' COMPENSATION BENEFITS Range = (0, 2361) Sum of WCOMP1 through WCOMP29
FSWGESUP	С	COUNTABLE UNIT WAGE SUPPLEMENTATION INCOME Range = (0, 1469) Sum of WGESUP1 through WGESUP29
RAWGROSS	R	REPORTED GROSS COUNTABLE UNIT INCOME Range = (0, 6607) Reported total monthly countable income of unit before applying deductions (see FSGRINC for final value)
RAWNET	R	REPORTED NET COUNTABLE UNIT INCOME Range = (0, 5057) Reported total monthly countable income of unit after applying deductions (see FSNETINC for final value)

<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Countable Assets
Unit countable	assets	
FSASSET	С	TOTAL COUNTABLE ASSETS UNDER STATE RULES We recommend caution when using FSASSET. See Appendix A for more details. Range = (0, 20111) Sum of LIQRESOR, FSVEHAST, OTHNLRES, and REALPROP
FSVEHAST	С	COUNTABLE NON-EXCLUDED VEHICLES' VALUE UNDER STATE RULES We recommend caution when using FSVEHAST. See Appendix A for more details. Range = (0, 2850)
LIQRESOR	C	COUNTABLE LIQUID ASSETS UNDER STATE RULES Range = (0, 20111)
OTHNLRES	C	COUNTABLE OTHER NONLIQUID ASSETS UNDER STATE RULES Range = (0, 2200)
RAWLQRES	R	REPORTED LIQUID ASSETS Range = (0, 55681)
RAWOTRES	R	REPORTED OTHER NONLIQUID ASSETS Range = (0, 47760)
RAWRPROP	R	REPORTED REAL PROPERTY Range = (0, 47760) Does not include home
RAWVHAST	R	REPORTED NONEXCLUDED VEHICLES' VALUE Range = (0, 2850)
REALPROP	С	COUNTABLE REAL PROPERTY UNDER STATE RULES Range = (0, 4710) Does not include home

Detailed Codebook **VARIABLE** ORIGIN **DESCRIPTION** Unit Countable Assets **VEHICLEA** R REPORTED CATEGORY FOR FIRST VEHICLE We recommend against using VEHICLEA. See Appendix A for more details. Range = (1, 8)1 = No vehicle2 = Vehicle exempt because used for producing income, as a home, to transport a physically disabled member, for longdistance travel (other than commuting), or to carry fuel or water 3 = Vehicle exempt because inaccessible resource (equity value \$1,500 or less) 4 = Vehicle exempt due to categorical eligibility 5 = Vehicle excluded under State TANF standard (vehicle of non-categorically eligible unit members only) 6 = Vehicle registered and attributable to an adult unit member or used by a person under age 18 for employment or education (subject to fair market value only) 7 = Vehicle not registered (equity test only) 8 = Vehicle not excluded and not included in code 6 (subject to fair market value or equity test, whichever is greater) VEHICLEB R REPORTED CATEGORY FOR SECOND VEHICLE We recommend against using VEHICLEB. See Appendix A for more details. Range = (1, 8)1 = No vehicle2 = Vehicle exempt because used for producing income, as a home, to transport a physically disabled member, for longdistance travel (other than commuting), or to carry fuel or water 3 = Vehicle exempt because inaccessible resource (equity value \$1,500 or less) 4 = Vehicle exempt due to categorical eligibility 5 = Vehicle excluded under State TANF standard (vehicle of

- non-categorically eligible unit members only)
- 6 = Vehicle registered and attributable to an adult unit member or used by a person under age 18 for employment or education (subject to fair market value only)
- 7 = Vehicle not registered (equity test only)
- 8 = Vehicle not excluded and not included in code 6 (subject to fair market value or equity test, whichever is greater)

Unit expenses and deductions

ERN_INC_DED_PCT	С	PERCENTAGE USED TO CALCULATE EARNINGS DEDUCTION Range = (0.20, 0.50) 0.50 for MFIP participants; 0.20 for all other SNAP participants.
EXCL_FSCSDED	С	CHILD SUPPORT EXCLUDED FROM GROSS INCOME Range = (0, 762) Child support expenses excluded before gross income test rather than before net income test for eligibility
FSCSDED	С	CHILD SUPPORT EXPENSE DEDUCTION Range = (0, 4000) Coded as missing for MFIP units and for units participating in an SSI-CAP program in States using standard SSI-CAP benefits
FSCSEXP	R	REPORTED CHILD SUPPORT EXPENSE DEDUCTION Range = (0, 4000) (Some States treat child support payments to non-unit members as an income exclusion rather than a deduction. See EXCL_FSCSDED and FSCSDED for final values.)
FSDEPDED	R	REPORTED DEPENDENT CARE DEDUCTION We recommend against using this variable for State-level tabulations. See Appendix A for more details. Range = (0, 2400) Some values have been edited to obtain consistency with DPCOST1 to DPCOST29 and to improve the final benefit calculation. See Appendix B for details. Coded as missing for all MFIP and SSI-CAP units.
FSDEPDE2	С	MARGINAL EFFECTIVENESS OF DEPENDENT CARE DEDUCTION ³⁵ Range = (0, 2855) Calculated as FSDEPDE2 = NEWNET-FSNETINC, where NEWNET = MAX (0, FSGRINC-FSSLT3-FSERNDED- FSMEDDED-FSSTDDED-FSCSDED- HOMELESS_DED) and where FSSLT3 is the shelter deduction calculated without FSDEPDED. Coded as missing for all MFIP and SSI-CAP units.

³⁵ The marginal effectiveness variables are calculated as the difference between the actual calculated net income and what the net income would have been without the deduction. Given that the combined value of deductions to which a unit is entitled sometimes exceeds the gross income received by the unit, the marginal effectiveness variables give a more accurate picture of the impact of the deductions.

FINAL REPORT

<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Expenses and Deductions
FSERNDED	С	CALCULATED EARNED INCOME DEDUCTION Range = (0, 1525) Calculated as FSERNDED = ERN_INC_DED_PCT*FSEARN, rounded to nearest integer. The deduction equals 50 percent of total earned income for MFIP participants ³⁶ and 20 percent of total earned income for all others. Coded as missing for all SSI- CAP units.
FSERNDE2	C	MARGINAL EFFECTIVENESS OF EARNED INCOME DEDUCTION Range = (0, 1525) Calculated as FSERNDE2 = NEWNET-FSNETINC, where NEWNET = MAX (0, FSGRINC-FSSLT2-FSDEPDED- FSMEDDED-FSSTDDED-FSCSDED- HOMELESS_DED) and where FSSLT2 is the shelter deduction calculated without FSERNDED. Coded as missing for all MFIP and SSI-CAP units.
FSMEDDED	С	CALCULATED MEDICAL DEDUCTION Range = (0, 2498) The deduction is for units with elderly members or individuals with disabilities only; the entry for medical expenses should include only expenses in excess of \$35. Calculated as FSMEDDED = MAX(0, FSMEDEXP) Coded as missing for all MFIP and SSI-CAP units.
FSMEDDE2	С	MARGINAL EFFECTIVENESS OF MEDICAL DEDUCTION Range = (0, 2735) Calculated as FSMEDDE2 = NEWNET-FSNETINC, where NEWNET = MAX (0, FSGRINC-FSSLT4-FSDEPDED- FSERNDED-FSSTDDED-FSCSDED- HOMELESS_DED) and where FSSLT4 is the shelter deduction calculated without FSM EDDED. Coded as missing for all MFIP and SSI-CAP units.
FSMEDEXP	R	REPORTED MEDICAL EXPENSES Range = (0, 2498) Allowable medical expenses in excess of \$35 for elderly adults or individuals with disabilities.

 $^{^{\}rm 36}$ The MFIP earned income deduction was 50 percent in FY 2015.

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Expenses and Deductions
FSSLTDED	C	CALCULATED EXCESS SHELTER DEDUCTION Range = (0, 3122) Set to 0 if HOMEDED = 3; otherwise set to XCOST for units with elderly members or individuals with disabilities and equal to the minimum of XCOST and SHELCAP for units without elderly members or individuals with disabilities, where XCOST = MAX(0, FSSLTEXP-HALFNET) and HALFNET = MAX (0,ROUND(FSGRINC-FSSTDDED- FSERNDED-FSDEPDED-FSMEDDED- FSCSDED)/2) The final value of FSSLTDED is rounded to nearest integer. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits.
FSSLTDE2	С	MARGINAL EFFECTIVENESS OF EXCESS SHELTER DEDUCTION Range = (0, 2012) Calculated as FSSLTDE2 = NEWNET-FSNETINC, where NEWNET = MAX (0,FSGRINC-FSDEPDED-FSERNDED-FSMEDDED-FSSTDDED-FSCSDED-HOMELESS_DED). Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits.
FSSLTEXP	С	CALCULATED SHELTER EXPENSES Range = (0, 4324) Sum of RENT and UTIL
FSSTDDED	С	STANDARD DEDUCTION Range = (137, 443) Varies by region. See Appendix F for values. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits.
FSSTDDE2	C	MARGINAL EFFECTIVENESS OF STANDARD DEDUCTION Range = (0, 665) Calculated as FSSTDDE2 = NEWNET – FSNETINC, where NEWNET = MAX (0, FSGRINC – FSSLT1 – FSDEPDED – FSERNDED – FSMEDDED – FSCSDED – HOMELESS_DED) and where FSSLT1 is the shelter deduction calculated without FSSTDDED. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits.

VARIABLE	ORIGIN	DESCRIPTION Detailed Codebook Unit Expenses and Deductions
FSTOTDED	С	TOTAL DEDUCTIONS Range = (0, 4555) Sum of FSSTDDED, FSERNDED, FSDEPDED, FSSLTDED, FSMEDDED, HOMELESS_DED, and FSCSDED. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits.
FSTOTDE2	С	MARGINAL EFFECTIVENESS OF TOTAL DEDUCTION Range = (0, 3885) Calculated as FSGRINC-FSNETINC. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits.
HOMEDED	R	INDICATOR OF HOMELESSNESS Range = (1, 3) 1 = Not homeless 2 = Homeless, not receiving homeless shelter allowance 3 = Homeless, receiving homeless shelter allowance
HOMELESS_DED	С	AMOUNT OF HOMELESS DEDUCTION Range = (0, 143) Positive value only for those with HOMEDED = 3 Coded as missing for all MFIP and SSI-CAP units.
RAWERND	R	REPORTED EARNED INCOME DEDUCTION Range = (0, 999) (See FSERNDED for final earned income deduction value.)
RENT	R	RENT/MORTGAGE AMOUNT Range = (0, 3944) Some values for SSI-CAP units have been edited to apply standard shelter allowances.
SHELCAP	С	MAXIMUM ALLOWABLE SHELTER EXPENSE DEDUCTION Range = (386, 782) SHELCAP varies by region. See Appendix F for values.
SHELDED	R	REPORTED SHELTER DEDUCTION Range = (0, 27835) (See FSSLTDED for the final value)

SUA1 R STANDARD UTILITY ALLOWANCE-USAGE AND ENTITLEMENT Range = (1, 9) 1 = No utilities and no LIHEAA assistance 2 = Uses actual expenses 3 = Uses higher standard based on LIHEAA assistance 4 = Uses lower standard 6 = Uses telephone-only standard 7 = Uses individual standards 8 = Uses individual standards 8 = Uses higher standard, LIHEAA assistance status unknown 9 = Other Some values have been edited to obtain consistency with UTIL. See Appendix B for more details. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits. LIHEAA is the Low Income Home Energy Assistance Act of 1981. Some State programs may have another name, such as Home Energy Assistance Program (HEAP). Higher standard is an SUA based upon payment of heating or cooling and includes all utilities. Lower standard is an SUA based upon all utilities but is for households that do not incur heating or cooling or receive LIHEAA. SUA2 R STANDARD UTILITY ALLOWANCE-PRORATED Range = (1, 2) 1 = Not prorated 2 = Prorated Some values have been edited to obtain consistency with UTIL. See Appendix B for more details. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits. UTIL R UTILITY AMOUNT Range = (0, 1300) Some values have been edited to improve the final benefit calculation. See Appendix B for more details.	<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Unit Expenses and Deductions
SUA2 R STANDARD UTILITY ALLOWANCE-PRORATED Range = (1, 2) 1 = Not prorated 2 = Prorated Some values have been edited to obtain consistency with UTIL. See Appendix B for more details. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits. UTIL R UTILITY AMOUNT Range = (0, 1300) Some values have been edited to improve the final benefit	SUA1	R	STANDARD UTILITY ALLOWANCE-USAGE AND ENTITLEMENT Range = (1, 9) 1 = No utilities and no LIHEAA assistance 2 = Uses actual expenses 3 = Uses higher standard based on LIHEAA assistance 4 = Uses higher standard and does not receive LIHEAA assistance 5 = Uses lower standard 6 = Uses telephone-only standard 7 = Uses individual standards 8 = Uses higher standard, LIHEAA assistance status unknown 9 = Other Some values have been edited to obtain consistency with UTIL. See Appendix B for more details. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States that use standard SSI-CAP benefits. LIHEAA is the Low Income Home Energy Assistance Act of 1981. Some State programs may have another name, such as Home Energy Assistance Program (HEAP). Higher standard is an SUA based upon payment of heating or cooling and includes all utilities. Lower standard is an SUA based upon all utilities but is for households that do not incur heating or cooling or receive
Range = $(0, 1300)$ Some values have been edited to improve the final benefit	SUA2	R	Range = (1, 2) 1 = Not prorated 2 = Prorated Some values have been edited to obtain consistency with UTIL. See Appendix B for more details. Coded as missing for MFIP units and for units participating in an SSI-CAP program in States
	UTIL	R	UTILITY AMOUNT Range = (0, 1300) Some values have been edited to improve the final benefit

VARIABLE	<u>ORIGIN</u>	DESCRIPTION	Detailed Codebook Unit Benefits
Unit benefits			
AMTERR	R	AMOUNT OF BENEFIT IN ERROR Range = (0, 777) Dollar amount of any identified error, or between the benefits the State authorized State should have authorized. Before FY \$25 were recorded.	and the benefits the
ASSLIM	С	ASSET LIMIT Range = (2250, 5000) SNAP eligibility limit. Categorically elig subject to an asset limit. See Appendix F	
BENMAX	С	MAXIMUM BENEFIT AMOUNT Range = (194, 4235) The maximum possible benefit for a unit size and region. See Appendix F for sche	
FSASTEST	С	INDICATOR OF PASSING ASSET TES Range = (0, 1) 0 = No 1 = Yes	ST
FSBEN	C	FINAL CALCULATED BENEFIT Range = (1, 4235) Calculated as FSBEN = MAX(minimum BENMAX-ROUND (.3*FSNETINC)) if Less. Otherwise, FSBEN = MAX (0, B) (.3*FSNETINC)) for all units, except for units participating in an SSI-CAP program standard SSI-CAP benefits where the ber using a State-specific formula.	FSUSIZE is 2 or ENMAX-ROUND MFIP units and for m in States that use
FSGRTEST	С	INDICATOR OF PASSING GROSS INC Range = (0, 1) 0 = No 1 = Yes	COME TEST

<u>VARIABLE</u>	<u>ORIGIN</u>	<u>DESCRIPTION</u>	Detailed Codebook Unit Benefits
FSMINBEN	C	RECEIVED MINIMUM BENEFIT Range = (0, 1) 0 = No 1 = Yes FSMINBEN = 1 when FSBEN = 8 pero one-person benefit for the unit's geogra FSUSIZE = 1 or 2. FSMINBEN is alway participating in an SSI-CAP program in standard SSI-CAP benefits.	aphic region and ays set to 0 for units
FSNETEST	C	INDICATOR OF PASSING NET INCORANGE = (0, 1) 0 = No 1 = Yes Coded as missing for MFIP units and for an SSI-CAP program in States that use benefits.	or units participating in
GROSSCRN	С	GROSS INCOME SCREEN Range = (1265, 13584) SNAP eligibility limit determined by useligible units and those with elderly me with disabilities are not subject to gross Appendix F for values.	embers or individuals
NETSCRN	С	NET INCOME SCREEN Range = (973, 10460) SNAP eligibility limit determined by use eligible units are not subject to net incompendix F for values.	<u> </u>
RAWBEN	R	REPORTED SNAP BENEFIT RECEIVE Range = (0, 9998) Reported amount of SNAP benefits that to receive during sample month (see FS	t the unit was certified

Person-level characteristics

ABWDST1 to ABWDST29	racteris R	ABAWD STATUS We recommend caution when using ABWDSTi, and recommend combining values ABWDSTi = 2 through 7, unless the specific State policies in effect regarding ABAWDs are known. Additionally, we recommend against using ABWDSTi for State-level tabulations for Maryland, Nevada, New Hampshire, New Jersey, North Dakota, Texas, West Virginia, and Wyoming. See Appendix A for more details. Range = (1, 6) Person 1 through Person 29 1 = Not an able-bodied adult without dependents (ABAWD)
		2 = ABAWD in a waived area 3 = Exempt based on 15 percent option 4 = ABAWD meeting work requirements 5 = ABAWD in 1st 3 months 6 = ABAWD in 2nd 3 months 7 = ABAWD who has exhausted time-limited benefits
AGE1 to AGE29	R	AGE Range = (0, 98) Person 1 through Person 29 0 = Age less than 1 year 1 to 97 = Age in years 98 = Age 98 years or older
CTZN1 to CTZN29	R	CITIZENSHIP STATUS Range = (1, 10) Person 1 through Person 29 1 = US-born citizen 2 = Naturalized citizen 3 = Legal permanent resident with 40 quarters of work, military service, five years legal U.S. residency, disability, or under age 18 5 = Person admitted as refugee, granted asylum, or given stay of deportation 6 = Other eligible noncitizen 7 = Noncitizen legally in U.S. who does not meet one of the above codes and is not receiving SNAP benefits but whose income and resources must be considered in determining benefits 8 = Other ineligible legal noncitizen (for example, visitor, tourist, student, diplomat) 9 = Undegraphed populitizen

9 = Undocumented noncitizen 10 = Noncitizen, status unknown

<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Person-Level Characteristics
DIS1 to DIS29	C	PERSON-LEVEL DISABILITY INDICATOR We recommend using DISi with the understanding that it likely undercounts the number of non-elderly individuals with disabilities. See Appendix A for more details. Range = (0, 1) Person 1 through Person 29 0 = Not disabled 1 = Disabled Non-elderly individuals identified as disabled using receipt of SSI or a combination of hours worked, work registration status, receipt of Social Security, veterans' benefits, or workers' compensation, and/or unit medical expense deduction. See Appendix B for details.
DPCOST1 to DPCOST29	R	REPORTED DEPENDENT CARE COST We recommend against using DPCOSTi for State-level tabulations. See Appendix A for more details. Range = (0, 1000) Person 1 through Person 29 Some values have been edited to obtain consistency with FSDEPDED. See Appendix B for details.
EMPRG1 to EMPRG29	R	SNAP EMPLOYMENT AND TRAINING PROGRAM STATUS We recommend caution when using EMPRGi. See Appendix A for more details. Range = (0, 9) Person 1 through Person 29 0 = Not participating in E&T 1 = Participating in non–SNAP E&T (such as TANF) 2 = SNAP job search or job search training 3 = SNAP E&T workfare or work experience 4 = SNAP E&T work supplementation 5 = SNAP E&T education leading to high school diploma or GED 6 = SNAP E&T postsecondary education leading to degree or certificate 7 = SNAP E&T remedial education (including adult education and English lessons not leading to degree) 8 = SNAP E&T vocational training 9 = Other

<u>VARIABLE</u>	<u>ORIGIN</u>	<u>DESCRIPTION</u>	Detailed Codebook Person-Level Characteristics
EMPSTA1 to EMPSTA29	R	EMPLOYMENT STATUS-TY Range = (1, 8) Person 1 through Person 29 We recommend caution when Appendix A for more details. 1 = Not in labor force and not lo 2 = Unemployed and looking fo 3 = Active-duty military 4 = Migrant farm labor 5 = Nonmigrant farm labor 6 = Self-employed, farming 7 = Self-employed, nonfarming 8 = Employed by other	using EMPSTAi. See
EMPSTB1 to EMPSTB29	R	EMPLOYMENT STATUS-AM Range = (1, 5) Person 1 through Person 29 We recommend caution when Appendix A for more details. 1 = Not employed 2 = 1-19 hours/week 3 = 20-29 hours/week 4 = 30-39 hours/week 5 = Full-time (40 hours or more)	using EMPSTBi. See

FSAFIL29

FSAFIL1 to R SNAP CASE AFFILIATION

Range = (1, 99)

Person 1 through Person 29

We recommend against using FSAFILi for State-level tabulations of nonparticipants in West Virginia, and recommend caution when using it for tabulations of nonparticipants in Arkansas, Hawaii, Minnesota, Montana, Pennsylvania, South Dakota, West Virginia, and Wyoming. See Appendix A for more details.

- 1 = Eligible member of SNAP case under review and entitled to receive benefits
- 2 = Eligible SNAP participant in another unit, not currently under review (code added by Mathematica for use in certain SNAP-CAP units)
- 4 = Member is ineligible noncitizen and not participating in State-funded SNAP
- 5 = Member not paying/cooperating with child support agency
- 6 = Member is ineligible striker
- 7 = Member is ineligible student
- 8 = Member disqualified for program violation
- 9 = Member ineligible to participate due to disqualification or failure to meet work requirements (work registration, E&T, acceptance of employment, employment status/job availability, voluntary quit/reducing work effort, workfare/comparable workfare)
- 10 = ABAWD time limit exhausted and ABAWD ineligible to participate due to failure to meet ABAWD work requirements, to work at least 20 hours per week, to participate in at least 20 hours per week in qualifying educational training activities, or to participate in workfare
- 11 = Fleeing felon or parole and probation violator
- 13 = Convicted drug felon
- 14 = Social Security Number disqualified
- 15 = SSI recipient in California
- 16 = Prisoner in detention center
- 17 = Foster care
- 18 = Member is ineligible noncitizen and participating in State-funded SNAP
- 19 = Individual in the home but not part of SNAP household
- 20 = Ineligible ABAWD, originally coded as participant (code added by Mathematica Policy Research)
- 21 = Ineligible noncitizen, originally coded as participant (code added by Mathematica Policy Research)
- 99 = Unknown

<u>VARIABLE</u>	<u>ORIGIN</u>	<u>DESCRIPTION</u>	Detailed Codebook Person-Level Characteristics
FSUN1 to FSUN29	C	POSITION OF HEAD OF SNAP Range = (0, 8) Person 1 through Person 29 Identifies the index position of the head is defined as the first person in no one in unit has RELi = 1, as the are no adults in unit, the oldest chi same for everyone in unit. For example, and person in the household, FS unit. FSUNi = 0 for any individual part of the SNAP unit.	head of the SNAP unit. The in unit with RELi = 1 or, if if if if if if if if there ild is the head. FSUNi is the imple, if unit head is the SUNi = 2 for everyone in
NDISCA1 to NDISCA29	C	ADULT AGE 18 TO 49 WITHOUT CHILDLESS UNIT STATUS We recommend using NDISCAit that it likely overcounts the number disabilities. See Appendix A for example = (0, 2) Person 1 through Person 29 0 = Not in universe (AGEi<18 or 1 = Adult age 18 to 49 without decented age 18 to 49, but not adult we childless unit	with the understanding aber of adults without details. r AGEi>49) lisabilities in childless unit

VARIABLEORIGINDESCRIPTIONDetailed Codebook
Person-Level Characteristics

RACETH1 to RACETH29

R RACE/ETHNICITY

Range = (1, 22)

Person 1 through Person 29

We recommend against using RACETHi. See Appendix A for more details.

- 1 = Racial/ethnic data not available because application was not found
- 2 = Not recorded on application

Not Hispanic or Latino

- 3 = American Indian or Alaska Native
- 4 = Asian
- 5 = Black or African American
- 6 = Native Hawaiian or other Pacific Islander
- 7 = White

Multiple Races Reported

- 8 = (American Indian or Alaska Native) and white
- 9 = Asian and white
- 10 = (Black or African American) and white
- 11 = (American Indian or Alaska Native) and (black or African American)
- 12 = Respondent reported more than one race and does not fit into above categories (codes 8 through 11)

Hispanic or Latino

- 13 = (Hispanic or Latino) and (American Indian or Alaska Native)
- 14 = (Hispanic or Latino) and Asian
- 15 = (Hispanic or Latino) and (black or African American)
- 16 = (Hispanic or Latino) and (Native Hawaiian or other Pacific Islander)
- 17 = (Hispanic or Latino) and white

Multiple Races Reported

- 18 = (Hispanic or Latino) and (American Indian or Alaska Native) and white
- 19 = (Hispanic or Latino) and Asian and white
- 20 = (Hispanic or Latino) and (black or African American) and white
- 21 = (Hispanic or Latino) and (American Indian or Alaska Native) and (black or African American)
- 22 = (Hispanic or Latino) and respondent reported more than one race and does not fit into above categories (codes 18 through 21)

<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Person-Level Characteristics
REL1 to REL29	R	RELATIONSHIP TO HEAD OF HOUSEHOLD Range = (1, 7) Person 1 through Person 29 1 = Head of household 2 = Spouse 3 = Parent 4 = Daughter, stepdaughter, son, or stepson 5 = Other related person (brother, sister, niece, nephew, grandchild, great-grandchild, cousin) 6 = Foster child 7 = Unrelated person
SEX1 to SEX29	R	SEX Range = (1, 2) Person 1 through Person 29 1 = Male 2 = Female
WORK1 to WORK29	C	PERSON-LEVEL WORKING INDICATOR Range = (0, 1) Person 1 through Person 29 0 = No 1 = Yes Identifies individuals who are coded as being employed (EMPSTAi > 2), having positive earnings (WAGESi + OTHERNi + SLFEMPi > 0), and working one or more hours per week (EMPSTBI > 1).
WRKREG1 to WRKREG29	R	WORK REGISTRATION STATUS Range = (1, 6) Person 1 through Person 29 We recommend combining values of WRKREGi = 1 and WRKREGi = 2 when tabulating work registration status. See Appendix A for more details. 1 = Federal exemption for disability 2 = Federal exemption for reason other than disability 3 = Work registrant, not E&T participant 4 = Work registrant, voluntary E&T participant 5 = Work registrant, mandatory E&T participant 6 = Should have been registered, but was not registered

Detailed Codebook VARIABLE ORIGIN DESCRIPTION Person-Level Characteristics YRSED1 to R HIGHEST EDUCATIONAL LEVEL COMPLETED YRSED29 We recommend against using YRSEDi. See Appendix A for more details. Range = (0, 14)Person 1 through Person 29 0 = None1 = Grade 12 = Grade 23 = Grade 34 = Grade 45 = Grade 56 = Grade 67 = Grade 78 = Grade 89 = Grade 910 = Grade 1011 = Grade 11 12 = High school graduate or GED 13 = Postsecondary education (for example, technical

education or some college)

14 = College graduate or post-graduate degree

<u>VARIABLE</u>	ORIGIN	DESCRIPTION	Detailed Codebook
			Person-Level Countable Income

Person-level counta	Person-level countable income (monthly dollar amounts) ³⁷			
CONT1 to CONT29	R	COUNTABLE INCOME FROM CONTRIBUTIONS Range = (0, 2330) Person 1 through Person 29 Amount of contributions, charity, and in-kind income		
CSUPRT1 to CSUPRT29	R	COUNTABLE CHILD SUPPORT PAYMENT INCOME Range = (0, 2934) Person 1 through Person 29 Court-ordered child support payments received from absent parent or responsible person		
DEEM1 to DEEM29	R	COUNTABLE DEEMED INCOME Range = (0, 2306) Person 1 through Person 29 Income deemed from sponsor of noncitizen member of unit		
DIVER1 to DIVER29	R	COUNTABLE STATE DIVERSION PAYMENTS Range = (0, 0) Person 1 through Person 29		
EDLOAN1 to EDLOAN29	R	COUNTABLE INCOME FROM EDUCATIONAL GRANTS AND LOANS Range = (0, 458) Person 1 through Person 29 Educational grants, scholarships, and loans		
EITC1 to EITC29	R	COUNTABLE INCOME FROM EARNED INCOME TAX CREDIT Range = (0, 900) Person 1 through Person 29		
ENERGY1 to ENERGY29	R	COUNTABLE ENERGY ASSISTANCE INCOME Range = (0, 141) Person 1 through Person 29		
GA1 to GA29	R	COUNTABLE GENERAL ASSISTANCE BENEFITS Range = (0, 1406) Person 1 through Person 29		
OTHERN1 to OTHERN29	R	COUNTABLE OTHER EARNED INCOME Range = (0, 1811) Person 1 through Person 29		

³⁷ Some person-level income amounts have been edited to obtain consistency with final gross income (FSGRINC).

FINAL REPORT

<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION	Detailed Codebook Person-Level Countable Income
OTHGOV1 to OTHGOV29	R	BENEFITS Range = (0, 2034) Person 1 through Person 29 Includes but not limited to BI Retirement payments, and pa OTHGOVi amounts were rec	yments to farmers by USDA. coded as SSI benefits in units with for which OTHGOVi equaled an
OTHUN1 to OTHUN29	R	rental income, pensions, and were recoded as SSI benefits	payments, dividends and interest, union benefits. OTHUNi amounts in units with reported SSI income equaled an applicable State SSI
SLFEMP1 to SLFEMP29	R	COUNTABLE SELF-EMPL Range = (0, 4535) Person 1 through Person 29 Net income from any self-em	
SOCSEC1 to SOCSEC29	R	COUNTABLE SOCIAL SEC Range = (0, 2141) Person 1 through Person 29	CURITY INCOME
SSI1 to SSI29	R	COUNTABLE SSI BENEFIT Range = (0, 1575) Person 1 through Person 29 Includes recoded countable in OTHUNi in units with report OTHGOVi or OTHUNi equal supplement.	ncome reported as OTHGOVi or ted SSI income and where
TANF1 to TANF29) R	COUNTABLE TANF PAYM Range = (0, 1484) Person 1 through Person 29 Assigned to payee or principa	
UNEMP1 to UNEMP29	R	COUNTABLE UNEMPLOY BENEFITS Range = (0, 2408) Person 1 through Person 29	MENT COMPENSATION

VARIABLE	<u>ORIGIN</u>	DESCRIPTION Detailed Codebook Person-Level Countable Income
VET1 to VET29	R	COUNTABLE VETERANS' BENEFITS Range = (0, 3509) Person 1 through Person 29
WAGES1 to WAGES29	R	COUNTABLE WAGES AND SALARIES Range = (0, 6607) Person 1 through Person 29 Amount of wages, salaries, tips, and commission.
WCOMP1 to WCOMP29	R	COUNTABLE WORKERS' COMPENSATION BENEFITS Range = (0, 2361) Person 1 through Person 29
WGESUP1 to WGESUP29	R	COUNTABLE WAGE SUPPLEMENTATION INCOME Range = (0, 1469) Person 1 through Person 29 Earnings above cash assistance and/or SNAP benefit amount.

R

Detailed error findings

AGENCY1 to AGENCY9

AGENCY OR CLIENT RESPONSIBILITY

Range = (1, 99)

Variance 1 through Variance 9 Primary cause of variance

- 1 = Information not reported
- 2 = Incomplete or incorrect information provided; agency not required to verify
- 3 = Information withheld by client (case referred for Intentional Program Violation [IPV] investigation)
- 4 = Incorrect information provided by client (case referred for IPV investigation)
- 7 = Inaccurate information reported by collateral contact
- 8 = Acted on incorrect Federal computer match information not requiring verification (such variance is excluded from error determination but must be recorded)
- 10 = Policy incorrectly applied
- 12 = Reported information disregarded or not applied
- 14= Agency failed to follow up on inconsistent or incomplete information
- 15 = Agency failed to follow up on impending changes
- 16 = Agency failed to verify required information
- 17 = Computer programming error
- 18 = Data entry and/or coding error
- 19= Mass change (error due to problem with computergenerated mass change)
- 20 = Arithmetic computation error
- 21 = Computer user error
- 99 = Other

R

AMOUNT1 to AMOUNT9

VARIANCE DOLLAR AMOUNT

Range = (0, 777)

Variance 1 through Variance 9 Dollar amount of variance

<u>VARIABLE</u>	<u>ORIGIN</u>	DESCRIPTION	Detailed Codebook Detailed Error Findings
DISCOV1 to DISCOV9	R	VARIANCE DISCOVERY Range = (1, 9) Variance 1 through Variance 9 How variance was discovered 1 = Variance clearly identified fr (documentation not from an attention of the composition	automated match) rom case record omated match) cipient interview) ce company, or other business c records, not automated
E_FINDG1 to E_FINDG9	R	ERROR FINDING Range = (2, 4) Variance 1 through Variance 9 Impact of variance 2 = Overissuance 3 = Underissuance 4 = Ineligible	
ELEMENT1 to ELEMENT9	R	VARIANCE ELEMENT Range = (111, 820) Variance 1 through Variance 9 Element of variance 111 = Student status 130 = Citizenship and noncitizen 140 = Residency 150 = Unit composition 151 = Recipient disqualification 160 = Employment and training p 161 = Time-limited participation 162 = Work registration requirem 163 = Voluntary quit/reduced wor 164 = Workfare and comparable wor 165 = Employment status/job ava 166 = Acceptance of employment 170 = Social Security Number 211 = Bank accounts or cash on h 212 = Nonrecurring lump-sum pa 213 = Other liquid assets 221 = Real property 222 = Vehicles	orograms nents rk effort workfare uilability t

<u>VARIABLE</u> <u>ORIGIN</u> <u>DESCRIPTION</u>

Detailed Codebook Detailed Error Findings

		224 = Other nonliquid resources 225 = Combined resources 311 = Wages and salaries 312 = Self-employment 314 = Other earned income 321 = Earned income deductions 323 = Dependent care deduction 331 = RSDI benefits 332 = Veterans' benefits 333 = SSI and/or State SSI supplement 334 = Unemployment compensation 335 = Workers' compensation 336 = Other government benefits 342 = Contributions 343 = Deemed income 344 = TANF, PA, or GA 345 = Educational grants/scholarships/loans 346 = Other unearned income 350 = Child support payments received from absent parent 361 = Standard deduction 363 = Shelter deduction 364 = Standard utility allowance 365 = Medical deductions 366 = Child support payment deduction 371 = Combined gross income 372 = Combined net income 520 = Arithmetic computation 530 = Transitional benefits 560 = Reporting systems 810 = SNAP simplification project 820 = Demonstration projects
NATURE1 to NATURE9	R	NATURE OF VARIANCE Range = (6, 306) Variance 1 through Variance 9 Nature of each variance 6 = Eligible person(s) excluded 7 = Ineligible person(s) included 12 = Eligible person(s) with no income, resources, or deductible expenses excluded 13 = Eligible person(s) with income excluded 14 = Eligible person(s) with resources excluded 15 = Eligible person(s) with deductible expenses excluded 16 = Newborn improperly excluded 20 = Incorrect resource limit applied 24 = Resource should have been excluded 28 = Incorrect income limit applied

Detailed Codebook Detailed Error Findings

- 29 = Exceeds prescribed limit
- 30 = Resource should have been included
- 32 = Failed to consider or incorrectly considered income of ineligible member
- 35 = Unreported source of income (do not use for change in employment status)
- 36 = Rounding used/not used or incorrectly applied
- 37 = All income from source known but not included
- 38 = More income received from this source than budgeted
- 39 = Employment status changed from unemployed to employed
- 40 = Employment status changed from employed to unemployed
- 41 = Change only in amount of earnings
- 42 = Conversion to monthly amount not used or incorrectly applied
- 43 = Averaging not used or incorrectly applied
- 44 = Less income received from this source than budgeted
- 45 = Cost of doing business not used or incorrectly applied
- 46 = Failed to consider/anticipate month with extra pay date
- 52 = Deduction that should have been included was not
- 53 = Deduction included that should not have been
- 54 = Incorrect standard used (not as a result of change in unit size or move)
- 64 = Incorrect amount used resulting from change in residence
- 65 = Incorrect standard used resulting from change in unit
- 75 = Benefit/allotment/eligibility incorrectly computed
- 77 = Unit not entitled to transitional benefits
- 79 = Incorrect use of allotment tables
- 80 = Improper prorating of initial month's benefits
- 97 = Not required to be reported or acted upon based on time frames and reporting requirements for allotment differences below the \$50 threshold
- 98 = Transcription or computation errors
- 99 = Other
- 111 = Child support payment(s) not considered or incorrectly applied for initial month(s) of eligibility
- 112 = Retained child support payment(s) not considered or incorrectly applied
- 120 = Variance/errors resulting from noncompliance with this means-tested public assistance program
- 123 = Incorrectly prorated
- 124 = Variances resulting from use of automatic Federal information exchange system

VARIABLE	<u>ORIGIN</u>	<u>DESCRIPTION</u>	Detailed Codebook Detailed Error Findings
		 127 = Pass-through not considered 200 = Eligible noncitizen excluded 201 = Ineligible noncitizen included 301 = Unit improperly participating budgeting 302 = Unit improperly participating budgeting 303 = Unit improperly participating 304 = Unit improperly participating 305 = Unit improperly participating reporting 306 = Unit improperly participating 	d g under retrospective g under prospective g under monthly reporting g under quarterly reporting g under semiannual
OCCDATE1 to OCCDATE9	R	VARIANCE OCCURRENCE DATE Range = (200004, 999999) Variance 1 through Variance 9 Date each variance occurred (month 999999 = Unknown	
TIMEPER1 to TIMEPER9	R	VARIANCE TIME PERIOD Range = (1, 9) Variance 1 through Variance 9 Time period during which variance of 1 = Before most recent action 2 = At time of most recent action by 3 = After most recent action by agen 9 = Time of occurrence cannot be defended.	agency
VERIF1 to VERIF9	R	VARIANCE VERIFICATION Range = (1, 9) Variance 1 through Variance 9 Indicates how each variance was ver 1 = From case record (verification normatch) 2 = From case record (verification for 3 = From information provided by re 4 = Employer (present or former) 5 = Financial institution, insurance of 5 = Landlord 7 = Government agency or public rematch 8 = Government agency or public results of the second provided provi	ot from an automated rom an automated match) ecipient company, or other business cords, not automated



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APPENDIX A

ASSESSMENT OF THE QUALITY OF SELECTED VARIABLES IN THE FY 2015 SNAP QC DATABASE



We assessed the quality of the data for variables on the FY 2015 SNAP QC database that are new to the file, have changed in recent years, or have a history of coding inconsistencies. Based on our assessment, we recommend against using some variables and recommend caution when using other variables, as listed below and described in detail in the following sections. More information about our assessment and recommendations is available upon request.

A. Summary recommendations concerning use of certain variables

Based on our assessment, we recommend against using the following variables for all tabulations:

- RACETHi
- VEHICLEA and VEHICLEB
- YRSEDi

We recommend against using the following variables for specific tabulations:

- ABWDSTi for State-level tabulations in Maryland, Nevada, New Hampshire, New Jersey, North Dakota, Texas, West Virginia, and Wyoming
- DPCOSTi and FSDEPDED for State-level tabulations
- FSAFILi for State-level tabulations of nonparticipants in West Virginia
- URBRUR for State-level tabulations in Alabama, Nebraska, Nevada, Vermont, Utah, and Washington (not retained in public use file)

We recommend caution when using the following variables for tabulations:

- ABWDSTi (values ABWDSTi = 2 through 7 should be combined unless the specific State policies on ABAWDs are known)
- DISi, FSDIS, and FSNDIS (with the understanding that DISi likely undercounts the number of non-elderly individuals with disabilities)
- EMPRGi (with the understanding that this variable is best used along with other work-related variables)
- EMPSTAi and EMPSTBi (with the understanding that these variables are best used along with other work-related variables)
- FSAFILi for State-level tabulations of nonparticipants in Arkansas, Hawaii, Minnesota, Montana, Pennsylvania, South Dakota, West Virginia, and Wyoming.
- FSASSET and FSVEHAST (with the understanding that assets are not recorded for most households)
- FSTANF in Minnesota and California
- MN FIP (with the understanding that it may slightly undercount total MFIP units)

- NDISCAi and FSNDISCA (with the awareness that NDISCAi likely overcounts the number of non-elderly adults without disabilities)
- SSI_CAP (with the awareness that the SNAP QC database may underestimate the actual number of SSI-CAP units in some States)
- URBRUR for State-level tabulations (not retained in public use file)
- WRKREGi (with the understanding that this variable is best used along with other work-related variables)

We found the quality of other assessed variables to be suitable for all tabulations. Below, we discuss in detail our recommendations for specific variables in the SNAP QC database.

B. Variables not recommended for all tabulations

1. Race/Ethnicity (RACETHi)

Current values for RACETHi allow reporting of multiple races and ethnicities and also include values for race/ethnicity data not available or not recorded. About 15 percent of participants have unreported race/ethnicity data, though this percentage varies considerably by State. Given the large percentage of participants with unreported race/ethnicity information nationally, we recommend against the use of this variable.

2. Vehicles (VEHICLEA and VEHICLEB)

For over a decade, we have recommended against using the vehicle variables (VEHICLEA and VEHICLEB) because of coding inconsistencies. In addition, QC reviewers are instructed to record possession of vehicles only if the vehicle's value is counted toward a unit's resources. As a result, VEHICLEA and VEHICLEB are often missing, and FSVEHAST is almost always equal to \$0. Because VEHICLEA and VEHICLEB are not consistent with FSVEHAST, we recommend against the use of these variables.

3. Highest Educational Level Completed (YRSEDi)

We recommend against using YRSEDi because 9 percent of adult participants have a missing or unknown value for this variable.

C. Variables not recommended for specific tabulations

1. Non-Elderly Childless Adults without Disabilities Subject to Work Registration (ABWDSTi)

We recommend that care be taken to avoid State-level tabulations that result in small sample sizes, which could have misleading results. For this reason, we specifically recommend against using ABWDSTi for State-level tabulations in Maryland, Nevada, New Hampshire, New Jersey, North Dakota, Texas, West Virginia, and Wyoming.

2. Dependent Care Costs (DPCOSTi) and Deduction (FSDEPDED)

Nationally, inconsistencies between DPCOSTi and FSDEPDED affect only 1 percent of unweighted units that have a positive dependent care deduction, positive dependent care costs, or both. In a few States, however, the percentage of units with dependent care expenses or

deductions that have inconsistencies between the two variables is relatively high. Because of this as well as small sample sizes in some States, we recommend against using DPCOSTi and FSDEPDED for State-level tabulations

3. SNAP Case Affiliation (FSAFILi)

FSAFILi can be used for tabulations of participants. However, certain States have a high percentage of missing or unknown values for nonparticipants. In eight states, at least 5 percent of nonparticipants have unknown FSAFILi values; in one of those States, West Virginia, four-fifths of nonparticipants have unknown FSAFILi values. As a result, we recommend against the use of FSAFILi for State-level tabulations of nonparticipants in West Virginia and recommend caution when using FSAFILi for State-level tabulations of nonparticipants in Arkansas, Hawaii, Minnesota, Montana, Pennsylvania, South Dakota, and Wyoming.

4. Locality (URBRUR)

Several States use Local Agency Codes (LACs) that do not align to geographic areas and so cannot be used to classify units as being in a metropolitan, micropolitan, or rural area. In FY 2015, these States included Alabama, Nebraska, Nevada, Vermont, Utah, and Washington. As a result, we cannot identify metropolitan status for a large percentage of cases in these States, and thus we recommend against using URBRUR (metropolitan, micropolitan, or rural status) in those States. URBRUR is not retained in the public use file.

D. Variables we recommend using with caution

1. Non-Elderly Childless Adults without Disabilities Subject to Work Registration (ABWDSTi)

There are some inconsistencies between ABWDSTi and related variables (WRKREGi, EMPSTAi, and EMPSTBi). For example, of the 361,000 weighted participants with an ABWDSTi code indicating they are an ABAWD meeting work requirements, 67 percent have a WRKREGi code indicating they are exempt from work registration. Because of the inconsistencies between ABWDSTi and these employment variables, we recommend caution when using this variable, and further we recommend combining all values ABWDSTi = 2 through 7 unless the specific State policies on ABAWDs are known.

2. Person-Level and Unit Disability (DISi, FSDIS, and FSNDIS)

We use an algorithm to identify individuals with disabilities (DISi) based on SSI receipt, medical expenses, age, work registration status (WRKREGi), and other factors. We then use this variable to identify units containing individuals with disabilities (FSDIS) and count the number of individuals with disabilities in a unit (FSNDIS). We began using the algorithm for the FY 2012 SNAP QC file and made slight refinements to the algorithm for the FY 2014 and FY 2015

¹ Metropolitan Statistical Areas have at least one urbanized area of 50,000 or more people, plus adjacent territory that has a high degree of social and economic integration with the core, as measured by commuting ties. Micropolitan Statistical Areas have at least one urban cluster of at least 10,000 but less than 50,000 people, plus adjacent territory that has a high degree of social and economic integration with the core, as measured by commuting ties (OMB Bulletin No. 04-03).

files. We recommend using DISi, FSDIS, and FSNDIS with the awareness that they likely undercount the number of individuals with disabilities.

3. SNAP Employment and Training Program Status (EMPRGi) and Employment Status (EMPSTAi and EMPSTBi)

We are limited in our ability to assess EMPRGi, although we did find some inconsistencies between EMPRGi and YRSEDi (years of education) and between EMPRGi and WRKREGi (work registration status). Based on our limited assessment of EMPRGi and of the other work-related variables, we recommend caution when using EMPRGi.

As in previous years, we have found inconsistencies between the two employment status variables, EMPSTAi and EMPSTBi, and with other variables recording countable earned income. For example, 2 percent of participants with countable earned income (wages, self-employment earnings, or other earnings) have EMPSTAi codes indicating they were not in the labor force or were unemployed. Given these inconsistencies, we recommend caution when using EMPSTAi and EMPSTBi to determine participants' employment status.

4. SNAP Case Affiliation (FSAFILi)

As discussed previously, certain States have a high percentage of missing or unknown values for nonparticipants. In eight States (Arkansas, Hawaii, Minnesota, Montana, Pennsylvania, South Dakota, West Virginia, and Wyoming), individuals with FSAFILi values of 99 ("Unknown") make up 5 percent or more of nonparticipants. Therefore, we recommend caution when using FSAFILi for State-level tabulations of nonparticipants in these eight States.

5. Assets (FSASSET and FSVEHAST)

We edit positive values of FSVEHAST, LIQRESOR, OTHNLRES, and REALPROP to \$0 for units not subject to a SNAP asset test because of their State's BBCE policy. Due to this edit and the large number of States with BBCE policies, a large number of units have no recorded assets. Only 9 percent of all SNAP units have recorded assets (FSASSET > 0) in the FY 2015 file, and nearly all units have no vehicle assets (FSVEHAST = 0). We recommend using FSASSET and FSVEHAST for tabulations with the understanding that most units have no recorded countable assets.

6. TANF Recipients in the Minnesota Family Investment Program (MFIP) and in California (FSTANF)

In general, we code units in Minnesota with TANF income (FSTANF) as MFIP units. The reported TANF amounts for these units are typically very small, likely because of Federal QC System constraints. Specifically, when States transmit a quality control record, the national computer system checks that the unit's gross income is equal to the sum of all reported income types. Because TANF income is not used in the MFIP benefit calculation, it's not included in reported gross income, resulting in a fatal error in the data transmission.

Because TANF receipt may not be recorded for some units receiving an MFIP cash assistance benefit, we recommend using the MFIP variable (MN_FIP) with the understanding that it may slightly undercount the number of MFIP units. We caution against using MFIP units' TANF income.

Additionally, the percentage of weighted California SNAP units that are pure PA units appears to be too high compared with State administrative data. Therefore, we recommend using TANF receipt in California with the awareness that it may overestimate the number of pure PA units in California.

7. Adults Age 18 to 49 Without Disabilities in Childless Units (NDISCAi and FSNDISCA)

We recommend using the NDISCAi and FSNDISCA codes with the understanding that DISi likely undercounts the number of non-elderly individuals with disabilities and, therefore, NDISCAi likely overcounts the number of adults without disabilities.

8. SSI-CAP (SSI CAP)

Because the raw SNAP QC data does not identify units that enter SNAP through an SSI-CAP, we use an algorithm for identifying, recoding, and assigning benefits for SSI-CAP units in States with these projects. In FY 2015, these States included Arizona, Florida, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Mississippi, New Jersey, New Mexico, New York, North Carolina, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, and Washington.²

Because SSI-CAP units are not directly identified in the raw data but rather through an algorithm that relies on available data, the SNAP QC datafile may underestimate the actual number of SSI-CAP units in some States. Therefore, we recommend caution when using SSI CAP.

9. Locality (URBRUR)

Because the SNAP QC sample is not designed to be representative at the sub-State level, we recommend caution when using URBRUR for State-level tabulations. URBRUR is not retained in the public use file.

10. Work Registration Status (WRKREGi)

WRKREGi includes values that distinguish between individuals with a Federal exemption because of a disability (WRKREGi = 1) and individuals with a Federal exemption for a reason other than a disability (WRKREGi = 2). We found continued evidence in the FY 2015 file of likely miscoding of this variable. For example, we found some inconsistencies between WRKREGi and ABWDSTi. Of the 361,000 weighted participants coded as ABAWDs who were meeting work requirements, 67 percent are coded as being exempt from work registration (WRKREGi = 1 or 2). Because of inconsistencies, likely miscoding, and our limited ability to assess WRKREGi, we recommend caution when using the variable, and we also recommend combining values for WRKREGi = 1 and WRKREGi = 2. If attempting to identify individuals with disabilities, we recommend using the person-level disability indicator, DISi, described above.

² New Mexico ended its SSI-CAP demonstration in March 2014. However, SSI-CAP households may remain on the program through their certification period. The last SSI-CAP benefits will be issued in February 2017.



APPENDIX B AUTOMATED EDITS TO SNAP UNITS



In any raw datafile, inconsistencies in the way data are entered can often be resolved by simple algorithms. In the FY 2015 SNAP QC raw datafile, we performed the automated edits described below

1. Missing and miscoded SNAP affiliation (FSAFILi) codes

We checked for instances where the SNAP case affiliation codes in the raw datafile were missing. If the individual had nonmissing age and gender, we recoded them as potential SNAP participants. That is, we first recoded FSAFILi as "unknown" (99) and then set it to 1 if certain other conditions, described below, were met.

We also checked for instances where the SNAP case affiliation codes in the raw datafile were inconsistent with other coded variables on the file such as citizenship, ABAWD status, and receipt of SSI and TANF. We were able to recode many of the inconsistencies:

- If there were differences between the unit size (count of those with affiliation code of 1) and the certified household size, we checked to see which size matched the reported benefit and edited the affiliation codes accordingly. We also resolved differences by recoding any affiliation codes that were inconsistent with citizenship or ABAWD status.
- Beginning in FY 2015, if a participating minor child of the household head (FSAFILi = 1, AGEi<18, and RELi=4) has an inconsistent citizenship status (CTZNi >=7) and there is no one outside the unit (FSAFILi>1), then we changed the child's citizenship status to the value for the household head.
- We set the affiliation codes of California SSI recipients to 15.
- MFIP uses unit composition rules that differ from those in regular SNAP. Specifically, SSI and TANF recipients living in the same household are treated as separate SNAP units. Consequently, if a Minnesota unit of more than one person had both SSI and TANF income, we set the affiliation code of the SSI recipient to unknown (99).

2. Vehicle assets

The following States consider the value of some vehicles when determining asset eligibility for households that are not categorically eligible: Alaska, Arkansas, Delaware, Guam, Idaho, Illinois, Iowa, Maine, Michigan, Minnesota, Nebraska, Nevada, New Hampshire, New York, North Dakota, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Vermont, the Virgin Islands, and Washington. For all other States, we reset any reported vehicle assets to \$0 because the States exclude the value of all vehicles when determining asset eligibility.

3. Child support deduction and child support income

We checked for instances where the reported child support expense deduction is exactly equal to the reported countable unit child support payment income. Although it is possible for a unit to have both child support expenses and child support income, it is highly unlikely that the two would be exactly equal in value. In these units, we checked to see if either of the amounts should be excluded by using the following procedure:

- If unit income less child support income was within \$5 of reported gross income, we set child support income to \$0.
- If calculated net income for the unit was within \$5 of reported net income, we retained both child support income and the child support deduction.
- If calculated net income was greater than reported net income and the difference between the two was greater than or equal to child support income, we set child support income to \$0.
- If calculated net income was less than reported net income and the difference between the two was less than child support income, we set the child support expense deduction to \$0.

In addition, if a unit was not categorically eligible, included no elderly individuals or individuals with disabilities, and would have passed the gross income test if child support expenses were excluded from gross income but would not if they were included, we excluded child support expenses from unit gross income and set the child support expense deduction to \$0.

4. Dependent care costs

The QC datafile includes units for which the QC reviewers recorded dependent care expenses for the parent rather than for the dependent. We corrected for this error, as follows:

- If dependent care expenses were assigned to adults between age 18 and 59 without SSI and there were children in the unit without dependent care expenses, we set the expenses to \$0 for the adults and distributed them among the children in the following order:
 - 1. If the unit contained at least one member age 0 to 4, we distributed the costs evenly to unit members from age 0 to 8.
 - 2. If the unit did not contain a member age 0 to 4, we distributed the costs evenly to any unit members from age 5 to 13.
 - 3. If the unit did not contain a member age 0 to 13, we distributed the costs evenly to any unit members from age 14 to 17.

In units where the calculated benefit matched the raw benefit, we assumed the recorded dependent care deduction was correct and, if necessary, recoded the costs to make them consistent with the deduction. We followed these guidelines to reconcile differences between the dependent care deduction and expenses:

- If the dependent care deduction was greater than the total value of dependent care costs, we set the costs equal to the deduction by assigning additional dependent care costs to unit members who originally had positive dependent care expenses.
- If no unit members originally had recorded dependent care expenses, we assigned costs to unit members in the following order:
 - 1. If the unit contained at least one member age 0 to 4, we distributed costs evenly to unit members from age 0 to 8.

- 2. If the unit did not contain a member age 0 to 4, we distributed costs evenly to any unit members from age 5 to 13.
- 3. If the unit did not contain a member age 0 to 13, we distributed costs evenly to any unit members from age 14 to 17.
- 4. If the unit did not contain a member age 0 to 17, we distributed costs evenly to any unit members of age 18 or older with SSI.
- 5. If the unit did not contain a member age 0 to 17 or an adult with SSI, we distributed costs to elderly unit members without SSI.
- 6. If the unit did not contain a member age 0 to 17 or an adult with SSI or an elderly unit member without SSI, we distributed costs evenly to any unit members age 18 or older.
- If a unit had positive dependent care costs but no dependent care deduction, we set the dependent care deduction equal to the total unit dependent care costs.

These edits excluded households identified as MFIP or SSI CAP.

5. SUA usage and prorating³

The SNAP QC datafile includes two variables that describe the use of standard utility allowances (SUAs). One variable records the usage of and entitlement to SUAs (SUA1); the other records prorating utility allowances in shared housing situations (SUA2). In units where the calculated benefit matched the raw benefit, we assumed the recorded utility amount to be correct. For these units, we recoded the SUA1 and SUA2 variables to make them consistent with the utility amount. For units coded as receiving a type of SUA not used in the State, we recoded SUA1 regardless of the result of the benefit calculation.

In most States, we checked for full SUA values as well as for half SUA values (see Table F.7). If the utility amount equaled a full SUA value, we confirmed that SUA1 indicated the correct SUA type and that SUA2 was coded as "not prorated." If the utility amount equaled half of an SUA value, we confirmed that SUA1 indicated the correct SUA type and that SUA2 was coded as "prorated." However, in States that use individual standards, we checked half SUA values for the HCSUA and LUA, but only full SUA values for the telephone SUA, electricity SUA, or both (telephone plus electricity). If the utility amount did not equal a full or half SUA value and was not coded as prorated, we coded the unit as using individual standards in States with individual standards and as using actual expenses in other States. However, in States where

³ These edits exclude units identified as MFIP or SSI-CAP participants. SSI-CAP participants in States with a standard benefit had SUA1 and SUA2 set to missing. SSI-CAP participants in States with a standardized shelter expense had SUA1 set to 9 ("Other") and SUA2 set to 1 (not prorated).

⁴ Prorated values are not always equal to half of the full SUA value. However, because of the multitude of possible values, we checked only for values that were half of the full amount.

SUA use was mandatory and the State did not use individual standards, we did not change the values from the raw datafile and were unable to reconcile the value of SUA1 and SUA2.⁵

6. Pure Public Assistance (PA) units

We flagged the following types of units as pure PA units:

- Units containing only children where at least one member received TANF income
- Units where at least one member received TANF income and where every adult member of the unit received TANF, SSI, or GA income
- Units where every adult and every child received SSI or GA income
- All MFIP units

7. Categorical eligibility

Most States have adopted BBCE policies that confer categorical SNAP eligibility on all units authorized to receive a TANF or Maintenance of Effort funded noncash benefit. In such States, units meeting State-determined eligibility criteria are exempt from the Federal SNAP income and asset tests. In States with BBCE policies, most units were already identified as categorically eligible through the CAT_ELIG variable, which is set to 0 for units that are not categorically eligible and to 1 for units reported as categorically eligible in the raw file. We set the CAT_ELIG flag to 2 for units that were not reported to be categorically eligible but that we identified as pure PA or met the following State-specific criteria:

- Alabama. All units with (1) gross income at or below 130 percent of poverty or (2) only elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty and net income at or below 100 percent of poverty
- Arizona, Connecticut, Maine, New Jersey, Oregon, and Vermont. All units with gross income at or below 185 percent of poverty
- California, Delaware, District of Columbia, Florida, Hawaii, Maryland, Nevada, North Carolina, Washington, and Wisconsin. All units with gross income at or below 200 percent of poverty
- **Colorado.** All units with net income at or below 100 percent of poverty and either (1) gross income at or below 130 percent of poverty or (2) any elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty
- **Georgia.** All units with (1) gross income at or below 130 percent of poverty or (2) only elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty
- Guam, Minnesota, and New Mexico. All units with gross income at or below 165 percent of poverty

⁵ Throughout FY 2015, 47 States mandated the use of an SUA rather than actual utility costs.

- **Idaho.** All units with countable assets at or below \$5,000, net income at or below 100 percent of poverty, and either (1) gross income at or below 130 percent of poverty or (2) any elderly individuals or individuals with disabilities
- Illinois, Kentucky, Ohio, and South Carolina. All units with (1) gross income at or below 130 percent of poverty or (2) any elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty
- **Iowa.** All units with gross income at or below 160 percent of poverty
- Massachusetts. All units (1) with gross income at or below 200 percent of poverty with either children age 18 or younger present living with a parent or caretaker, or any elderly individuals or individuals with disabilities or (2) with net income at or below 100 percent of poverty and gross income at or below 130 percent of poverty
- **Michigan.** All units with gross income at or below 200 percent of poverty and countable assets at or below \$5,000
- **Mississippi and Oklahoma.** All units with net income at or below 100 percent of poverty and either (1) gross income at or below 130 percent of poverty or (2) any elderly individuals or individuals with disabilities
- **Montana and North Dakota.** All units with net income at or below 100 percent of poverty and gross income at or below 200 percent of poverty
- **Nebraska.** All units with net income at or below 100 percent of poverty, countable financial assets at or below \$25,000, and either (1) gross income at or below 130 percent of poverty or (2) any elderly individuals or individuals with disabilities
- New Hampshire. All units with children under the age of 22 and a relative of the child present and gross income at or below 185 percent of poverty
- New York. All units with (1) gross income at or below 130 percent of poverty, (2) any elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty, or (3) dependent care expenses and gross income at or below 200 percent of poverty
- Pennsylvania. Through April 2015, all units with (1) gross income at or below 160 percent of poverty and countable assets at or below \$5,500 or (2) any elderly individuals or individuals with disabilities, gross income at or below 200 percent of poverty, and countable assets at or below \$9,000. As of May 2015, all units with (1) gross income at or below 160 percent of poverty or (2) any elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty
- **Rhode Island.** All units with (1) gross income at or below 185 percent of poverty or (2) any elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty
- **Texas.** All units with gross income at or below 165 percent of poverty and countable assets at or below \$5,000

- **Virgin Islands.** All units with (1) gross income at or below 175 percent of poverty or (2) any elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty
- **West Virginia.** All units with (1) gross income at or below 130 percent of poverty or (2) only elderly individuals or individuals with disabilities and gross income at or below 200 percent of poverty and no earned income

8. State SSI supplements

Some States appear to have coded State SSI supplements as other government benefits (FSOTHGOV) or other unearned income (FSOTHUN), rather than SSI. We add these types of income to SSI (and set FSOTHGOV or FSOTHUN to 0) if the total amount of one of those income types was equal to the State's SSI supplement for individuals or couples.

9. Person-level disability

The QC datafile does not directly identify individuals with disabilities. However, we can use information in the QC datafile—such as SSI receipt, or work registration status—to identify those likely to have a disability. Starting in FY 2012, we used the following procedure to flag individuals with disabilities:

- We identify as disabled most individuals under the age of 60 with SSI. Exceptions are made if they are the only individual in the unit to have SSI, have a work registration status indicating a Federal exemption for a reason other than a disability (WRKREGi = 2), and meet any of the following conditions:
 - 1. Individual is an adult (age 18 to 59) living with at least one individual who does not have SSI, does not have earned income, and has a work registration status indicating disability (WRKREGi = 1). In these cases, we code the first child in the unit with WRKREGi = 1 as disabled; or, if there are no children in the unit, we code the first adult in the unit with WRKREGi = 1 as disabled. We do not code the adult with SSI and WRKREGi = 2 as disabled.
 - 2. Individual is a child (age 0 to 17) living with at least one other child who does not have SSI, does not have earned income, and has a work registration status indicating disability. In these cases, we code the first child in the unit with WRKREGi = 1 as disabled. We do not code the child with SSI and WRKREGi = 2 as disabled.
 - 3. Individual does not meet conditions (1) or (2) but is in the labor force (EMPSTAi greater than 1), has earned income, has no Social Security, veterans' benefits, or workers' compensation, and is living with at least one child who does not have SSI. In these cases, we code the first child in the unit as disabled. We do not code the individual described above with SSI as disabled.
- We identify as disabled all non-elderly adults who satisfy all three of the following conditions:

- 1. Coded as working fewer than 30 hours per week (EMPSTBi = 1, 2, or 3) and have monthly earnings equal to less than the equivalent of the monthly Federal minimum wage for someone working 30 hours a week
- 2. Coded as being exempt from work registration due to disability (WRKREGi = 1)
- 3. Has Social Security, veterans' benefits, or workers' compensation
- Beginning with the FY 2014 QC database, we also identify as disabled all non-elderly adults who satisfy all three of the following conditions:
 - 1. Coded as being exempt from work registration due to a disability (WRKREGi = 1)
 - 2. Has Social Security
 - 3. Has no related dependent in the unit.
- Beginning in FY 2015, we also identify as disabled non-elderly adults in single-person SNAP households who receive Social Security.
- In units where no individual is identified as disabled based on the above criteria, but where the unit receives a medical deduction and has no elderly individuals, we code at least one individual as disabled. We do so by looking for the following types of individuals, stopping when a step codes one or more individuals as disabled.
 - 1. Individuals with a work registration status indicating disability. (Code all such individuals as disabled.)
 - 2. Individuals with Social Security, veterans' benefits, or workers' compensation and coded as working fewer than 30 hours per week. (Code all such individuals as disabled.)
 - 3. Individuals with Social Security, veterans' benefits, or workers' compensation. (Code all such individuals as disabled.)
 - 4. Child coded as working fewer than 30 hours per week. (Code first as disabled.)
 - 5. Adult coded as working fewer than 30 hours per week. (Code first as disabled.)

If the unit did not contain any of the types of individuals listed above, we code all individuals in the unit as disabled.



APPENDIX C

NEW VARIABLES AND VARIABLES THAT CHANGED IN THE FY 2015 SNAP QC DATABASE



Variables changed on the FY 2015 SNAP QC database

DISi The DISi algorithm was slightly adjusted to newly identify as disabled

non-elderly adults in single-person SNAP households who receive Social Security. See pages B.8–B.9 of this documentation for further information.

New variables on the FY 2015 SNAP QC database

All person- Person-level variables (previously only reported for positions 1–16 in the

level variables unit) were added to report data for persons in positions 17–29.

FSDIS Person-level indicator of non-elderly individuals with disabilities in unit

FSELDER Indictor of elderly individuals in unit

FSKID Indicator of children in unit

STATENAME State or territory

WORKi Person-level working indicator

Note: Information regarding variables on the FY 2014 SNAP QC database may be found in *Technical Documentation for the Fiscal Year 2014 SNAP QC Database and QC Minimodel* (Vigil et al. 2015).



APPENDIX D DERIVATION OF WEIGHTS BY STATE AND MONTH



Tables D.1a through D.3b present the final calculated weighted counts of SNAP units, individuals, and benefit amounts in the FY 2015 SNAP QC file. Tables D.4 through D.15 show the preliminary monthly weights (HWGT) and their derivation for each State and stratum. The preliminary weights (Stratum-Specific Weights) are derived as follows:

Data	Table D.4 – D.15 Columns	Derivation
Sampling interval	а	Raw data
Stratum sampling size	b	Raw data
SNAP units in stratum (unedited)	C*	a*b
Stratum share of State sample	d*	c/(sum c over State)
SNAP units in State	е	Raw data
SNAP units in stratum (edited)	f*	d*e
Units with complete reviews	g	Raw data
Ineligible units	h	Raw data
Disqualification rate	i	h/g
Adjusted SNAP units in State	j	(1-i)*f
Failing units	k	Raw data
Stratum sampling size	1	g-h-k
Stratum-specific weight	m	j/l

^{*} Column omitted from published tables due to space limitations; available on request.

As described in Chapter III, Section C, the preliminary monthly stratum-specific unit weights are the starting point for creating the final weights. After deriving the preliminary weights, we use a nonlinear programming technique to create final weights that match the adjusted monthly Program Operations number of units, participants, and benefits. In Chapter III, Section C, we provide a description of the derivation of sampling weights.

Table D.1a. Calculated weighted unit counts by State (October 2014 to April 2015)

State December January February March April 2015								
Alabama 417,767 418,026 423,364 420,116 417,564 416,232 410,077 Alaska 29,186 33,396 33,109 33,649 33,147 34,132 35,030 Arkanasa 216,101 219,111 216,630 208,712 204,774 211,255 207,143 California 1,972,979 2,056,792 2,025,794 2,023,244 2,048,434 2,058,801 2,098,566 Colorado 231,694 230,104 235,978 235,112 223,293 223,395 233,027 Colorado 231,694 230,104 235,978 235,112 223,293 223,395 233,027 Delaware 70,210 70,838 73,178 72,399 69,190 71,839 69,966 Delaware 70,210 70,838 73,178 72,399 69,190 71,839 69,966 Colorado 2,018,928 2,014,801 2,020,053 2,013,299 1,999,238 1,993,985 1,966,059 1,966,079 1,839 69,970 1,961,970 1,981,999,238 1,993,985 1,966,059 1,960,190 1,970,190 1,970,190 1,981,99 1,999,238 1,993,985 1,966,059 1,960,190 1,970,190 1,970,190 1,981,99 7,055 96,566 93,813 89,989 1,980 1,990,700 1,970,71 98,159 97,055 96,566 93,813 89,989 1,980 1,990,700 1,970,71 98,159 97,055 96,566 93,813 89,989 1,990 1,990,700 1,970,71 98,159 97,055 96,566 93,813 89,989 1,990 1,990,700 1,970,71 98,159 97,055 96,566 93,813 89,989 1,990 1,990,970 1,970,71 98,159 1,990,238 1,983,985 1,986,052 1,980 1,9		October	November	December	January	February	March	April
Alaska 29,186 33,396 33,109 33,649 33,147 34,132 35,309 Arizona 454,266 445,703 442,851 441,771 430,355 427,971 424,015 Arkansas 216,101 219,111 216,830 209,712 204,774 211,255 207,143 California 1,972,979 2,056,792 2,025,794 2,023,244 2,048,434 2,095,801 2,098,806 Colorado 231,694 230,104 235,978 255,112 223,293 232,355 233,027 Connectcut 245,527 249,097 243,427 248,388 243,886 245,723 245,680 District of Columbia 81,636 80,572 80,340 80,423 76,806 79,617 78,168 Florida 2,018,928 2,014,801 2,000,53 2,013,299 1,999,283 1,993,995 1,996,052 Georgia 858,357 848,269 842,219 829,194 832,672 832,202 818,669 Hawali 96,970 97,071 99,159 97,055 96,66 93,813 89,899 Idaho 84,471 84,269 84,389 85,070 84,930 83,758 84,010 Illinois 994,716 1,044,22 1,048,606 1,055,990 1,046,507 1,057,161 1,065,865 Indiana 388,061 385,196 371,210 374,460 384,064 374,310 377,195 Kansas 125,424 123,307 123,737 122,006 122,854 120,996 121,699 Kentucky 377,114 381,804 37,086 376,382 364,135 388,173 361,866 Louisiana 395,096 381,799 385,201 337,884 338,111 332,789 378,860 Maine 113,489 110,247 109,843 102,320 101,880 101,623 101,288 Massachusetts 464,798 450,427 445,094 443,137 439,985 428,783 433,362 Miniseota 234,463 229,329 239,232 237,157 758,817 77,786 76,538 Malwalian 164,469 440,477 445,194 443,137 439,985 428,783 433,362 Miniseota 24,463 229,299 239,232 237,157 722,066 197,384 202,244 Missouri 392,593 391,743 400,327 390,292 397,836 395,037 399,881 Monthaia 56,49 50,777 56,89 76,89 77,868 76,80 77,868 76,80 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868	State	2014	2014	2014	2015	2015	2015	2015
Alaska 29,186 33,396 33,109 33,649 33,147 34,132 35,309 Arizona 454,266 445,703 442,851 441,771 430,355 427,971 424,015 Arkansas 216,101 219,111 216,830 209,712 204,774 211,255 207,143 California 1,972,979 2,056,792 2,025,794 2,023,244 2,048,434 2,095,801 2,098,806 Colorado 231,694 230,104 235,978 255,112 223,293 232,355 233,027 Connectcut 245,527 249,097 243,427 248,388 243,886 245,723 245,680 District of Columbia 81,636 80,572 80,340 80,423 76,806 79,617 78,168 Florida 2,018,928 2,014,801 2,000,53 2,013,299 1,999,283 1,993,995 1,996,052 Georgia 858,357 848,269 842,219 829,194 832,672 832,202 818,669 Hawali 96,970 97,071 99,159 97,055 96,66 93,813 89,899 Idaho 84,471 84,269 84,389 85,070 84,930 83,758 84,010 Illinois 994,716 1,044,22 1,048,606 1,055,990 1,046,507 1,057,161 1,065,865 Indiana 388,061 385,196 371,210 374,460 384,064 374,310 377,195 Kansas 125,424 123,307 123,737 122,006 122,854 120,996 121,699 Kentucky 377,114 381,804 37,086 376,382 364,135 388,173 361,866 Louisiana 395,096 381,799 385,201 337,884 338,111 332,789 378,860 Maine 113,489 110,247 109,843 102,320 101,880 101,623 101,288 Massachusetts 464,798 450,427 445,094 443,137 439,985 428,783 433,362 Miniseota 234,463 229,329 239,232 237,157 758,817 77,786 76,538 Malwalian 164,469 440,477 445,194 443,137 439,985 428,783 433,362 Miniseota 24,463 229,299 239,232 237,157 722,066 197,384 202,244 Missouri 392,593 391,743 400,327 390,292 397,836 395,037 399,881 Monthaia 56,49 50,777 56,89 76,89 77,868 76,80 77,868 76,80 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868 77,868	Alahama	117 767	/18 D26	123 361	420 116	417 564	A16 232	410.077
Arkansas 216 101 219111 216830 208712 204774 21125 207.1431 California 1,972,979 2,056,792 2,025,794 2,023,244 2,048,434 2,095,801 2,098,966 Colorado 231,994 230,104 235,578 255,112 223,293 232,355 230,027 Connecticut 245,527 249,097 243,427 248,368 243,866 245,723 245,080 Delaware 70,210 70,838 73,178 72,359 69,190 71,839 69,996 District of Columbia 81,636 80,672 80,340 80,423 78,806 79,617 78,168 Florida 2,018,928 2,014,801 2,020,053 2,013,299 1,999,238 1,993,965 1,966,052 Georgia 88,367 848,269 842,219 829,194 832,672 832,022 818,889 Hawaii 96,970 97,071 98,159 97,055 96,566 93,813 89,989 Hawaii 96,970 97,071 98,159 97,055 96,566 93,813 89,989 Hawaii 96,870 97,071 98,159 97,055 96,566 93,813 89,989 Hawaii 96,870 97,071 98,159 97,055 96,566 93,813 89,989 Hawaii 96,870 104,1442 1,048,606 1,055,990 1,064,507 1,057,161 1,055,865 Indiana 388,061 385,195 371,210 374,460 384,064 374,310 377,195 lowa 186,272 187,882 186,225 188,407 188,281 133,746 184,519 lowa 186,272 187,882 186,225 188,407 188,281 133,746 184,519 lowa 181,344 134,349 110,247 109,843 102,320 112,884 120,996 121,699 Kentucky 377,114 381,004 377,066 378,382 384,180 383,191 382,789 378,550 Maine 113,489 110,247 109,843 102,320 11,880 110,53 102,188 Maryland 406,148 404,626 405,712 403,788 403,097 397,898 402,834 Massachusetts 464,798 460,427 446,094 443,137 439,995 428,783 433,252 Michigian 845,599 383,467 834,614 820,859 831,767 817,168 823,256 Michigian 845,599 383,467 834,617 75,817 77,888 77,853 Morthana 56,419 52,077 56,288 56,302 55,275 56,146 50,676 New Jersey 459,200 466,977 457,776 439,770 439,770 439,770 439,770 47,770 47,700 47,		•	·					
Arkanesa 216,101 219,111 216,630 208,712 204,774 211,255 207,143 California 1,972,979 2,056,792 2,025,794 2,023,244 2,048,434 2,095,801 2,038,076 Connecticut 245,527 249,097 243,427 248,368 243,886 245,723 245,080 District of Columbia 81,636 80,572 80,340 80,423 78,806 79,617 78,168 Florida 2,018,928 2,014,801 2,020,605 2,013,299 1,999,238 1,993,995 1,996,052 Georgia 858,357 848,269 842,219 829,194 832,672 832,202 818,869 Idaho 84,471 84,269 84,389 85,070 84,930 83,788 84,010 Illinois 994,716 1,041,442 1,048,606 1,055,990 1,067,161 1,055,865 Illindian 388,061 385,195 371,210 374,460 384,064 374,310 377,195 Iowa 16,6272 </td <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· ·</td>		•						· ·
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Colorado 231 694 230 104 235 978 235 112 223 293 232 355 233 027 Connecticut 245,527 249,097 243,427 248,368 243,886 245,723 245,080 Delaware 70,210 70,838 73,178 72,359 69,190 77,1839 69,996 District of Columbia 81,636 80,572 80,340 80,423 78,806 79,617 78,168 Florida 20,18,928 2,014,801 2,020,053 2,013,299 1,999,338 1,996,052 Georgia 858,357 848,269 842,219 829,194 832,672 832,202 818,869 Idaho 84,471 84,269 843,89 85,070 84,930 83,758 84,010 Illiniois 94,716 1,041,442 1,048,606 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507 1,064,507		•						
Connecticut 245,527 249,097 243,427 248,368 243,886 245,723 245,080 Delaware 70,210 70,838 73,178 72,359 69,190 71,839 69,996 Florida 2,018,928 2,014,801 2,020,053 2,013,299 1,999,238 1,993,985 1,986,052 Georgia 858,357 848,269 842,219 829,194 832,672 832,202 818,669 Hawaii 96,970 97,071 91,569 97,055 96,666 93,813 89,989 Hawaii 96,9716 1,041,442 1,048,606 1,055,990 1,064,507 1,057,161 1,065,869 Ilmiolan 388,061 385,195 371,210 374,460 384,064 374,317 188,410 Kansas 125,424 123,307 122,737 122,006 122,854 120,996 188,415 Kanusas 195,996 381,799 385,201 387,688 430,381 381,196 377,086 378,382 364,136 358,17								
Delaware 70,210 70,838 73,178 72,259 69,196 71,839 69,996 District of Columbia 41,636 80,572 80,340 80,423 78,806 79,617 78,666 Florida 2,018,928 2,014,801 2,020,053 2,013,299 1,999,238 1,993,985 1,986,052 Georgia 858,357 848,269 842,219 829,194 832,672 832,202 18,868 Idaho 84,471 84,269 84,388 85,070 8,930 83,758 84,010 Illinois 994,716 1,041,442 1,046,606 1,055,990 1,064,507 1,065,866 Indiana 388,061 385,195 371,210 374,460 384,064 374,316 184,519 Kansas 125,424 123,307 123,737 122,006 122,554 120,996 121,699 Kentucky 377,114 381,604 377,086 378,382 364,136 358,173 361,866 Kontucky 377,144 381,694		•	,					
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lowa 186,272 187,882 186,266 188,407 186,281 183,746 184,519 Kansas 125,424 123,307 123,737 122,006 122,854 120,996 121,699 Kentucky 377,114 381,604 377,086 378,382 364,136 358,173 361,866 Louisiana 395,096 381,799 385,201 387,684 383,191 382,789 378,650 Maine 113,489 110,247 109,843 102,320 101,880 101,623 102,188 Maryland 406,148 404,626 405,712 403,788 403,097 397,898 402,834 Massachusetts 464,798 450,227 445,094 443,137 439,995 428,783 433,252 Michigan 845,599 834,467 834,614 820,898 331,767 817,168 823,255 Minnesota 223,493 293,292 238,232 2237,167 232,469 233,203 237,204 Missouri 392,593		•						
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Kentucky 37,114 381,604 377,086 378,382 364,136 358,173 361,866 Louisiana 395,096 381,799 385,201 387,684 383,191 382,789 378,650 Maryland 406,148 404,626 405,712 403,788 403,097 397,898 402,834 Massachusetts 464,798 450,427 445,094 443,137 439,985 428,783 433,252 Michigan 845,599 834,467 834,614 820,859 831,767 817,168 823,255 Minnesota 234,463 229,329 238,232 237,157 232,469 233,203 237,204 Mississippi 302,294 298,874 301,115 298,998 296,687 293,714 292,244 Mississippi 302,293 391,743 400,327 390,292 397,836 395,037 398,881 Morthana 56,419 52,077 56,288 56,302 56,275 56,146 50,675 Nebraska 76,111		•						
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Maine 113,489 110,247 109,843 102,320 101,880 101,623 102,188 Maryland 406,148 404,626 405,712 403,788 403,097 397,898 420,834 Massachusetts 464,798 450,427 445,094 443,137 439,985 428,783 433,255 Michigan 845,599 834,467 834,614 820,859 831,767 817,168 823,255 Minnesota 234,463 229,329 238,232 237,157 232,469 233,203 237,204 Mississippi 302,294 298,874 301,115 298,998 296,687 293,714 292,244 Missouri 392,593 391,743 400,327 390,292 397,836 395,037 398,881 Montana 56,419 52,077 56,288 56,302 56,275 56,146 50,675 Nevada 199,971 202,470 195,295 203,043 206,354 201,947 208,142 New Jersey 459,299	•							
Maryland 406,148 404,626 405,712 403,788 400,097 397,898 402,834 Massachusetts 464,798 450,427 445,094 443,137 439,995 428,783 433,252 Michigan 845,599 834,467 834,614 820,859 831,767 817,168 823,255 Minnesota 234,463 229,329 238,232 237,157 232,469 233,203 237,204 Missiouri 392,593 391,743 400,327 390,292 397,836 395,037 398,881 Montana 56,419 52,077 56,288 56,302 56,275 56,146 50,676 Nebraska 76,111 75,889 77,151 75,877 75,817 77,808 76,538 New Hampshire 50,714 49,518 48,234 47,465 50,327 52,115 52,037 New Mexico 191,531 196,603 198,008 198,725 20,055 197,384 205,413 New York 1,678,096 <th< td=""><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td>-</td></th<>		•						-
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Minnesota 234,463 229,329 238,232 237,157 232,469 233,203 237,204 Mississippi 302,294 298,874 301,115 298,998 296,687 293,714 292,244 Missouri 392,593 391,743 400,327 390,292 56,275 56,146 50,676 Nebraska 76,111 75,889 77,151 75,877 75,817 77,808 76,538 Nevada 199,971 202,470 195,295 203,043 206,354 201,947 208,142 New Hampshire 50,714 49,518 48,234 47,465 50,327 52,115 52,037 New Jersey 456,290 456,977 457,776 449,970 452,574 452,882 452,465 New Mexico 191,531 196,603 198,008 198,725 202,065 197,384 205,413 New York 1,678,996 1,585,940 1,658,407 1,673,567 1,688,394 1,672,183 1,623,849 North Dakota 24,66		•						•
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Missouri 392,593 391,743 400,327 390,292 397,836 395,037 398,881 Montana 56,419 52,077 56,288 56,302 56,275 56,146 50,676 Nebraska 76,111 75,889 77,151 75,877 75,817 77,808 76,538 Nevada 199,971 202,470 195,295 203,043 206,354 201,947 208,142 New Hampshire 50,714 49,518 48,234 47,465 50,327 52,115 52,037 New Jersey 459,290 456,977 457,776 449,970 452,574 452,882 452,465 New Mexico 191,531 196,603 198,008 198,725 202,065 197,384 205,413 New York 1,678,096 1,585,940 1,658,407 1,673,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 </td <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		•						
Montana 56,419 52,077 56,288 56,302 56,275 56,146 50,676 Nebraska 76,111 75,889 77,151 75,877 75,817 77,808 76,538 Nevada 199,971 202,470 195,295 203,043 206,354 201,947 208,142 New Hampshire 50,714 49,518 48,234 47,465 50,327 52,115 52,037 New Jersey 459,290 456,977 457,776 449,970 452,574 452,882 452,465 New York 1,678,096 1,585,940 1,658,407 1,678,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oklahoma 266,982	• •	•			•	•	-	•
Nebraska 76,111 75,889 77,151 75,877 75,817 77,808 76,538 Nevada 199,971 202,470 195,295 203,043 206,354 201,947 208,142 New Hampshire 50,714 49,518 48,234 47,465 50,327 52,115 52,037 New Jersey 459,290 456,977 457,776 449,970 452,574 452,882 452,465 New Mexico 191,531 196,603 198,008 198,725 202,065 197,384 205,413 New York 1,678,096 1,585,940 1,658,407 1,673,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oregon 440,446	Missouri	•						•
Nevada 199,971 202,470 195,295 203,043 206,354 201,947 208,142 New Hampshire 50,714 49,518 48,234 47,465 50,327 52,115 52,037 New Jersey 459,290 456,977 457,776 449,970 452,574 452,882 452,465 New York 1,678,096 1,585,940 1,658,407 1,673,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island	Montana	•						
New Hampshire 50,714 49,518 48,234 47,465 50,327 52,115 52,037 New Jersey 459,290 456,977 457,776 449,970 452,574 452,882 452,465 New Mexico 191,531 196,603 198,008 198,725 202,065 197,384 205,413 New York 1,678,096 1,585,940 1,658,407 1,673,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,700 Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania	Nebraska	•						
New Jersey 459,290 456,977 457,776 449,970 452,574 452,882 452,465 New Mexico 191,531 196,603 198,008 198,725 202,065 197,384 205,413 New York 1,678,096 1,585,940 1,658,407 1,673,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 99,732 101,932 100,771 99,952 99,640 South Carolina		•						•
New Mexico 191,531 196,603 198,008 198,725 202,065 197,384 205,413 New York 1,678,096 1,585,940 1,658,407 1,673,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina	New Hampshire	•				•	-	•
New York 1,678,096 1,585,940 1,658,407 1,673,567 1,668,394 1,672,183 1,623,849 North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota	New Jersey	•						•
North Carolina 804,590 812,761 808,476 785,589 798,142 798,643 796,349 North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397	New Mexico	•						
North Dakota 24,660 24,517 24,007 24,749 24,126 24,264 23,614 Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397		1,678,096						
Ohio 782,283 826,962 795,429 806,482 809,842 824,993 785,708 Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Oklahoma 266,982 260,991 262,635 270,188 259,720 264,412 265,570 Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052	North Dakota	,	,		•			•
Oregon 440,446 444,777 439,513 444,972 445,307 438,052 442,105 Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316	Ohio	782,283	826,962	795,429	806,482		824,993	•
Pennsylvania 906,271 908,019 906,251 899,966 910,386 901,155 914,195 Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767	Oklahoma	266,982	260,991	262,635	270,188	259,720	264,412	•
Rhode Island 100,020 99,405 99,732 101,932 100,771 99,952 99,640 South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853	Oregon	440,446	·	·	444,972	445,307	438,052	•
South Carolina 386,311 368,143 384,984 378,743 377,302 381,374 373,029 South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928	Pennsylvania	906,271	908,019	906,251	899,966	910,386	901,155	•
South Dakota 43,074 42,354 43,331 43,832 43,754 42,843 43,411 Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082	Rhode Island	100,020		99,732	101,932	100,771	99,952	
Tennessee 638,397 628,458 609,784 602,892 611,689 614,716 605,837 Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,6	South Carolina	386,311	368,143	384,984	378,743	377,302	381,374	
Texas 1,575,397 1,581,394 1,547,567 1,536,160 1,544,770 1,543,069 1,530,217 Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600	South Dakota	43,074	42,354	43,331	43,832	43,754	42,843	
Utah 86,974 87,266 87,285 89,118 88,713 88,311 86,567 Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	Tennessee	638,397	628,458	609,784	602,892	611,689	614,716	605,837
Vermont 45,052 45,655 45,767 45,829 45,490 45,251 44,882 Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	Texas	1,575,397	1,581,394	1,547,567	1,536,160	1,544,770	1,543,069	1,530,217
Virginia 419,316 404,092 413,867 397,644 395,589 389,678 400,467 Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	Utah	86,974	87,266	87,285	89,118	88,713	88,311	86,567
Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	Vermont	45,052	45,655	45,767	45,829	45,490	45,251	44,882
Washington 578,767 576,778 577,737 578,401 569,757 575,160 572,959 West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	Virginia	419,316	404,092	413,867	397,644	395,589	389,678	400,467
West Virginia 180,853 173,222 181,657 182,600 180,284 181,004 181,048 Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	_							572,959
Wisconsin 409,928 412,640 400,790 416,517 409,101 412,483 403,293 Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	West Virginia	180,853	173,222	181,657	182,600	180,284	181,004	181,048
Wyoming 13,082 12,868 13,474 13,321 13,820 14,017 13,827 Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	Wisconsin	409,928	412,640	400,790			412,483	403,293
Guam 15,482 14,665 14,896 15,191 15,304 15,626 15,221 Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408	Wyoming		12,868					13,827
Virgin Islands 12,126 12,600 12,534 12,569 12,385 12,460 12,408		•						15,221
	Virgin Islands							12,408
0111100 010100	United States	22,446,305	22,426,032	22,407,372	22,343,498	22,339,650	22,341,227	22,239,821

Table D.1b. Calculated weighted unit counts by State (May 2015 to September 2015) and FY average

State 2015	•						
Alabama 414,376 416,887 415,881 410,833 416,029 416,304 Alaska 35,538 35,990 35,328 35,040 34,755 A1,007 Arizona 430,884 430,907 429,398 438,572 434,498 436,182 Arizona 200,363 200,743 202,413 205,666 209,917 California 2,080,110 2,115,588 2,095,275 2,123,659 20,104,918 2,070,147 Colorado 229,931 232,906 231,402 230,279 219,258 230,445 Colorado 229,931 232,906 231,402 230,279 219,258 230,445 51,114 Delaware 70,637 71,839 71,231 68,730 70,343 70,862 Borlida 2,000,595 2,011,166 1,990,601 2,014,485 2,028,944 2,007,709 488 Florida 90,564 80,958 88,191 92,501 92,025 93,555 Lishiri 90,564 90		May	June	July	August	September	FY average
Alaska 35,638 5,990 55,328 35,049 34,755 34,057 Artizona 430,884 433,907 429,398 438,572 434,496 436,182 Artareas 204,383 208,743 202,413 205,056 205,978 209,107 California 2,080,310 2,115,586 2,952,75 2,123,659 2,104,916 Colorado 229,931 252,906 231,402 230,279 219,258 230,445 Cornecticut 247,556 244,672 247,110 247,960 241,361 245,614 Delaware 70,637 71,839 71,231 68,730 70,343 District of Columbia 78,098 78,353 79,760 79,336 78,505 79,468 Florida 2,000,595 2,011,166 1,990,601 2,014,845 2,028,944 2,007,709 Georgia 831,987 836,195 829,262 831,315 819,864 834,200 Hawaii 90,564 90,956 88,191 92,501 92,025 93,655 Idaho 83,506 79,950 80,019 80,736 80,329 82,953 Illinios 1,046,622 1,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indiana 362,183 368,841 362,553 363,304 355,573 372,246 Indiana 362,183 368,841 362,553 363,304 355,573 372,246 Indiana 362,183 368,841 380,612 173,585 177,283 183,114 Kanasa 121,149 120,660 119,139 119,866 117,390 121,521 Kantuska 121,149 120,660 119,139 119,866 117,390 121,521 Kantuska 136,612 136,636 141,313 180,612 173,585 177,283 183,114 Kanasa 121,149 120,660 119,139 119,866 117,390 121,521 Kantuska 136,636 136,946 338,269 392,300 395,122 392,573 387,452 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Mayland 406,276 399,053 388,447 406,245 400,336 402,042 Massachusetts 437,163 445,361 447,926 444,309 428,619 444,405 Michigan 820,586 815,469 811,481 807,555 802,001 222,068 Minnesota 226,178 239,196 399,48 394,131 399,280 396,516 Minssouri 396,912 399,166 399,948 394,131 399,280 396,516 Minssouri 396,912 399,166 399,948 394,131 399,280 396,516 North Minssouri 369,912 399,166 399,481 399,393 294,494 49,974 494,000 494,457 494,405 494,405 494,405 494,405 494,405 494,405 494,405 494,405 494,405 494,405 494,405 494,405 494,405 494,	State	2015	2015	2015	2015	2015	
Artzona 430,884 433,907 429,388 438,572 434,496 436,182 Artanesas 204,383 208,743 202,413 205,056 206,978 209,107 California 2,080,310 2,115,586 2,095,275 2,123,659 2,104,918 2,070,147 Colorado 228,931 232,906 231,402 230,279 219,288 230,445 Connecticut 247,556 244,572 247,110 247,960 241,361 245,814 Delaware 70,637 71,839 71,231 88,730 70,343 70,866 District of Columbia 78,098 78,353 79,760 79,336 78,505 79,468 Florida 2,000,595 2,011,166 1,990,601 2,014,845 2,028,944 2,007,709 Calvilla 81,997 83,819 829,622 831,315 819,854 834,200 Alawaii 90,564 90,956 81,911 92,501 92,025 93,655 Idiahoh 33,506 79,950 80,019 80,736 80,329 82,953 Illinois 1,064,622 1,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indiana 362,183 368,841 362,553 363,304 355,753 372,246 lowa 180,636 181,913 180,612 173,555 177,283 183,114 Kansas 121,149 120,660 119,139 119,886 117,390 121,521 Kentucky 365,261 399,540 392,306 395,122 392,573 387,452 Maine 130,313 100,315 100,315 100,315 100,315 100,315 100,315 100,315 100,315 100,315 100,316 100,316 100,316 Maine 103,013 100,315 100,316 Maine 103,013 100,315 100,316 Maine 103,013 104,115 Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Minesaka 20,568 815,469 811,481 807,555 802,001 822,068 Minesaka 20,568 815,469 811,481 807,555 802,001 822,068 Minesaka 20,568 815,469 811,481 807,555 802,001 822,068 Minesaka 20,568 815,469 811,481 807,555 802,001 822,008 Minesaka 76,553 70,445 81 80,445 803,447 803,447 804,040 294,644 Minesaka 76,553 70,445 81 803,447 8	Alabama	414,375	415,687	415,581	410,833	416,029	416,304
Arkansas 204,383 206,743 202,413 205,056 206,978 209,107 California 2,080,310 2,115,586 2,095,275 2,123,659 2,104,918 2,070,147 Colorado 229,931 232,906 231,402 230,279 219,258 230,445 Connecticut 247,556 244,672 247,110 247,960 241,361 245,614 Delaware 70,637 71,839 71,231 68,730 70,343 70,886 Plothware 70,637 71,839 71,231 81,315 819,854 834,200 Plawarii 90,564 90,956 88,191 92,561 92,025 93,655 Idaho 35,566 79,950 80,019 80,736 80,329 82,953 Illinois 10,64,622 1,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indiana 362,183 368,841 362,553 363,304 355,573 372,246 lowa 180,636 181,913 180,612 173,585 177,283 183,114 Kansas 121,149 120,660 119,139 119,886 117,390 121,521 Kentucky 365,261 359,540 352,447 340,489 337,595 362,806 Louislana 386,738 388,269 392,306 395,122 332,573 387,482 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Mayland 406,276 399,053 388,447 406,245 400,336 402,042 Massachusetts 437,163 445,361 447,926 444,309 428,619 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,086 Michigan 820,586 815,469 811,481 807,555 802,001 822,086 Michigan 820,586 815,469 811,481 807,555 802,001 822,086 Michigan 820,586 815,469 814,481 809,555 802,001 822,086 815,460 802,001 802,003 802,003 802,003 802,003 802,003 802,003 802,003 802,003 8	Alaska	35,638	35,990	35,328	35,049	34,755	34,057
California 2,080,310 2,115,586 2,095,275 2,123,659 2,104,918 2,070,147 Colorado 229,931 232,908 231,402 230,279 219,228 220,045 Connecticut 247,556 244,672 247,110 247,960 241,361 245,814 Delaware 70,637 71,839 71,231 68,730 70,343 70,866 District of Columbia 78,098 78,353 79,760 79,336 78,505 79,486 Florida 2,000,595 2,011,166 1,990,601 2,014,845 2,028,944 2,007,709 Hawaii 90,564 90,956 81,911 92,025 93,655 164ho 103,7873 1,050,882 2,025 93,655 164ho 103,7873 1,050,882 1,047,486 104,7486 103,7873 1,050,882 1,047,486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 104,7486 <td>Arizona</td> <td>430,884</td> <td>433,907</td> <td>429,398</td> <td>438,572</td> <td>434,496</td> <td>436,182</td>	Arizona	430,884	433,907	429,398	438,572	434,496	436,182
Colorado 229,931 232,906 231,402 230,279 219,258 230,454 245,610 Connecticut 247,556 244,672 247,110 247,960 241,361 245,841 Delaware 70,637 71,839 71,231 68,730 70,343 70,866 District of Columbia 78,098 78,353 79,600 79,336 78,505 79,468 District of Columbia 78,098 78,353 79,600 79,336 78,505 79,468 Pflorida 2,000,595 2,011,168 1,990,601 2,014,845 2,028,944 2,007,709 Georgia 831,987 836,195 829,262 831,315 919,854 334,200 Georgia 831,987 836,195 829,262 831,315 919,854 334,200 Georgia 83,506 79,950 80,019 80,736 80,329 82,953 Illinois 1,004,622 1,045,715 1,042,650 1,037,373 1,050,822 1,047,486 Indiana 362,183 388,841 362,553 363,304 355,573 372,246 Indiana 362,183 388,841 362,553 363,304 355,573 372,246 Indiana 362,183 388,841 362,553 363,304 355,573 372,246 Indiana 366,738 388,560 19,191,193 119,886 117,390 121,521 Kentucky 365,261 359,540 352,447 340,489 337,595 362,508 Mine 103,013 100,315 102,491 101,644 100,330 104,115 Chuisliana 386,738 388,549 392,306 395,122 392,573 387,452 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Michigan 820,566 815,469 811,481 807,555 802,001 422,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 807,555 802,001 222,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 389,196 399,48 394,131 399,280 396,615 Montana 52,607 64,535 53,167 53,630 53,288 54,284 New Ada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 781,488 783,241 77,96 78,422 76,881 North Carolina 784,405 343,829 426,293 433,356 433,356 439,261 193,376,377 1,589,617 78,589,617 79,177,66 791,172 303,519 100,040 New York 1,532,577 1,558,617 79,566 24,895 24,895 24,895 24,895 24,		204,363	206,743	202,413	205,056	206,978	209,107
Connecticut 247,556 244,672 247,110 247,980 241,381 245,814 Delaware 70,637 71,839 71,231 68,730 70,343 70,866 District of Columbia 78,998 78,333 79,760 79,338 78,505 79,468 Flonda 2,000,595 2,011,166 1,990,601 2,014,845 2,029,944 2,007,709 Hawaii 90,664 90,966 88,191 92,501 92,025 93,855 Idaho 83,506 79,990 80,019 80,736 80,329 82,953 Illinois 1,064,622 1,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indian 362,883 368,841 362,533 363,304 355,573 372,246 Ilmiosi 1,064,622 1,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indian 363,34 388,841 362,523 363,304 355,733 372,466 Kentucky 365,261 360,566<	California	2,080,310	2,115,586	2,095,275	2,123,659	2,104,918	2,070,147
Delaware	Colorado	229,931	232,906	231,402	230,279	219,258	· ·
District of Columbia 78,088 78,333 79,760 79,336 78,505 79,468 Florida 2,000,595 2,011,166 1,990,601 2,014,845 2,028,944 2,007,706 Georgia 831,987 836,195 829,262 831,315 819,854 834,200 Hawaii 90,564 90,956 80,019 80,736 80,329 82,953 Illinois 1,064,622 10,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indiana 362,183 368,841 362,553 363,304 355,573 372,246 lowa 180,836 181,913 180,612 173,585 177,283 183,114 Kansas 121,149 120,660 119,139 119,886 117,390 121,521 Maine 103,013 100,315 102,491 101,644 100,330 121,521 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Massachusets 437,163 445,361 447,926 444,309 428,619 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,018 Mississippi 292,349 826,109 289,148 807,555 802,001 822,018 Mississippi 292,349 826,109 289,148 293,913 294,400 294,654 Mississippi 292,349 826,109 289,149 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,409 449,4	Connecticut	247,556	244,672	247,110	247,960	241,361	,
Florida	Delaware	70,637	71,839	71,231	68,730	70,343	
Georgia 831,987 836,195 829,262 831,315 819,854 834,200 Idaho 90,564 90,956 80,019 80,736 80,329 82,953 Illinois 1,064,622 1,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indiana 362,183 368,841 362,553 383,304 355,573 372,246 Iowa 180,636 181,913 180,612 173,585 177,283 183,114 Kansas 121,149 120,660 119,139 119,886 117,390 121,521 Kentucky 365,261 359,540 352,447 340,489 337,595 362,808 Louisiana 386,738 388,269 392,306 395,122 392,573 387,452 Maine 103,013 100,315 102,491 10,644 400,330 104,115 Maryand 406,276 399,053 388,477 406,245 400,386 402,042 Maryand 402,276 399,053 388,474	District of Columbia	78,098	78,353	79,760	79,336	78,505	
Hawaii	Florida	2,000,595	2,011,166	1,990,601	2,014,845	2,028,944	
Idaho	Georgia	831,987	836,195	829,262	831,315	819,854	
Illinois 1,064,622 1,045,715 1,042,650 1,037,873 1,050,682 1,047,486 Indiana 362,183 368,841 362,553 363,304 355,573 372,246 Iowa 180,636 181,913 180,612 173,585 177,283 183,114 Kansas 121,149 120,660 119,139 119,886 117,390 121,521 Kentucky 365,261 359,540 352,447 340,489 337,595 362,208 Louisiana 386,738 388,269 392,306 395,122 392,573 387,452 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Maryland 406,276 399,9053 388,447 406,245 400,386 402,042 Massachusetts 437,163 445,361 447,926 444,309 428,619 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954	Hawaii	90,564	90,956	88,191	92,501	92,025	
Indiana 362,183 368,841 362,553 363,304 355,573 372,246 lowa 180,636 181,913 180,612 173,955 177,283 183,114 Kansas 121,149 120,660 119,139 119,886 117,390 21,521 Kentucky 365,261 359,540 352,447 340,489 337,595 362,808 Louisiana 386,738 388,269 392,306 395,122 392,573 387,452 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Massachusetts 437,163 445,361 447,926 444,309 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mercico 204,208 200,346 202,794 203,998 246,807 274,807 294,938 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24	Idaho	83,506	79,950	80,019	·	80,329	
Iowa	Illinois	1,064,622	1,045,715	1,042,650	1,037,873	1,050,682	
Kansas 121,149 120,660 119,139 119,886 117,390 121,521 Kentucky 365,261 359,540 352,447 340,489 337,595 362,808 368,738 388,269 392,306 395,122 392,573 387,452 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Mischigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nevada 70,538 76,045 78,264 77,796 78,742 76,881 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,324 49,324 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mexico 204,208 200,346 202,794 203,998 199,997 200,006 New York 1,639,277 1,589,8617 590,271 1,647,478 1,626,666 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 491,248 266,702 270,896 266,266 266,028 Oregon 455,500 433,829 426,293 436,358 433,956 439,281 North Dakota 24,826 24,835 24,804 24,725 24,807 791,72 803,519 Chalona 374,405 372,078 372,087 372,087 372,087 373,381 504,405 372,078 372,087 372,087 373,387 591,302 447,504 42,953 436,358 433,956 439,261 504,447 504,447 504,448 266,702 270,896 266,266 266,028 Oregon 455,500 433,829 426,293 436,358 433,956 439,261 504,447 504,449 504,447 587,872 586,477 583,800 42,995 42,995 42,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Dakota 42,806 42,995 42,779 42,756 41,944 42,953 104,640 130,646 130,646 130,647 130,647 130,648 130,648 130,649 130	Indiana	362,183	368,841	362,553	363,304	355,573	
Kentucky 365,261 359,540 352,447 340,489 337,595 362,808 Louisiana 386,738 388,269 392,306 395,122 392,573 387,452 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Jersey 436,147 490,50 450	lowa	180,636	181,913	180,612	173,585	177,283	
Louisiana 386,738 388,269 392,306 395,122 392,573 387,452 Maine 103,013 100,315 102,491 101,644 100,330 104,115 Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Massachusetts 437,163 445,361 447,926 444,309 428,619 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,676 53,630 53,288 54,284 Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 New Hampshire 51,471 50,311	Kansas	121,149	120,660	119,139	119,886	117,390	
Maine 103,013 100,315 102,491 101,644 100,330 104,115 Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Massachusetts 437,163 445,361 447,926 444,309 428,619 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 293,913 294,400 294,664 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 <th< td=""><td>Kentucky</td><td>365,261</td><td>359,540</td><td>352,447</td><td>340,489</td><td>337,595</td><td></td></th<>	Kentucky	365,261	359,540	352,447	340,489	337,595	
Maryland 406,276 399,053 388,447 406,245 400,386 402,042 Massachusetts 437,163 445,361 447,926 444,309 428,619 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Missispipi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Newada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New York 1,639,277 ,589,617	Louisiana	386,738	388,269	392,306	395,122	392,573	
Massachusetts 437,163 445,361 447,926 444,309 428,619 442,405 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Misnosouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 New dada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,911 New Jersey 436,147 449,050 450,355 453,611 449,490 451,715 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 </td <td>Maine</td> <td>103,013</td> <td>100,315</td> <td>102,491</td> <td></td> <td>100,330</td> <td></td>	Maine	103,013	100,315	102,491		100,330	
Michigan 820,586 815,469 811,481 807,555 802,001 822,068 Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Horko 204,208 200,346 202,794 203,998 198,997 200,006 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488	Maryland	406,276	399,053	388,447	406,245	400,386	•
Minnesota 226,178 236,954 233,088 228,538 230,516 233,111 Mississippi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Hersey 436,147 449,050 450,352 453,611 449,490 451,715 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 266,549 271,488 783,281 766,975 792,763 792,936 Oregon 445,530 433,829 4	Massachusetts	437,163	445,361	447,926	444,309	428,619	•
Mississippi 292,349 282,109 289,148 293,913 294,400 294,654 Missouri 398,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mexico 204,208 200,346 202,794 203,998 198,997 200,006 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063	Michigan	820,586	815,469	811,481	807,555	802,001	822,068
Missouri 399,912 399,196 399,948 394,131 399,280 396,515 Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mexico 204,208 200,346 202,794 203,998 198,997 200,066 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,049 271,488 <	Minnesota	226,178	236,954	233,088	228,538	230,516	233,111
Montana 52,607 54,535 53,167 53,630 53,288 54,284 Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 4	Mississippi	292,349	282,109	289,148	293,913	294,400	294,654
Nebraska 76,538 76,045 78,264 77,796 78,742 76,881 Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mexico 204,208 200,346 202,794 203,998 198,997 200,006 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430	Missouri	398,912	399,196	399,948	394,131	399,280	396,515
Nevada 209,608 207,276 209,219 218,067 217,155 206,546 New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mexico 204,208 200,346 202,794 203,998 198,997 200,006 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 226,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430	Montana	52,607	54,535	53,167	53,630	53,288	54,284
New Hampshire 51,471 50,311 48,342 49,328 49,784 49,971 New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mexico 204,208 200,346 202,794 203,998 198,997 200,006 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 260,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 9	Nebraska	76,538	76,045	78,264	77,796	78,742	76,881
New Jersey 436,147 449,050 450,352 453,611 449,490 451,715 New Mexico 204,208 200,346 202,794 203,998 198,997 200,006 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 <	Nevada	209,608	207,276	209,219	218,067	217,155	206,546
New Mexico 204,208 200,346 202,794 203,998 198,997 200,006 New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360	New Hampshire	51,471		48,342	49,328	49,784	49,971
New York 1,639,277 1,589,617 1,590,271 1,647,478 1,626,892 1,637,831 North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Texas 1,515,726 1,55	New Jersey	436,147	449,050	450,352	453,611	449,490	451,715
North Carolina 786,171 781,488 783,281 766,975 792,763 792,936 North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472	New Mexico	204,208	200,346	202,794	203,998	198,997	200,006
North Dakota 24,826 24,835 24,804 24,725 24,807 24,494 Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526	New York	1,639,277	1,589,617	1,590,271	1,647,478	1,626,892	1,637,831
Ohio 826,054 812,063 807,362 773,876 791,172 803,519 Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 <	North Carolina	786,171	781,488	783,281	766,975	792,763	792,936
Oklahoma 266,490 271,488 266,702 270,896 266,266 266,028 Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 <	North Dakota	24,826	24,835	24,804	24,725	24,807	24,494
Oregon 445,530 433,829 426,293 436,358 433,956 439,261 Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592	Ohio	826,054	812,063	807,362	773,876	791,172	803,519
Pennsylvania 921,046 923,430 930,751 938,705 942,847 916,919 Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988	Oklahoma	266,490	271,488	266,702	270,896	266,266	266,028
Rhode Island 100,626 99,483 98,296 100,921 99,697 100,040 South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752	Oregon	445,530	433,829	426,293	436,358	433,956	
South Carolina 374,405 372,078 372,087 377,132 372,133 376,477 South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883	Pennsylvania	921,046	923,430	930,751	938,705	942,847	916,919
South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684	Rhode Island	100,626	99,483	98,296	100,921	99,697	100,040
South Dakota 42,360 42,995 42,779 42,756 41,944 42,953 Tennessee 595,674 601,447 587,872 586,477 583,380 605,552 Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684	South Carolina	374,405	372,078	372,087	377,132	372,133	376,477
Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	South Dakota						42,953
Texas 1,515,726 1,550,472 1,537,611 1,561,516 1,571,497 1,549,616 Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	Tennessee	595,674	601,447	587,872	586,477	583,380	605,552
Utah 88,397 86,526 86,896 85,440 85,336 87,236 Vermont 43,825 44,321 43,973 43,969 43,072 44,757 Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	Texas	1,515,726		1,537,611			1,549,616
Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	Utah	88,397	86,526	86,896	85,440	85,336	87,236
Virginia 387,656 393,236 392,395 370,354 375,563 394,988 Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	Vermont	43,825	44,321	43,973	43,969	43,072	44,757
Washington 570,554 551,592 550,467 557,312 554,529 567,834 West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	Virginia	387,656	·	392,395	·		394,988
West Virginia 182,415 175,988 182,727 177,746 179,616 179,930 Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	=					554,529	567,834
Wisconsin 390,134 400,752 394,153 385,208 383,619 401,552 Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485		•	•			179,616	179,930
Wyoming 13,723 13,883 13,874 12,911 13,549 13,529 Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	<u> </u>			394,153	385,208	383,619	401,552
Guam 15,586 15,665 15,684 15,779 15,581 15,390 Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485	Wyoming						13,529
Virgin Islands 12,568 12,050 12,242 12,850 13,022 12,485		·	· ·		·		15,390
			·		·		12,485
Office Office	United States	22,237,131	22,232,146	22,120,462	22,211,280	22,173,123	22,293,171

Table D.2a. Calculated weighted individual counts by State (October 2014 to April 2015)

April 2010)							
	October	November	December	January	February	March	April
State	2014	2014	2014	2015	2015	2015	2015
Alabama	897,572	884,651	902,267	894,443	888,274	885,245	869,304 84,291
Alaska	66,828	77,908	77,642	79,734	80,129	81,429	956,528
Arizona	1,040,557	1,017,693	1,007,057	1,007,623	965,565	964,184	
Arkansas	471,409	481,749	478,059	454,560	448,832	460,217	446,451
California	4,093,371	4,381,564	4,210,717	4,294,034	4,332,350	4,410,913	4,415,987
Colorado	494,811	491,774	503,645	500,125	473,172	490,710	493,102
Connecticut	436,692	445,897	439,906	443,804	433,140	435,872	434,127
Delaware	149,235	147,800	153,419	150,224	140,499	149,905	142,002
District of Columbia	145,070	141,589	141,513	142,476	138,338	140,817	138,835
Florida	3,695,060	3,686,064	3,689,976	3,668,493	3,642,572	3,624,900	3,607,878
Georgia	1,852,846	1,817,002	1,801,740	1,776,584	1,782,600	1,779,106	1,750,230
Hawaii	192,092	187,863	189,976	189,450	188,829	186,722	180,327
Idaho	197,869	198,435	194,820	199,944	199,709	195,982	197,356
Illinois	1,880,644	2,007,463	2,034,299	2,012,581	2,048,833	2,029,119	2,045,280
Indiana	851,282	845,933	819,878	811,892	839,656	815,052	822,483
Iowa	392,019	396,004	390,952	395,994	391,235	390,290	390,277
Kansas	282,027	279,229	277,806	275,244	275,885	271,511	272,697
Kentucky	783,869	796,518	783,142	788,177	757,369	759,472	759,211
Louisiana	873,547	848,515	848,417	856,114	845,883	843,459	826,733
Maine	215,430	208,044	209,935	197,281	194,260	192,105	197,886
Maryland	789,349	786,347	786,745	781,136	778,493	754,890	775,307
Massachusetts	817,015	781,038	769,319	764,264	773,297	745,535	751,607
Michigan	1,613,544	1,567,737	1,593,345	1,553,624	1,583,866	1,567,420	1,569,228
Minnesota	480,603	475,686	491,926	484,686	479,701	467,975	491,329
Mississippi	652,120	642,182	648,814	643,651	638,502	631,050	628,098
Missouri	833,624	830,489	849,694	836,393	842,509	834,463	844,467
Montana	117,611	110,952	118,115	118,308	117,109	117,772	105,927
Nebraska	171,307	170,757	173,296	167,660	170,302	173,617	170,613
Nevada	401,354	408,215	382,984	402,127	413,476	392,422	414,306
New Hampshire	103,969	101,927	96,234	96,358	103,690	107,499	107,244
New Jersey	919,480	914,198	915,614	885,238	903,626	904,816	904,012
New Mexico	427,195	437,938	439,312	440,019	444,763	435,014	452,905
New York	3,068,825	2,842,254	2,997,524	3,055,942	3,045,194	3,050,058	2,928,532
North Carolina	1,640,627	1,647,975	1,661,672	1,594,280	1,632,755	1,631,349	1,627,167
North Dakota	52,862	52,505	51,536	53,005	52,470	51,425	47,509
Ohio	1,617,414	1,697,147	1,633,261	1,651,858	1,663,237	1,691,441	1,608,502
Oklahoma	592,773	557,093	566,897	594,033	568,946	581,276	586,476
Oregon	768,120	786,462	781,540	786,186	785,435	769,855	778,397
Pennsylvania	1,813,280	1,815,612	1,808,787	1,773,797	1,810,998	1,784,984	1,815,225
Rhode Island	175,926	172,304	174,763	177,356	174,800	174,100	170,245
South Carolina	819,056	796,392	815,073	800,718	797,462	804,886	790,027
South Dakota	98,624	96,509	98,881	99,759	99,383	96,315	98,970
Tennessee	1,286,059	1,264,669	1,222,740	1,191,342	1,226,271	1,232,834	1,216,681
Texas	3,795,117	3,782,821	3,663,745	3,651,721	3,684,002	3,676,661	3,651,040
Utah	222,366	220,955	224,781	227,251	226,479	226,077	216,655
Vermont	84,830	87,208	87,263	87,270	86,363	85,569	84,686
Virginia	884,933	854,264	876,230	850,758	849,179	830,774	854,306
Washington	1,083,140	1,082,731	1,079,737	1,145,530	1,061,028	1,071,764	1,063,849
_	367,993	345,989	367,943	369,156	364,726	363,087	363,767
West Virginia	,	-		·	,	•	786,316
Wisconsin	808,869	807,449	765,566	820,056	810,834	812,728	·
Wyoming	30,726	29,583	32,029	30,834	32,419	32,888	32,604 46,102
Guam	47,543	43,859	44,116	46,464	46,217	47,342	46,192
Virgin Islands	26,820	27,666	27,453	27,575	27,062	27,125	26,999
United States	45,625,305	45,580,607	45,402,101	45,347,130	45,361,725	45,282,022	45,040,174

Table D.2b. Calculated weighted individual counts by State (May 2015 to September 2015) and FY average

	May	June	July	August	September	FY average
State	2015	2015	2015	2015	2015	2015
Alahama	001 1/7	002 164	883,077	878,211	882,759	885,843
Alabama Alaska	881,147 85,117	883,164 86,215	84,479	83,988	82,834	80,883
Arizona	978,128	983,839	957,987	992,876	959,976	986,001
	440,828	450,267	440,311	443,829	452,792	455,775
Arkansas	·	•		•	•	4,346,007
California	4,400,063	4,429,146	4,371,309	4,441,949	4,370,682	489,173
Colorado	490,694	492,908	489,675	488,427	461,026	436,661
Connecticut	439,722	430,715	438,918	440,074	421,059	146,982
Delaware	146,947	149,593	148,094	142,560	143,513	140,330
District of Columbia	137,006	136,688	141,468	140,883	139,276	
Florida	3,630,463	3,646,571	3,628,030	3,653,696	3,677,655	3,654,280 1,789,103
Georgia	1,785,403	1,796,931	1,783,872	1,787,148	1,755,777	184,664
Hawaii	182,093	177,889	174,145	183,649	182,927	
Idaho	195,814	188,039	186,668	188,460	187,716	194,234
Illinois	2,044,847	2,025,775	1,989,803	1,981,229	2,014,280	2,009,513
Indiana	788,308	802,695	789,639	796,358	762,572	812,146
lowa	381,693	386,392	384,643	369,358	377,049	387,159
Kansas	271,883	270,870	267,753	269,842	263,112	273,155
Kentucky	761,750	754,709	740,969	717,648	697,835	758,389
Louisiana	854,073	855,741	865,685	871,708	871,813	855,141
Maine	199,508	193,342	197,987	196,771	193,720	199,689
Maryland	781,337	746,497	734,176	781,497	759,336	771,259
Massachusetts	758,562	776,941	781,015	757,620	730,841	767,255
Michigan	1,564,370	1,554,285	1,544,844	1,538,126	1,526,238	1,564,719
Minnesota	456,159	480,284	476,455	472,728	458,065	476,300
Mississippi	628,737	610,096	618,826	629,081	627,469	633,219
Missouri	844,083	844,851	846,529	831,558	845,105	840,314
Montana	111,670	116,843	115,396	115,139	114,253	114,925
Nebraska	170,196	167,279	174,963	174,364	176,472	171,735
Nevada	417,316	395,745	407,329	435,785	425,867	408,077
New Hampshire	106,022	104,528	98,269	98,678	102,838	102,271
New Jersey	846,446	896,318	899,713	906,370	897,652	899,457
New Mexico	452,239	445,627	445,509	451,850	446,010	443,198
New York	3,004,121	2,821,969	2,858,695	3,001,608	2,976,623	2,970,946
North Carolina	1,583,619	1,584,452	1,581,974	1,529,443	1,615,510	1,610,902
North Dakota	53,185	53,293	53,217	52,980	53,323	52,276
Ohio	1,695,975	1,659,826	1,648,146	1,568,470	1,611,783	1,645,588
Oklahoma	585,872	600,596	588,771	602,523	584,513	584,147
Oregon	790,867	754,931	727,756	767,181	762,308	771,586
Pennsylvania	1,828,419	1,830,489	1,844,556	1,858,713	1,863,656	1,820,710
Rhode Island	173,923	171,474	166,578	173,977	168,082	172,794
South Carolina	793,353	787,526	786,314	799,056	785,705	797,964
South Dakota	97,395	98,227	97,981	98,067	96,659	98,064
Tennessee	1,190,784	1,207,553	1,188,369	1,185,635	1,168,763	1,215,142
Texas	3,607,607	3,710,572	3,710,594	3,742,946	3,754,421	3,702,604
Utah	226,945	222,194	223,055	219,631	219,172	222,963
Vermont	79,806	83,218	82,314	82,340	81,250	84,343
Virginia	825,348	835,547	835,248	791,682	793,396	840,139
Washington	1,059,863	1,006,111	993,719	1,019,201	1,033,013	1,058,307
West Virginia	368,144	337,212	369,447	350,791	361,313	360,797
Wisconsin	761,096	790,537	810,851	758,806	765,008	791,510
Wyoming	32,535	32,960	32,193	30,280	31,950	31,750
Guam	47,023	47,078	47,138	47,452	46,885	46,442
Virgin Islands	27,361	26,768	26,131	27,722	28,079	27,230
United States	45,065,868	44,943,314	44,780,583	44,969,963	44,809,930	45,184,060
Officed Glates	₹3,003,000	TT,UTU,U14	TT, 1 00,000	 ,505,503	 ,003,330	₹0, 10 1 ,000

Table D.3a. Calculated weighted benefit amounts by State (October 2014 to April 2015)

• /							
	October	November	December	January	February	March	April
State	2014	2014	2014	2015	2015	2015	2015
Alabama	111 510 101	444 005 070	111 200 001	112 100 010	440.040.047	444 440 007	106,496,531
Alabama	114,549,134	111,995,878	114,280,984	113,468,049	110,618,947	111,118,897	14,876,156
Alaska	11,345,983	13,166,713	13,322,068	14,111,526	14,084,188	14,288,156	111,510,764
Arizona	123,877,969	119,322,933	123,907,910	121,094,086	120,352,490	118,974,869	
Arkansas	54,671,295	54,179,082	54,054,261	52,082,525	49,645,721	51,328,052	51,121,436
California	565,330,025	628,955,891	623,804,825	610,423,578	598,130,559	610,399,036	611,105,517
Colorado	64,698,678	63,853,290	64,633,225	65,728,968	60,781,939	63,876,575	64,400,579
Connecticut	61,637,386	60,411,334	61,420,964	61,093,686	59,610,808	58,517,093	59,166,871
Delaware	18,729,653	19,154,616	19,312,219	19,334,278	18,410,196	18,966,513	18,450,619
District of Columbia	18,081,158	17,096,978	17,978,981	17,506,367	18,045,941	17,194,989	17,298,028
Florida	481,658,948	477,729,755	471,445,819	474,553,773	466,731,311	466,880,629	461,931,332
Georgia	235,209,815	226,324,116	222,049,108	219,518,859	229,296,794	221,468,910	222,796,849
Hawaii	43,684,523	42,259,280	41,627,838	42,286,534	41,340,029	40,648,946	38,839,564
Idaho	23,054,790	22,925,140	22,109,219	23,033,931	22,884,042	22,488,975	22,565,951
Illinois	248,331,121	261,570,494	278,831,600	272,446,321	272,455,839	277,286,457	260,342,266
Indiana	110,818,247	100,323,905	96,320,086	101,683,976	99,615,354	102,470,236	101,182,335
lowa	42,606,384	41,571,204	42,684,510	42,194,473	41,744,077	42,614,863	40,958,170
Kansas	32,132,188	31,911,185	31,418,678	30,669,088	31,409,339	31,017,003	31,145,256
Kentucky	97,251,660	95,715,305	91,277,080	91,102,808	89,812,943	90,906,475	89,537,396
Louisiana	109,956,819	107,522,317	104,631,014	106,101,836	105,317,911	105,795,918	102,558,768
Maine	25,749,940	24,991,928	24,686,809	23,011,745	22,952,638	22,883,795	23,318,397
Maryland	97,051,253	96,782,243	95,993,977	93,558,025	95,942,027	92,110,445	91,463,589
Massachusetts	101,009,922	101,691,957	97,446,851	95,278,321	97,489,435	92,014,637	94,281,773
Michigan	208,427,088	203,833,210	199,870,229	194,356,058	189,493,414	192,498,657	201,307,610
Minnesota	51,638,625	50,236,095	49,175,658	51,470,743	50,044,068	49,197,971	52,252,576
Mississippi	79,370,813	78,258,424	77,754,214	76,771,751	76,459,437	75,304,260	75,151,740
Missouri	105,815,586	105,600,277	106,554,267	103,411,312	103,625,378	105,115,861	104,312,376
Montana	14,627,874	12,999,076	14,163,070	14,037,818	13,472,354	14,652,620	12,737,167
Nebraska	20,308,205	20,265,500	19,802,588	19,878,710	18,988,236	19,728,598	20,031,212
Nevada	48,292,426	45,559,463	46,375,857	48,223,686	48,524,276	45,714,740	49,808,128
New Hampshire	10,782,643	10,901,092	10,852,426	10,180,155	10,756,403	10,816,079	10,880,988
New Jersey	113,189,659	112,997,470	109,673,113	107,819,213	108,534,964	107,447,611	106,936,979
New Mexico	51,838,208	55,329,810	53,109,128	53,775,037	53,939,201	55,176,094	54,426,576
New York	431,792,205	397,677,322	411,942,612	425,478,622	427,613,728	428,179,770	399,039,527
North Carolina	202,224,913	188,121,060	187,616,253	190,192,027	193,646,497	198,761,372	186,806,797
North Dakota	6,521,920	6,333,334	6,528,955	6,424,377	6,330,162	6,532,795	6,176,250
Ohio	205,367,363	198,658,363	202,041,267	203,362,936	207,500,024	213,375,967	192,007,243
Oklahoma	71,606,242	67,770,130	67,544,466	70,415,885	69,012,884	70,023,094	69,980,060
Oregon	96,126,418	96,223,534	92,582,801	94,009,055	94,448,001	94,125,590	93,743,491
Pennsylvania	221,854,384	222,497,614	218,632,843	221,518,367	217,961,781	222,462,320	218,282,201
Rhode Island	22,316,592	22,840,295	23,361,839	23,629,454	23,377,409	23,679,707	22,186,086
South Carolina	103,207,470	102,669,741	101,582,134	98,816,497	98,644,991	100,944,234	97,783,513
South Dakota	12,425,381	12,013,969	12,579,585	12,512,988	12,499,358	12,038,996	12,347,088
Tennessee	163,301,505	159,482,577	158,053,823	153,001,773	154,231,098	156,449,519	156,364,883
Texas	452,706,851	449,919,467	443,109,822	432,163,675	434,913,832	430,544,734	428,170,348
Utah	25,785,393	25,872,349	25,747,491	26,205,608	25,884,423	25,666,690	25,354,388
Vermont	10,561,653	10,560,642	10,434,234	10,468,078	10,045,732	10,396,316	10,093,236
Virginia	107,259,079	102,025,920	105,347,937	101,566,117	100,484,946	99,201,826	99,445,277
Washington	130,167,437	127,320,905	126,833,808	129,001,328	128,228,804	128,741,047	128,129,760
West Virginia	41,508,237	38,888,312	40,245,395	39,878,386	38,940,334	39,147,470	40,371,904
Wisconsin	88,901,236	87,005,987	84,189,646	89,211,301	86,950,919	86,591,986	85,767,862
Wyoming	3,815,405	3,844,060	3,743,243	3,710,813	3,894,740	3,860,733	3,815,541
Guam	9,138,935	8,764,191	8,418,889	8,621,685	9,185,226	8,582,080	8,805,804
Virgin Islands	4,537,709	4,679,849	4,627,454	4,556,970	4,636,540	4,577,954	4,583,180
United States		5,748,605,583					
Critica Glates	0,700,004,040	0,170,000,000	0,100,100,010	0,1 17,300,170	0,000,041,004	0,112,100,102	3,312,171,000

Table D.3b. Calculated weighted benefit amounts by State (May 2015 to September 2015) and FY average

	<u> </u>					
	May	June	July	August	September	FY average
State	2015	2015	2015	2015	2015	2015
Alabama	109,685,553	106,007,849	108,353,460	109,431,951	108,817,985	110,402,102
Alaska	14,659,298	14,762,746	14,339,154	14,286,260	13,954,398	13,933,054
Arizona	114,441,779	114,272,461	117,995,328	113,996,633	118,343,362	118,174,215
Arkansas	50,626,131	52,374,100	50,139,596	51,832,421	50,900,751	51,912,947
California	621,227,092	613,821,991	605,101,971	599,118,991	595,532,156	606,912,636
Colorado	61,060,695	63,304,353	63,052,796	62,931,329	60,666,352	63,249,065
Connecticut	58,591,198	57,905,342	57,843,092	57,430,174	58,173,961	59,316,826
Delaware	18,005,431	18,911,359	18,330,252	16,832,200	18,361,488	18,566,569
District of Columbia	17,356,377	17,259,826	18,261,631	17,676,966	18,010,075	17,647,276
Florida	465,389,058	468,910,862	469,253,751	469,349,261	477,410,667	470,937,097
Georgia	229,135,665	225,281,568	226,912,877	227,384,279	219,310,854	225,390,808
Hawaii	40,073,198	39,371,903	38,311,512	40,624,459	40,060,114	40,760,658
Idaho	22,729,679	21,214,211	21,434,223	21,734,202	21,509,644	22,307,001
Illinois	266,066,436	265,227,664	266,021,144	260,545,308	268,980,665	266,508,776
Indiana	97,760,733	98,540,691	93,405,297	94,257,056	91,183,185	98,963,425
lowa	40,566,675	42,126,207	41,855,335	38,290,680	40,633,664	41,487,187
Kansas	30,697,467	30,672,700	30,736,127	30,462,115	29,719,618	30,999,230
Kentucky	90,454,900	87,703,521	88,332,945	84,850,294	83,701,701	90,053,919
Louisiana	108,401,675	106,236,125	109,595,503	109,411,766	108,529,159	107,004,901
Maine	22,386,410	21,881,043	22,114,436	21,895,349	21,418,681	23,107,598
Maryland	95,836,621	92,360,084	84,071,156	93,680,819	89,859,349	93,225,799
Massachusetts	95,416,572	95,689,560	95,681,064	96,245,237	92,774,834	96,251,680
Michigan	187,205,853	189,186,840	189,057,008	184,918,359	182,488,189	193,553,543
Minnesota	50,526,161	50,886,591	48,831,024	49,840,540	48,293,190	50,199,437
Mississippi	74,050,984	71,942,951	72,779,999	73,960,098	74,684,408	75,540,757
Missouri	102,421,009	102,493,016	104,074,031	102,261,650	103,539,873	104,102,053
Montana	13,825,766	13,916,135	13,690,992	13,533,381	13,446,239	13,758,541
Nebraska	19,794,561	19,171,723	19,703,655	19,889,472	20,453,182	19,834,637
Nevada	50,053,060	48,804,545	48,187,949	50,956,575	49,521,814	48,335,210
New Hampshire	11,024,847	10,642,304	10,290,728	10,586,383	10,594,495	10,692,379
New Jersey	104,161,902	104,516,853	103,875,064	106,128,622	103,691,638	107,414,424
New Mexico	55,694,109	54,731,959	55,457,961	54,853,102	50,213,541	54,045,394
New York	411,482,071	396,981,351	400,138,656	417,277,001	397,517,499	412,093,364
North Carolina	196,806,589	188,673,356	190,071,295	189,658,715	181,647,442	191,185,526
North Dakota	6,393,839	6,477,998	6,418,146	6,329,399	6,545,421	6,417,716
Ohio	205,609,346	195,265,811	202,866,168	190,471,491	195,738,357	201,022,028
Oklahoma	70,335,506	71,314,378	70,902,330	72,699,478	72,163,665	70,314,010
Oregon	91,941,102	91,131,892	88,264,813	89,024,479	88,518,264	92,511,620
Pennsylvania	221,199,797	227,327,108	225,557,611	225,481,549	221,413,434	222,015,751
Rhode Island	23,327,077	21,627,845	23,071,000	22,028,233	22,693,128	22,844,889
South Carolina	97,099,236	96,680,941	98,967,150	98,419,043	97,731,773	99,378,894
South Dakota	12,222,207	12,360,436	12,432,195	12,365,822	12,203,816	12,333,487
Tennessee	153,205,044	152,441,982	149,870,098	146,676,255	148,721,183	154,316,645
Texas	430,952,416	431,526,192	426,874,845	438,644,398	435,898,054	436,285,386
Utah	26,415,209	25,848,409	25,199,137	25,199,590	24,929,974	25,675,722
Vermont	10,118,050	10,078,079	10,218,190	10,034,854	9,685,911	10,224,581
Vermont Virginia	98,817,032	96,808,148	92,884,528	93,909,674	96,920,931	99,555,951
Washington	124,712,590	125,102,167	123,799,058	122,383,012	123,350,053	126,480,831
West Virginia	39,459,327	37,838,663	40,038,079	38,887,296	38,859,301	39,505,225
Wisconsin	81,790,429	79,214,862	82,450,160	75,565,676	78,512,840	83,846,075
Wyoming	3,778,039	3,847,825	3,725,357	3,183,165	3,808,899	3,752,318
Guam	8,413,887	8,897,530	8,898,751	8,689,935	8,337,933	8,729,571
Virgin Islands	4,567,615	4,537,107	4,576,844	4,572,097	4,761,771	4,601,257
United States	5,657,973,305	5,604,111,166	5,594,315,474	5,590,697,095	5,554,738,878	5,667,679,990
Chilca Glates	5,051,315,505	5,007,111,100	0,007,010,714	5,555,551,555	5,557,750,676	3,001,010,000

Table D.4. Stratification and weight calculation by State, October 2014

	Uned	lited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	- I	m
Alabama	0	1	95	422,625	87	1	0.0115	417,767	0	86	4,858
Alaska	0	1	45	29,975	38	1	0.0263	29,186	0	37	789
Arizona	0	1	99	454,266	83	0	0.0000	454,266	0	83	5,473
Arkansas	0	1	111	220,380	103	2	0.0194	216,101	2	99	2,183
California	0	1	82	2,070,011	64	3	0.0469	1,972,979	0	61	32,344
Colorado	0	1	93	234,743	77	1	0.0130	231,694	0	76	3,049
Connecticut	0	1	92	248,450	85	1	0.0118	245,527	0	84	2,923
Delaware	0	1	92	72,108	76	2	0.0263	70,210	1	73	962
District of Columbia	0	1	92	81,636	89	0	0.0000	81,636	0	89	917
Florida	0	1	98	2,018,928	88	0	0.0000	2,018,928	0	88	22,942
Georgia	0	1	101	868,223	88	1	0.0114	858,357	0	87	9,866
Hawaii	0	1	95	98,153	83	1	0.0120	96,970	2	80	1,212
Idaho	0	1	96	85,453	87	1	0.0115	84,471	2	84	1,006
Illinois	0	1	99	1,052,548	91	5	0.0549	994,716	0	86	11,566
Indiana	0	1	104	396.497	94	2	0.0213	388,061	0	92	4,218
Iowa	0	1	91	188,723	77	1	0.0130	186,272	0	76	2,451
Kansas	0	1	100	125,424	89	0	0.0000	125,424	0	89	1,409
Kentucky	0	1	86	386,312	84	2	0.0238	377,114	0	82	4,599
Louisiana	0	1	97	395,096	81	0	0.0000	395,096	0	81	4,878
Maine	0	1	85	113,489	76	0	0.0000	113,489	0	76	1,493
Maryland	0	1	89	406.148	76	0	0.0000	406,148	0	76	5,344
Massachusetts	0	1	91	464,798	78	0	0.0000	464,798	0	78	5,959
Michigan	0	1	89	845,599	78	0	0.0000	845,599	0	78	10,841
Minnesota	0	1	101	247,346	96	5	0.0521	234,463	0	91	2,577
Mississippi	0	1	95	302,294	85	0	0.0000	302,294	0	85	3,556
Missouri	0	1	91	392,593	74	0	0.0000	392,593	0	74	5,305
Montana	0	1	83	58,008	73	2	0.0274	56,419	0	71	795
Nebraska	0	1	95	77,051	82	1	0.0122	76,111	0	81	940
Nevada	0	1	105	202,098	95	1	0.0105	199,971	0	94	2,127
New Hampshire	0	1	74	52,251	68	2	0.0294	50,714	0	66	768
New Jersey	0	1	88	459,290	71	0	0.0000	459,290	0	71	6,469
New Mexico	0	1	98	201,229	83	4	0.0482	191,531	0	79	2,424
New York	0	1	90	1,678,096	74	0	0.0000	1,678,096	0	74	22,677
North Carolina	0	1	94	813,432	92	1	0.0109	804,590	0	91	8,842
North Dakota	0	1	41	24,660	38	0	0.0000	24,660	0	38	649

Table D.4 (continued)

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	I I	m
Ohio	0	1	99	828,300	90	5	0.0556	782,283	0	85	9,203
Oklahoma	0	1	101	272,544	98	2	0.0204	266,982	0	96	2,781
Oregon	0	1	97	446,166	78	1	0.0128	440,446	0	77	5,720
Pennsylvania	0	1	91	906,271	84	0	0.0000	906,271	0	84	10,789
Rhode Island	0	1	91	101,302	79	1	0.0127	100,020	0	78	1,282
South Carolina	0	1	97	386,311	88	0	0.0000	386,311	0	88	4,390
South Dakota	0	1	66	43,074	65	0	0.0000	43,074	0	65	663
Tennessee	0	1	96	638,397	74	0	0.0000	638,397	0	74	8,627
Texas	0	1	94	1,596,686	75	1	0.0133	1,575,397	0	74	21,289
Utah	0	1	85	89,148	82	2	0.0244	86,974	0	80	1,087
Vermont	0	1	71	45,816	60	1	0.0167	45,052	0	59	764
Virginia	0	1	92	419,316	73	0	0.0000	419,316	0	73	5,744
Washington	0	1	91	578,767	83	0	0.0000	578,767	0	83	6,973
West Virginia	0	1	93	180,853	80	0	0.0000	180,853	0	80	2,261
Wisconsin	0	1	89	420,716	78	2	0.0256	409,928	0	76	5,394
Wyoming	0	1	30	14,051	29	2	0.0690	13,082	0	27	485
Guam	0	1	43	15,482	38	0	0.0000	15,482	0	38	407
Virgin Islands	0	1	26	12,632	25	1	0.0400	12,127	0	24	505

Table D.5. Stratification and weight calculation by State, November 2014

	Unec	dited SNAP Q	C data				Edite	d SNAP QC data	a		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Alabama	0	1	95	422,887	87	1	0.0115	418,026	0	86	4,861
Alaska	0	1	52	33,396	44	0	0.0000	33,396	0	44	759
Arizona	0	1	98	450,768	89	1	0.0112	445,703	0	88	5,065
Arkansas	0	1	111	219,111	105	0	0.0000	219,111	1	104	2,107
California	0	1	83	2,056,792	67	0	0.0000	2,056,792	0	67	30,698
Colorado	0	1	94	233,172	76	1	0.0132	230,104	0	75	3,068
Connecticut	0	1	93	249,097	81	0	0.0000	249,097	1	80	3,114
Delaware	0	1	92	71,723	81	1	0.0123	70,838	0	80	885
District of Columbia	0	1	93	81,531	85	1	0.0118	80,572	1	83	971
Florida	0	1	97	2,014,801	92	0	0.0000	2,014,801	0	92	21,900
Georgia	0	1	101	858,614	83	1	0.0120	848,269	0	82	10,345
Hawaii	0	1	96	99,625	78	2	0.0256	97,071	1	75	1,294
Idaho	0	1	97	85,205	91	1	0.0110	84,269	1	89	947
Illinois	0	1	98	1,053,277	89	1	0.0112	1,041,442	0	88	11,835
Indiana	0	1	102	389,893	83	1	0.0120	385,195	1	81	4,755
lowa	0	1	92	187,882	85	0	0.0000	187,882	0	85	2,210
Kansas	0	1	98	124,811	83	1	0.0120	123,307	0	82	1,504
Kentucky	0	1	85	381,604	82	0	0.0000	381,604	0	82	4,654
Louisiana	0	1	96	391,846	78	2	0.0256	381,799	0	76	5,024
Maine	0	1	84	111,679	78	1	0.0128	110,247	0	77	1,432
Maryland	0	1	90	404,626	80	0	0.0000	404,626	0	80	5,058
Massachusetts	0	1	91	461,413	84	2	0.0238	450,427	0	82	5,493
Michigan	0	1	88	845,898	74	_ 1	0.0135	834,467	0	73	11,431
Minnesota	0	1	99	243,312	87	5	0.0575	229,329	0	82	2,797
Mississippi	0	1	95	302,270	89	1	0.0112	298,874	1	87	3,435
Missouri	0	1	92	396,898	77	1	0.0130	391,743	0	76	5,155
Montana	0	1	82	57,685	72	7	0.0972	52,077	3	62	840
Nebraska	0	1	94	76,901	76	1	0.0132	75,889	0	75	1,012
Nevada	0	1	106	202,470	94	0	0.0000	202,470	1	93	2,177
New Hampshire	0	1	74	51,839	67	3	0.0448	49,518	0	64	774
New Jersey	0	1	88	456,977	66	0	0.0000	456,977	0	66	6,924
New Mexico	0	1	98	201,340	85	2	0.0235	196,603	0	83	2,369
New York	0	1	90	1,671,667	78	4	0.0233	1,585,940	1	73	2,309
North Carolina	0	1	90	821,893	90	1	0.0313	812,761	0	73 89	9,132
North Dakota	0	1	93 41	24,517	90 37	0	0.0000	24,517	0	37	9,132

Table D.5 (continued)

	Unec	lited SNAP Q	C data				Edite	d SNAP QC data	3		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	I	m
Ohio	0	1	99	826,962	85	0	0.0000	826,962	0	85	9,729
Oklahoma	0	1	100	271,980	99	4	0.0404	260,991	0	95	2,747
Oregon	0	1	95	444,777	85	0	0.0000	444,777	0	85	5,233
Pennsylvania	0	1	91	908,019	84	0	0.0000	908,019	0	84	10,810
Rhode Island	0	1	90	100,603	84	1	0.0119	99,405	0	83	1,198
South Carolina	0	1	97	384,877	92	4	0.0435	368,143	0	88	4,183
South Dakota	0	1	66	43,026	64	1	0.0156	42,354	0	63	672
Tennessee	0	1	95	628,458	78	0	0.0000	628,458	0	78	8,057
Texas	0	1	94	1,581,394	83	0	0.0000	1,581,394	0	83	19,053
Utah	0	1	85	88,357	81	1	0.0123	87,266	0	80	1,091
Vermont	0	1	70	45,655	59	0	0.0000	45,655	1	58	787
Virginia	0	1	91	415,805	71	2	0.0282	404,092	0	69	5,856
Washington	0	1	90	576,778	79	0	0.0000	576,778	0	79	7,301
West Virginia	0	1	93	180,440	75	3	0.0400	173,222	0	72	2,406
Wisconsin	0	1	89	417,999	78	1	0.0128	412,640	0	77	5,359
Wyoming	0	1	29	13,897	27	2	0.0741	12,868	0	25	515
Guam	0	1	43	15,437	40	2	0.0500	14,665	0	38	386
Virgin Islands	0	1	26	12,600	25	0	0.0000	12,600	0	25	504

Table D.6. Stratification and weight calculation by State, December 2014

	Une	dited SNAP QC	data				Edite	d SNAP QC da	ta		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	I	m
Alabama	0	1	96	423,364	81	0	0.0000	423,364	0	81	5,227
Alaska	0	1	52	33,109	44	0	0.0000	33,109	0	44	752
Arizona	0	1	96	448,123	85	1	0.0118	442,851	0	84	5,272
Arkansas	0	1	111	218,775	102	1	0.0098	216,630	0	101	2,145
California	0	1	84	2,084,513	71	2	0.0282	2,025,794	0	69	29,359
Colorado	0	1	93	235,978	74	0	0.0000	235,978	0	74	3,189
Connecticut	0	1	91	249,590	81	2	0.0247	243,427	1	78	3,121
Delaware	0	1	92	73,178	76	0	0.0000	73,178	0	76	963
District of Columbia	0	1	93	81,308	84	1	0.0119	80,340	1	82	980
Florida	0	1	99	2,020,053	91	0	0.0000	2,020,053	0	91	22,198
Georgia	0	1	99	852,490	83	1	0.0120	842,219	1	81	10,398
Hawaii	0	1	96	99,542	72	1	0.0139	98,159	2	69	1,423
Idaho	0	1	97	85,296	94	1	0.0106	84,389	0	93	907
Illinois	0	1	100	1,073,279	87	2	0.0230	1,048,606	0	85	12,337
Indiana	0	1	101	388,679	89	4	0.0449	371,210	0	85	4,367
Iowa	0	1	92	188,554	81	1	0.0123	186,226	0	80	2,328
Kansas	0	1	99	123,737	91	0	0.0000	123,737	0	91	1,360
Kentucky	0	1	85	381,629	84	1	0.0119	377,086	0	83	4,543
Louisiana	0	1	98	390,016	81	1	0.0123	385,201	0	80	4,815
Maine	0	1	83	111,327	75	1	0.0133	109,843	0	74	1,484
Maryland	0	1	90	405,712	81	0	0.0000	405,712	1	80	5,071
Massachusetts	0	1	90	456,084	83	2	0.0241	445,094	0	81	5,495
Michigan	0	1	87	834,614	82	0	0.0000	834,614	0	82	10,178
Minnesota	0	1	99	243,355	95	2	0.0211	238,232	0	93	2,562
Mississippi	0	1	94	301,115	79	0	0.0000	301,115	0	79	3,812
Missouri	0	1	94	400,327	79	0	0.0000	400,327	0	79	5,067
Montana	0	1	82	57,968	69	2	0.0290	56,288	1	66	853
Nebraska	0	1	94	77,151	82	0	0.0000	77,151	0	82	941
Nevada	0	1	106	203,879	95	4	0.0421	195,295	0	91	2,146
New Hampshire	0	1	74	52,188	66	5	0.0758	48,234	0	61	791
New Jersey	0	1	89	457,776	65	0	0.0000	457,776	0	65	7,043
New Mexico	0	1	98	202,613	88	2	0.0227	198,008	0	86	2,302
New York	0	1	90	1,682,099	71	1	0.0141	1,658,407	0	70	23,692
North Carolina	0	1	93	808,476	86	0	0.0000	808,476	0	86	9,401
North Dakota	0	1	42	24,639	39	1	0.0256	24,007	0	38	632

Table D.6 (continued)

	Une	Unedited SNAP QC data			Edited SNAP QC data								
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight		
State	Stratum	а	b	е	g	h	i	j	k	ı	m		
Ohio	0	1	99	833,307	88	4	0.0455	795,429	0	84	9,469		
Oklahoma	0	1	100	270,929	98	3	0.0306	262,635	0	95	2,765		
Oregon	0	1	96	444,873	83	1	0.0120	439,513	0	82	5,360		
Pennsylvania	0	1	91	906,251	85	0	0.0000	906,251	0	85	10,662		
Rhode Island	0	1	90	100,979	81	1	0.0123	99,732	0	80	1,247		
South Carolina	0	1	96	384,984	94	0	0.0000	384,984	0	94	4,096		
South Dakota	0	1	66	43,331	65	0	0.0000	43,331	0	65	667		
Tennessee	0	1	95	633,237	81	3	0.0370	609,784	0	78	7,818		
Texas	0	1	92	1,569,995	70	1	0.0143	1,547,567	0	69	22,429		
Utah	0	1	85	88,390	80	1	0.0125	87,285	0	79	1,105		
Vermont	0	1	71	45,767	61	0	0.0000	45,767	0	61	750		
Virginia	0	1	91	413,867	75	0	0.0000	413,867	0	75	5,518		
Washington	0	1	90	577,737	82	0	0.0000	577,737	0	82	7,046		
West Virginia	0	1	93	181,657	80	0	0.0000	181,657	1	79	2,299		
Wisconsin	0	1	88	416,822	78	3	0.0385	400,790	0	75	5,344		
Wyoming	0	1	30	13,939	30	1	0.0333	13,474	0	29	465		
Guam	0	1	44	15,310	37	1	0.0270	14,896	0	36	414		
Virgin Islands	0	1	26	12,534	26	0	0.0000	12,534	0	26	482		

Table D.7. Stratification and weight calculation by State, January 2015

	Unedited SNAP QC data				Edited SNAP QC data								
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight		
State	Stratum	а	b	е	g	h	i	j	k	ı	m		
Alabama	0	1	94	420,116	84	0	0.0000	420,116	0	84	5,001		
Alaska	0	1	52	33,649	41	0	0.0000	33,649	0	41	821		
Arizona	0	1	96	441,771	80	0	0.0000	441,771	0	80	5,522		
Arkansas	0	1	110	217,319	101	4	0.0396	208,712	0	97	2,152		
California	0	1	85	2,084,554	68	2	0.0294	2,023,244	0	66	30,655		
Colorado	0	1	94	235,112	74	0	0.0000	235,112	0	74	3,177		
Connecticut	0	1	92	248,368	82	0	0.0000	248,368	0	82	3,029		
Delaware	0	1	92	73,393	71	1	0.0141	72,359	0	70	1,034		
District of Columbia	0	1	92	80,423	84	0	0.0000	80,423	0	84	957		
Florida	0	1	97	2,013,299	83	0	0.0000	2,013,299	0	83	24,257		
Georgia	0	1	98	838,949	86	1	0.0116	829,194	0	85	9,755		
Hawaii	0	1	94	98,385	74	1	0.0135	97,055	1	72	1,348		
Idaho	0	1	96	85,070	76	0	0.0000	85,070	0	76	1,119		
Illinois	0	1	100	1,067,345	94	1	0.0106	1,055,990	0	93	11,355		
Indiana	0	1	101	387,226	91	3	0.0330	374,460	0	88	4,255		
Iowa	0	1	92	188,407	87	0	0.0000	188,407	0	87	2,166		
Kansas	0	1	98	123,441	86	1	0.0116	122,006	0	85	1,435		
Kentucky	0	1	84	378,382	84	0	0.0000	378,382	1	83	4,559		
Louisiana	0	1	95	387,684	79	0	0.0000	387,684	1	78	4,970		
Maine	0	1	77	103,803	70	1	0.0143	102,320	1	68	1,505		
Maryland	0	1	89	403,788	78	0	0.0000	403,788	1	77	5,244		
Massachusetts	0	1	87	449,125	75	1	0.0133	443,137	0	74	5,988		
Michigan	0	1	87	832,755	70	1	0.0143	820,859	0	69	11,897		
Minnesota	0	1	99	242,257	95	2	0.0211	237,157	0	93	2,550		
Mississippi	0	1	94	298,998	87	0	0.0000	298,998	0	87	3,437		
Missouri	0	1	94	399,929	83	2	0.0241	390,292	0	81	4,818		
Montana	0	1	83	57,934	71	2	0.0282	56,302	2	67	840		
Nebraska	0	1	96	77,774	82	2	0.0244	75,877	1	79	960		
Nevada	0	1	107	205,203	95	1	0.0105	203,043	0	94	2,160		
New Hampshire	0	1	74	52,212	66	6	0.0909	47,465	2	58	818		
New Jersey	0	1	88	456,220	73	1	0.0137	449,970	1	71	6,338		
New Mexico	0	1	98	203,401	87	2	0.0230	198,725	0	85	2,338		
New York	0	1	90	1,673,567	79	0	0.0000	1,673,567	1	78	21,456		
North Carolina	0	1	93	803,243	91	2	0.0220	785,589	0	89	8,827		
North Dakota	0	1	41	24,749	38	0	0.0000	24,749	0	38	651		
Ohio	0	1	98	824,811	90	2	0.0222	806,482	0	88	9,165		

Table D.7 (continued)

	Unec	Unedited SNAP QC data			Edited SNAP QC data								
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight		
State	Stratum	а	b	е	g	h	i	j	k	I I	m		
Oklahoma	0	1	99	270,188	95	0	0.0000	270,188	0	95	2,844		
Oregon	0	1	96	444,972	82	0	0.0000	444,972	0	82	5,426		
Pennsylvania	0	1	90	911,216	81	1	0.0123	899,966	0	80	11,250		
Rhode Island	0	1	90	101,932	83	0	0.0000	101,932	0	83	1,228		
South Carolina	0	1	96	382,860	93	1	0.0108	378,743	0	92	4,117		
South Dakota	0	1	67	43,832	62	0	0.0000	43,832	0	62	707		
Tennessee	0	1	94	627,334	77	3	0.0390	602,892	2	72	8,374		
Texas	0	1	92	1,557,496	73	1	0.0137	1,536,160	0	72	21,336		
Utah	0	1	85	89,118	72	0	0.0000	89,118	0	72	1,238		
Vermont	0	1	71	45,829	64	0	0.0000	45,829	0	64	716		
Virginia	0	1	91	408,690	74	2	0.0270	397,644	0	72	5,523		
Washington	0	1	91	578,401	80	0	0.0000	578,401	0	80	7,230		
West Virginia	0	1	94	182,600	83	0	0.0000	182,600	0	83	2,200		
Wisconsin	0	1	88	416,517	76	0	0.0000	416,517	0	76	5,480		
Wyoming	0	1	29	13,900	24	1	0.0417	13,321	0	23	579		
Guam	0	1	43	15,580	40	1	0.0250	15,191	0	39	390		
Virgin Islands	0	1	26	12,569	26	0	0.0000	12,569	0	26	483		

Table D.8. Stratification and weight calculation by State, February 2015

	Uned	ited SNAP Q	C data		Edited SNAP QC data							
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight	
State	Stratum	а	b	е	g	h	i	j	k	I	m	
Alabama	0	1	94	417,564	88	0	0.0000	417,564	0	88	4,745	
Alaska	0	1	53	33,918	44	1	0.0227	33,147	0	43	771	
Arizona	0	1	94	435,782	80	1	0.0125	430,335	0	79	5,447	
Arkansas	0	1	110	217,185	105	6	0.0571	204,774	1	98	2,090	
California	0	1	85	2,082,575	61	1	0.0164	2,048,434	0	60	34,141	
Colorado	0	1	93	233,144	71	3	0.0423	223,293	0	68	3,284	
Connecticut	0	1	91	247,138	76	1	0.0132	243,886	0	75	3,252	
Delaware	0	1	92	72,242	71	3	0.0423	69,190	0	68	1,017	
District of Columbia	0	1	91	79,722	87	1	0.0115	78,806	0	86	916	
Florida	0	1	97	1,999,238	91	0	0.0000	1,999,238	0	91	21,970	
Georgia	0	1	98	832,672	92	0	0.0000	832,672	0	92	9,051	
Hawaii	0	1	94	97,854	76	1	0.0132	96,566	1	74	1,305	
Idaho	0	1	97	84,930	83	0	0.0000	84,930	0	83	1,023	
Illinois	0	1	99	1,064,507	91	0	0.0000	1,064,507	0	91	11,698	
Indiana	0	1	100	384,064	87	0	0.0000	384,064	0	87	4,415	
lowa	0	1	92	188,610	81	1	0.0123	186,281	0	80	2,329	
Kansas	0	1	97	122,854	87	0	0.0000	122,854	0	87	1,412	
Kentucky	0	1	84	373,355	81	2	0.0247	364,136	0	79	4,609	
Louisiana	0	1	95	383,191	76	0	0.0000	383,191	0	76	5,042	
Maine	0	1	77	103,315	72	1	0.0139	101,880	0	71	1,435	
Maryland	0	1	90	403,097	81	0	0.0000	403,097	0	81	4,977	
Massachusetts	0	1	88	445,626	79	1	0.0127	439,985	0	78	5,641	
Michigan	0	1	87	831,767	74	0	0.0000	831,767	0	74	11,240	
Minnesota	0	1	98	240,050	95	3	0.0316	232,469	0	92	2,527	
Mississippi	0	1	93	296,687	83	0	0.0000	296,687	0	83	3,575	
Missouri	0	1	93	397,836	80	0	0.0000	397,836	0	80	4,973	
Montana	0	1	82	57,980	68	2	0.0294	56,275	1	65	866	
Nebraska	0	1	95	77,644	85	2	0.0235	75,817	0	83	913	
Nevada	0	1	107	206,354	91	0	0.0000	206,354	0	91	2,268	
New Hampshire	0	1	73	51,876	67	2	0.0299	50,327	0	65	774	
New Jersey	0	1	87	452,574	79	0	0.0000	452,574	0	79	5,729	
New Mexico	0	1	98	204,471	85	1	0.0118	202,065	0	84	2,406	
New York	0	1	90	1,668,394	74	0	0.0000	1,668,394	0	74	22,546	
North Carolina	0	1	92	798,142	90	0	0.0000	798,142	0	90	8,868	
North Dakota	0	1	41	24,796	37	1	0.0270	24,126	0	36	670	
Ohio	0	1	97	819.840	82	1	0.0122	809.842	0	81	9,998	

Table D.8 (continued)

	Uned	Unedited SNAP QC data			Edited SNAP QC data								
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight		
State	Stratum	а	b	е	g	h	i	j	k	1	m		
Oklahoma	0	1	98	268,574	91	3	0.0330	259,720	0	88	2,951		
Oregon	0	1	95	445,307	87	0	0.0000	445,307	1	86	5,178		
Pennsylvania	0	1	91	910,386	85	0	0.0000	910,386	0	85	10,710		
Rhode Island	0	1	89	100,771	81	0	0.0000	100,771	0	81	1,244		
South Carolina	0	1	95	381,639	88	1	0.0114	377,302	0	87	4,337		
South Dakota	0	1	67	43,754	65	0	0.0000	43,754	0	65	673		
Tennessee	0	1	92	611,689	77	0	0.0000	611,689	0	77	7,944		
Texas	0	1	91	1,544,770	76	0	0.0000	1,544,770	0	76	20,326		
Utah	0	1	86	88,713	76	0	0.0000	88,713	0	76	1,167		
Vermont	0	1	70	45,490	52	0	0.0000	45,490	0	52	875		
Virginia	0	1	89	401,868	64	1	0.0156	395,589	0	63	6,279		
Washington	0	1	90	576,791	82	1	0.0122	569,757	0	81	7,034		
West Virginia	0	1	94	182,566	80	1	0.0125	180,284	0	79	2,282		
Wisconsin	0	1	89	414,215	81	1	0.0123	409,101	0	80	5,114		
Wyoming	0	1	29	13,820	27	0	0.0000	13,820	0	27	512		
Guam	0	1	44	15,718	38	1	0.0263	15,304	0	37	414		
Virgin Islands	0	1	26	12,385	23	0	0.0000	12,385	0	23	538		

Table D.9. Stratification and weight calculation by State, March 2015

	Unedited SNAP QC data				Edited SNAP QC data								
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight		
State	Stratum	а	b	е	g	h	i	j	k	l I	m		
Alabama	0	1	94	416,232	87	0	0.0000	416,232	0	87	4,784		
Alaska	0	1	53	34,132	39	0	0.0000	34,132	0	39	875		
Arizona	0	1	94	433,337	81	1	0.0123	427,987	0	80	5,350		
Arkansas	0	1	107	213,326	103	1	0.0097	211,255	3	99	2,134		
California	0	1	112	2,095,801	85	0	0.0000	2,095,801	0	85	24,656		
Colorado	0	1	93	235,495	75	1	0.0133	232,355	0	74	3,140		
Connecticut	0	1	92	248,757	82	1	0.0122	245,723	1	80	3,072		
Delaware	0	1	92	71,839	75	0	0.0000	71,839	0	75	958		
District of Columbia	0	1	90	79,617	85	0	0.0000	79,617	0	85	937		
Florida	0	1	95	1,993,985	87	0	0.0000	1,993,985	0	87	22,919		
Georgia	0	1	97	832,202	83	0	0.0000	832,202	0	83	10,027		
Hawaii	0	1	91	95,031	78	1	0.0128	93,813	1	76	1,234		
Idaho	0	1	97	84,699	90	1	0.0111	83,758	0	89	941		
Illinois	0	1	99	1,069,312	88	1	0.0114	1,057,161	0	87	12,151		
Indiana	0	1	100	383,015	88	2	0.0227	374,310	1	85	4,404		
Iowa	0	1	92	186,164	77	1	0.0130	183,746	0	76	2,418		
Kansas	0	1	97	122,355	90	1	0.0111	120,996	0	89	1,360		
Kentucky	0	1	83	372,128	80	3	0.0375	358,173	0	77	4,652		
Louisiana	0	1	94	382,789	78	0	0.0000	382,789	0	78	4,908		
Maine	0	1	99	103,933	90	2	0.0222	101,623	0	88	1,155		
Maryland	0	1	89	403,066	78	1	0.0128	397,898	0	77	5,168		
Massachusetts	0	1	85	440,372	76	2	0.0263	428,783	0	74	5,794		
Michigan	0	1	87	828,677	72	1	0.0139	817,168	0	71	11,509		
Minnesota	0	1	98	240,891	94	3	0.0319	233,203	0	91	2,563		
Mississippi	0	1	92	293,714	84	0	0.0000	293,714	0	84	3,497		
Missouri	0	1	94	400,304	76	1	0.0132	395,037	0	75	5,267		
Montana	0	1	83	57,797	70	2	0.0286	56,146	0	68	826		
Nebraska	0	1	95	77,808	78	0	0.0000	77,808	0	78	998		
Nevada	0	1	108	208,258	99	3	0.0303	201,947	0	96	2,104		
New Hampshire	0	1	74	52,115	69	0	0.0000	52,115	0	69	755		
New Jersey	0	1	86	452,882	73	0	0.0000	452,882	1	72	6,290		
New Mexico	0	1	98	204,976	81	3	0.0000	452,062 197,384	0	72 78	6,290 2,531		
New York	0	1	90 90	1,672,183	72	ა 0	0.0000	1,672,183	0	76 72	2,551		
North Carolina	0	1	90	798,643	72 89	0	0.0000	798,643	0	72 89	23,225 8,974		
North Dakota	0	1	93 42	24,886	69 40	1	0.0000	790,043 24,264	0	39	622		
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Ohio	0	1	98	824,993	86	0	0.0000	824,993	0	86	9,593		

Table D.9 (continued)

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data	1		24
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Oklahoma	0	1	98	267,286	93	1	0.0108	264,412	0	92	2,874
Oregon	0	1	95	443,741	78	1	0.0128	438,052	0	77	5,689
Pennsylvania	0	1	91	912,012	84	1	0.0119	901,155	0	83	10,857
Rhode Island	0	1	90	101,201	81	1	0.0123	99,952	0	80	1,249
South Carolina	0	1	95	381,374	87	0	0.0000	381,374	0	87	4,384
South Dakota	0	1	67	43,492	67	1	0.0149	42,843	1	65	659
Tennessee	0	1	93	614,716	79	0	0.0000	614,716	0	79	7,781
Texas	0	1	91	1,543,069	77	0	0.0000	1,543,069	0	77	20,040
Utah	0	1	86	89,443	79	1	0.0127	88,311	0	78	1,132
Vermont	0	1	70	45,251	63	0	0.0000	45,251	0	63	718
Virginia	0	1	89	401,139	70	2	0.0286	389,678	0	68	5,731
Washington	0	1	90	575,160	81	0	0.0000	575,160	0	81	7,101
West Virginia	0	1	94	185,165	89	2	0.0225	181,004	0	87	2,081
Wisconsin	0	1	88	412,483	73	0	0.0000	412,483	0	73	5,650
Wyoming	0	1	30	14,017	25	0	0.0000	14,017	1	24	584
Guam	0	1	44	15,626	38	0	0.0000	15,626	0	38	411
Virgin Islands	0	1	26	12,460	23	0	0.0000	12,460	0	23	542

Table D.10. Stratification and weight calculation by State, April 2015

	Uned	lited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	I	m
Alabama	0	1	94	415,018	84	1	0.0119	410,077	0	83	4,941
Alaska	0	1	54	35,309	42	0	0.0000	35,309	0	42	841
Arizona	0	1	94	429,250	82	1	0.0122	424,015	0	81	5,235
Arkansas	0	1	107	211,414	99	2	0.0202	207,143	0	97	2,135
California	0	1	113	2,098,966	78	0	0.0000	2,098,966	0	78	26,910
Colorado	0	1	93	233,027	81	0	0.0000	233,027	0	81	2,877
Connecticut	0	1	91	248,263	78	1	0.0128	245,080	2	75	3,268
Delaware	0	1	91	71,703	84	2	0.0238	69,996	1	81	864
District of Columbia	0	1	90	79,077	87	1	0.0115	78,168	1	85	920
Florida	0	1	97	1,986,052	87	0	0.0000	1,986,052	0	87	22,828
Georgia	0	1	98	828,070	90	1	0.0111	818,869	0	89	9,201
Hawaii	0	1	90	93,637	77	3	0.0390	89,989	0	74	1,216
Idaho	0	1	96	84,010	82	0	0.0000	84,010	0	82	1,025
Illinois	0	1	90	1,065,865	80	0	0.0000	1,065,865	0	80	13,323
Indiana	0	1	99	377,195	83	0	0.0000	377,195	0	83	4,545
Iowa	0	1	90	184,519	86	0	0.0000	184,519	0	86	2,146
Kansas	0	1	97	121,699	90	0	0.0000	121,699	0	90	1,352
Kentucky	0	1	82	366,447	80	1	0.0125	361,866	0	79	4,581
Louisiana	0	1	95	383,568	78	1	0.0128	378,650	0	77	4,918
Maine	0	1	99	103,336	90	1	0.0111	102,188	0	89	1,148
Maryland	0	1	89	402,834	77	0	0.0000	402,834	0	77	5,232
Massachusetts	0	1	84	438,953	77	1	0.0130	433,252	0	76	5,701
Michigan	0	1	93	823,255	84	0	0.0000	823,255	0	84	9,801
Minnesota	0	1	100	239,755	94	1	0.0106	237,204	0	93	2,551
Mississippi	0	1	91	292,244	80	0	0.0000	292,244	1	79	3,699
Missouri	0	1	94	398,881	72	0	0.0000	398,881	1	71	5,618
Montana	0	1	79	55,580	68	6	0.0882	50,676	3	59	859
Nebraska	0	1	95	77,449	85	1	0.0118	76,538	0	84	911
Nevada	0	1	110	210,266	99	1	0.0101	208,142	1	97	2,146
New Hampshire	0	1	74	52,037	58	0	0.0000	52,037	1	57	913
New Jersey	0	1	87	452.465	75	0	0.0000	452,465	0	75	6,033
New Mexico	0	1	98	207,918	83	1	0.0120	205,413	0	82	2,505
New York	0	1	90	1,667,152	77	2	0.0260	1,623,849	0	75	21,651
North Carolina	0	1	91	796,349	84	0	0.0000	796,349	0	84	9,480
North Dakota	0	1	42	25,003	36	2	0.0556	23,614	0	34	695
Ohio	0	1	98	815,545	82	3	0.0366	785,708	0	79	9.946

Table D.10 (continued)

	Uned	ited SNAP Q	C data				Edited	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Oklahoma	0	1	98	268,588	89	1	0.0112	265,570	0	88	3,018
Oregon	0	1	96	442,105	83	0	0.0000	442,105	0	83	5,327
Pennsylvania	0	1	91	914,195	82	0	0.0000	914,195	0	82	11,149
Rhode Island	0	1	90	100,826	85	1	0.0118	99,640	0	84	1,186
South Carolina	0	1	95	377,128	92	1	0.0109	373,029	0	91	4,099
South Dakota	0	1	67	43,411	63	0	0.0000	43,411	0	63	689
Tennessee	0	1	91	605,837	75	0	0.0000	605,837	0	75	8,078
Texas	0	1	91	1,530,217	74	0	0.0000	1,530,217	0	74	20,679
Utah	0	1	85	88,875	77	2	0.0260	86,567	0	75	1,154
Vermont	0	1	70	44,882	62	0	0.0000	44,882	1	61	736
Virginia	0	1	88	400,467	68	0	0.0000	400,467	0	68	5,889
Washington	0	1	90	572,959	84	0	0.0000	572,959	0	84	6,821
West Virginia	0	1	94	183,153	87	1	0.0115	181,048	0	86	2,105
Wisconsin	0	1	87	408,334	81	1	0.0123	403,293	0	80	5,041
Wyoming	0	1	30	13,827	29	0	0.0000	13,827	0	29	477
Guam	0	1	43	15,221	39	0	0.0000	15,221	1	38	401
Virgin Islands	0	1	26	12,408	26	0	0.0000	12,408	0	26	477

Table D.11. Stratification and weight calculation by State, May 2015

	Uned	lited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	ı	m
Alabama	0	1	93	414,375	84	0	0.0000	414,375	0	84	4,933
Alaska	0	1	56	35,638	47	0	0.0000	35,638	0	47	758
Arizona	0	1	94	430,884	77	0	0.0000	430,884	0	77	5,596
Arkansas	0	1	106	210,683	100	3	0.0300	204,363	1	96	2,129
California	0	1	113	2,103,684	90	1	0.0111	2,080,310	0	89	23,374
Colorado	0	1	93	233,312	69	1	0.0145	229,931	0	68	3,381
Connecticut	0	1	93	247,556	84	0	0.0000	247,556	2	82	3,019
Delaware	0	1	91	70,637	74	0	0.0000	70,637	0	74	955
District of Columbia	0	1	91	78,996	88	1	0.0114	78,098	0	87	898
Florida	0	1	98	2,000,595	80	0	0.0000	2,000,595	0	80	25,007
Georgia	0	1	97	831,987	86	0	0.0000	831,987	0	86	9,674
Hawaii	0	1	90	93,308	68	2	0.0294	90,564	1	65	1,393
Idaho	0	1	95	83,506	86	0	0.0000	83,506	0	86	971
Illinois	0	1	93	1,064,622	81	0	0.0000	1,064,622	0	81	13,143
Indiana	0	1	98	375,118	87	3	0.0345	362,183	0	84	4,312
Iowa	0	1	89	182,923	80	1	0.0125	180,636	0	79	2,287
Kansas	0	1	96	121,149	88	0	0.0000	121,149	0	88	1,377
Kentucky	0	1	83	365,261	78	0	0.0000	365,261	0	78	4,683
Louisiana	0	1	96	386,738	78	0	0.0000	386,738	0	78	4,958
Maine	0	1	99	103,013	96	0	0.0000	103,013	0	96	1,073
Maryland	0	1	91	406,276	72	0	0.0000	406,276	0	72	5,643
Massachusetts	0	1	87	442,697	80	1	0.0125	437,163	1	78	5,605
Michigan	0	1	93	820,586	85	0	0.0000	820,586	0	85	9,654
Minnesota	0	1	97	238,885	94	5	0.0532	226,178	0	89	2,541
Mississippi	0	1	92	292,349	83	0	0.0000	292,349	0	83	3,522
Missouri	0	1	93	398,912	80	0	0.0000	398,912	0	80	4,986
Montana	0	1	78	54,894	72	3	0.0417	52,607	1	68	774
Nebraska	0	1	95	77,616	72	1	0.0139	76,538	0	71	1,078
Nevada	0	1	111	211,663	103	1	0.0097	209,608	0	102	2,055
New Hampshire	0	1	73	51,471	64	0	0.0000	51,471	0	64	804
New Jersey	0	1	88	449,364	68	2	0.0294	436,147	0	66	6,608
New Mexico	0	1	98	206,668	84	1	0.0119	204,208	0	83	2,460
New York	0	1	90	1,660,566	78	1	0.0128	1,639,277	2	75	21,857
North Carolina	0	1	92	795,313	87	1	0.0125	786,171	0	86	9,142
North Dakota	0	1	42	24,826	38	0	0.0000	24,826	0	38	653
Ohio	0	1	97	826,054	87	0	0.0000	826,054	1	86	9.605

Table D.11 (continued)

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Oklahoma	0	1	99	269,518	89	1	0.0112	266,490	0	88	3,028
Oregon	0	1	95	445,530	77	0	0.0000	445,530	0	77	5,786
Pennsylvania	0	1	91	921,046	83	0	0.0000	921,046	0	83	11,097
Rhode Island	0	1	90	100,626	84	0	0.0000	100,626	0	84	1,198
South Carolina	0	1	94	374,405	88	0	0.0000	374,405	0	88	4,255
South Dakota	0	1	66	43,043	63	1	0.0159	42,360	0	62	683
Tennessee	0	1	125	600,945	114	1	0.0088	595,674	0	113	5,271
Texas	0	1	91	1,537,379	71	1	0.0141	1,515,726	0	70	21,653
Utah	0	1	85	88,397	80	0	0.0000	88,397	0	80	1,105
Vermont	0	1	69	44,581	59	1	0.0169	43,825	0	58	756
Virginia	0	1	87	398,732	72	2	0.0278	387,656	3	67	5,786
Washington	0	1	90	570,554	79	0	0.0000	570,554	0	79	7,222
West Virginia	0	1	94	182,415	85	0	0.0000	182,415	0	85	2,146
Wisconsin	0	1	86	404,949	82	3	0.0366	390,134	0	79	4,938
Wyoming	0	1	29	13,723	27	0	0.0000	13,723	0	27	508
Guam	0	1	44	15,586	42	0	0.0000	15,586	0	42	371
Virgin Islands	0	1	26	12,568	24	0	0.0000	12,568	0	24	524

Table D.12. Stratification and weight calculation by State, June 2015

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data			
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	I I	m
Alabama	0	1	94	415,687	83	0	0.0000	415,687	0	83	5,008
Alaska	0	1	56	35,990	43	0	0.0000	35,990	0	43	837
Arizona	0	1	94	433,907	80	0	0.0000	433,907	0	80	5,424
Arkansas	0	1	106	211,050	98	2	0.0204	206,743	0	96	2,154
California	0	1	114	2,115,586	89	0	0.0000	2,115,586	1	88	24,041
Colorado	0	1	92	232,906	74	0	0.0000	232,906	0	74	3,147
Connecticut	0	1	91	247,693	82	1	0.0122	244,672	1	80	3,058
Delaware	0	1	90	71,839	78	0	0.0000	71,839	0	78	921
District of Columbia	0	1	91	79,275	86	1	0.0116	78,353	0	85	922
Florida	0	1	99	2,011,166	83	0	0.0000	2,011,166	0	83	24,231
Georgia	0	1	97	836,195	82	0	0.0000	836,195	0	82	10,198
Hawaii	0	1	90	93,518	73	2	0.0274	90,956	1	70	1,299
Idaho	0	1	94	82,911	84	3	0.0357	79,950	0	81	987
Illinois	0	1	89	1,060,040	74	1	0.0135	1,045,715	0	73	14,325
Indiana	0	1	97	373,232	85	1	0.0118	368,841	0	84	4,391
Iowa	0	1	89	181,913	80	0	0.0000	181,913	0	80	2,274
Kansas	0	1	96	120,660	86	0	0.0000	120,660	0	86	1,403
Kentucky	0	1	93	363,535	91	1	0.0110	359,540	0	90	3,995
Louisiana	0	1	96	388,269	81	0	0.0000	388,269	0	81	4,793
Maine	0	1	98	102,544	92	2	0.0217	100,315	0	90	1,115
Maryland	0	1	90	404,041	81	1	0.0123	399,053	0	80	4,988
Massachusetts	0	1	87	445,361	74	0	0.0000	445,361	1	73	6,101
Michigan	0	1	93	815,469	72	0	0.0000	815,469	0	72	11,326
Minnesota	0	1	97	239,502	94	1	0.0106	236,954	0	93	2,548
Mississippi	0	1	92	292,430	85	3	0.0353	282,109	0	82	3,440
Missouri	0	1	94	399,196	81	0	0.0000	399,196	1	80	4,990
Montana	0	1	78	54,535	65	0	0.0000	54,535	0	65	839
Nebraska	0	1	96	77,877	85	2	0.0235	76,045	0	83	916
Nevada	0	1	112	213,891	97	3	0.0309	207,276	0	94	2,205
New Hampshire	0	1	72	51,110	64	1	0.0156	50,311	0	63	799
New Jersey	0	1	96	449,050	80	0	0.0000	449.050	0	80	5,613
New Mexico	0	1	98	207,766	84	3	0.0357	200,346	0	81	2,473
New York	0	1	90	1,661,872	69	3	0.0435	1,589,617	0	66	24,085
North Carolina	0	1	92	800,319	85	2	0.0235	781,488	0	83	9,416
North Dakota	0	1	41	24,835	38	0	0.0000	24,835	0	38	654
Ohio	0	1	97	812,063	82	0	0.0000	812,063	0	82	9.903

Table D.12 (continued)

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Oklahoma	0	1	100	271,488	89	0	0.0000	271,488	0	89	3,050
Oregon	0	1	96	439,320	80	1	0.0125	433,829	0	79	5,492
Pennsylvania	0	1	92	923,430	84	0	0.0000	923,430	0	84	10,993
Rhode Island	0	1	90	100,711	82	1	0.0122	99,483	0	81	1,228
South Carolina	0	1	94	376,259	90	1	0.0111	372,078	0	89	4,181
South Dakota	0	1	65	42,995	62	0	0.0000	42,995	0	62	693
Tennessee	0	1	124	601,447	103	0	0.0000	601,447	0	103	5,839
Texas	0	1	92	1,550,472	74	0	0.0000	1,550,472	0	74	20,952
Utah	0	1	84	87,650	78	1	0.0128	86,526	0	77	1,124
Vermont	0	1	69	44,321	58	0	0.0000	44,321	0	58	764
Virginia	0	1	88	399,105	68	1	0.0147	393,236	1	66	5,958
Washington	0	1	89	566,704	75	2	0.0267	551,592	0	73	7,556
West Virginia	0	1	94	182,427	85	3	0.0353	175,988	0	82	2,146
Wisconsin	0	1	85	400,752	74	0	0.0000	400,752	1	73	5,490
Wyoming	0	1	29	13,883	29	0	0.0000	13,883	0	29	479
Guam	0	1	44	15,665	38	0	0.0000	15,665	0	38	412
Virgin Islands	0	1	26	12,574	24	1	0.0417	12,050	0	23	524

Table D.13. Stratification and weight calculation by State, July 2015

	Uned	lited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	l l	m
Alabama	0	1	93	415,581	89	0	0.0000	415,581	0	89	4,669
Alaska	0	1	55	35,328	42	0	0.0000	35,328	0	42	841
Arizona	0	1	94	434,765	81	1	0.0123	429,398	0	80	5,367
Arkansas	0	1	106	211,026	98	4	0.0408	202,413	0	94	2,153
California	0	1	115	2,119,925	86	1	0.0116	2,095,275	0	85	24,650
Colorado	0	1	92	231,402	74	0	0.0000	231,402	0	74	3,127
Connecticut	0	1	92	247,110	83	0	0.0000	247,110	0	83	2,977
Delaware	0	1	90	71,231	68	0	0.0000	71,231	0	68	1,048
District of Columbia	0	1	91	79,760	86	0	0.0000	79,760	0	86	927
Florida	0	1	98	2,013,221	89	1	0.0112	1,990,601	0	88	22,620
Georgia	0	1	97	829,262	80	0	0.0000	829,262	0	80	10,366
Hawaii	0	1	89	92,958	78	4	0.0513	88,191	0	74	1,192
Idaho	0	1	92	82,211	75	2	0.0267	80,019	0	73	1,096
Illinois	0	1	91	1,055,063	85	1	0.0118	1,042,650	0	84	12,413
Indiana	0	1	97	371,396	84	2	0.0238	362,553	0	82	4,421
lowa	0	1	88	180,612	82	0	0.0000	180,612	0	82	2,203
Kansas	0	1	95	119,139	87	0	0.0000	119,139	0	87	1,369
Kentucky	0	1	93	356,407	90	1	0.0111	352,447	0	89	3,960
Louisiana	0	1	96	392,306	84	0	0.0000	392,306	0	84	4,670
Maine	0	1	98	102,491	95	0	0.0000	102,491	0	95	1,079
Maryland	0	1	89	404,632	75	3	0.0400	388,447	0	72	5,395
Massachusetts	0	1	88	447,926	82	0	0.0000	447,926	0	82	5,463
Michigan	0	1	92	811,481	83	0	0.0000	811,481	0	83	9,777
Minnesota	0	1	97	237,995	97	2	0.0206	233,088	1	94	2,480
Mississippi	0	1	92	292,718	82	1	0.0122	289,148	0	81	3,570
Missouri	0	1	93	399,948	79	0	0.0000	399,948	0	79	5,063
Montana	0	1	77	54,039	62	1	0.0161	53,167	0	61	872
Nebraska	0	1	95	78,264	81	0	0.0000	78,264	0	81	966
Nevada	0	1	113	215,896	97	3	0.0309	209,219	0	94	2,226
New Hampshire	0	1	72	50,719	64	3	0.0469	48,342	2	59	819
New Jersey	0	1	96	450,352	78	0	0.0000	450,352	0	78	5,774
New Mexico	0	1	98	207,928	81	2	0.0000	202,794	0	79	2,567
New York	0	1	90	1,656,532	75	3	0.0400	1,590,271	0	79 72	22,087
North Carolina	0	1	92	801,287	73 89	2	0.0225	783,281	0	87	9,003
North Dakota	0	1	92 42	24,804	36	0	0.0000	24,804	0	36	689
Ohio	0	1	97	807,362	82	0	0.0000	807,362	0	82	9.846

Table D.13 (continued)

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Oklahoma	0	1	100	272,629	92	2	0.0217	266,702	0	90	2,963
Oregon	0	1	97	437,972	75	2	0.0267	426,293	0	73	5,840
Pennsylvania	0	1	92	930,751	84	0	0.0000	930,751	0	84	11,080
Rhode Island	0	1	91	100,636	86	2	0.0233	98,296	0	84	1,170
South Carolina	0	1	94	376,315	89	1	0.0112	372,087	0	88	4,228
South Dakota	0	1	66	42,779	63	0	0.0000	42,779	1	62	690
Tennessee	0	1	124	598,860	109	2	0.0183	587,872	0	107	5,494
Texas	0	1	92	1,558,674	74	1	0.0135	1,537,611	0	73	21,063
Utah	0	1	84	86,896	79	0	0.0000	86,896	0	79	1,100
Vermont	0	1	68	43,973	63	0	0.0000	43,973	0	63	698
Virginia	0	1	87	398,166	69	1	0.0145	392,395	0	68	5,771
Washington	0	1	88	565,973	73	2	0.0274	550,467	0	71	7,753
West Virginia	0	1	93	182,727	86	0	0.0000	182,727	0	86	2,125
Wisconsin	0	1	84	394,153	73	0	0.0000	394,153	0	73	5,399
Wyoming	0	1	31	14,352	30	1	0.0333	13,874	0	29	478
Guam	0	1	43	15,684	42	0	0.0000	15,684	0	42	373
Virgin Islands	0	1	27	12,713	27	1	0.0370	12,242	0	26	471

Table D.14. Stratification and weight calculation by State, August 2015

	Uned	lited SNAP Q	C data				Edite	d SNAP QC data	1		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Alabama	0	1	93	415,843	83	1	0.0120	410,833	0	82	5,010
Alaska	0	1	54	35,049	48	0	0.0000	35,049	0	48	730
Arizona	0	1	95	438,572	79	0	0.0000	438,572	0	79	5,552
Arkansas	0	1	106	209,373	97	2	0.0206	205,056	1	94	2,181
California	0	1	114	2,123,659	81	0	0.0000	2,123,659	1	80	26,546
Colorado	0	1	92	230,279	67	0	0.0000	230,279	0	67	3,437
Connecticut	0	1	92	247,960	78	0	0.0000	247,960	0	78	3,179
Delaware	0	1	90	70,563	77	2	0.0260	68,730	0	75	916
District of Columbia	0	1	91	79,336	89	0	0.0000	79,336	0	89	891
Florida	0	1	97	2,014,845	82	0	0.0000	2,014,845	0	82	24,571
Georgia	0	1	98	831,315	83	0	0.0000	831,315	0	83	10,016
Hawaii	0	1	89	92,501	69	0	0.0000	92,501	0	69	1,341
Idaho	0	1	94	81,733	82	1	0.0122	80,736	0	81	997
Illinois	0	1	91	1,050,530	83	1	0.0120	1,037,873	0	82	12,657
Indiana	0	1	96	368,148	76	1	0.0132	363,304	0	75	4,844
Iowa	0	1	88	180,177	82	3	0.0366	173,585	0	79	2,197
Kansas	0	1	95	119,886	90	0	0.0000	119,886	0	90	1,332
Kentucky	0	1	91	352,367	89	3	0.0337	340,489	0	86	3,959
Louisiana	0	1	98	395,122	77	0	0.0000	395,122	0	77	5,131
Maine	0	1	97	101,644	83	0	0.0000	101,644	0	83	1,225
Maryland	0	1	91	406,245	76	0	0.0000	406,245	0	76	5,345
Massachusetts	0	1	88	450,079	78	1	0.0128	444,309	0	77	5,770
Michigan	0	1	91	807,555	82	0	0.0000	807,555	0	82	9,848
Minnesota	0	1	97	235,990	95	3	0.0316	228,538	0	92	2,484
Mississippi	0	1	92	293,913	78	0	0.0000	293,913	0	78	3,768
Missouri	0	1	94	399,843	70	1	0.0143	394,131	0	69	5,712
Montana	0	1	76	53,630	64	0	0.0000	53,630	0	64	838
Nebraska	0	1	97	78,781	80	1	0.0125	77,796	0	79	985
Nevada	0	1	113	218,067	94	0	0.0000	218,067	0	94	2,320
New Hampshire	0	1	71	50,137	62	1	0.0161	49,328	1	60	822
New Jersey	0	1	97	453,611	75	0	0.0000	453,611	0	75	6,048
New Mexico	0	1	98	209,098	82	2	0.0244	203,998	0	80	2,550
New York	0	1	90	1,647,478	79	0	0.0000	1,647,478	1	78	21,122
North Carolina	0	1	92	803,068	89	4	0.0449	766,975	0	85	9,023
North Dakota	0	1	41	24,725	38	0	0.0000	24,725	0	38	651
Ohio	0	1	96	804,027	80	3	0.0375	773,876	0	77	10,050

Table D.14 (continued)

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data	<u> </u>		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	ı	m
Oklahoma	0	1	100	274,010	88	1	0.0114	270,896	0	87	3,114
Oregon	0	1	97	436,358	78	0	0.0000	436,358	0	78	5,594
Pennsylvania	0	1	92	938,705	82	0	0.0000	938,705	0	82	11,448
Rhode Island	0	1	91	100,921	84	0	0.0000	100,921	0	84	1,201
South Carolina	0	1	95	377,132	90	0	0.0000	377,132	0	90	4,190
South Dakota	0	1	65	42,756	62	0	0.0000	42,756	0	62	690
Tennessee	0	1	126	592,010	107	1	0.0093	586,477	0	106	5,533
Texas	0	1	93	1,561,516	70	0	0.0000	1,561,516	0	70	22,307
Utah	0	1	83	86,535	79	1	0.0127	85,440	0	78	1,095
Vermont	0	1	69	43,969	58	0	0.0000	43,969	0	58	758
Virginia	0	1	87	397,992	72	5	0.0694	370,354	0	67	5,528
Washington	0	1	88	564,743	76	1	0.0132	557,312	0	75	7,431
West Virginia	0	1	94	179,914	83	1	0.0120	177,746	0	82	2,168
Wisconsin	0	1	84	390,485	74	1	0.0135	385,208	0	73	5,277
Wyoming	0	1	28	13,449	25	1	0.0400	12,911	0	24	538
Guam	0	1	44	15,779	41	0	0.0000	15,779	0	41	385
Virgin Islands	0	1	27	12,850	26	0	0.0000	12,850	0	26	494

Table D.15. Stratification and weight calculation by State, September 2015

	Uned	lited SNAP Q	C data				Edite	d SNAP QC data	a		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	l l	m
Alabama	0	1	94	416,029	90	0	0.0000	416,029	0	90	4,623
Alaska	0	1	54	34,755	46	0	0.0000	34,755	0	46	756
Arizona	0	1	96	440,531	73	1	0.0137	434,496	0	72	6,035
Arkansas	0	1	106	209,027	102	1	0.0098	206,978	1	100	2,070
California	0	1	116	2,126,397	99	1	0.0101	2,104,918	0	98	21,479
Colorado	0	1	92	228,791	72	3	0.0417	219,258	0	69	3,178
Connecticut	0	1	91	248,460	70	2	0.0286	241,361	1	67	3,602
Delaware	0	1	90	71,393	68	1	0.0147	70,343	0	67	1,050
District of Columbia	0	1	92	79,397	89	1	0.0112	78,505	0	88	892
Florida	0	1	99	2,028,944	89	0	0.0000	2,028,944	0	89	22,797
Georgia	0	1	97	830,501	78	1	0.0128	819,854	0	77	10,647
Hawaii	0	1	87	92,025	73	0	0.0000	92,025	0	73	1,261
Idaho	0	1	92	81,400	76	1	0.0132	80,329	2	73	1,100
Illinois	0	1	89	1,050,682	78	0	0.0000	1,050,682	0	78	13,470
Indiana	0	1	95	364,690	80	2	0.0250	355,573	1	77	4,618
Iowa	0	1	88	179,712	74	1	0.0135	177,283	0	73	2,429
Kansas	0	1	95	118,739	88	1	0.0114	117,390	1	86	1,365
Kentucky	0	1	89	345,730	85	2	0.0235	337,595	0	83	4,067
Louisiana	0	1	98	397,606	79	1	0.0127	392,573	0	78	5,033
Maine	0	1	97	100,330	94	0	0.0000	100,330	0	94	1,067
Maryland	0	1	90	406,025	72	1	0.0139	400,386	0	71	5,639
Massachusetts	0	1	88	451,178	80	4	0.0500	428,619	0	76	5,640
Michigan	0	1	91	802,001	80	0	0.0000	802,001	0	80	10,025
Minnesota	0	1	96	235,582	93	2	0.0215	230,516	0	91	2,533
Mississippi	0	1	93	294,400	86	0	0.0000	294,400	0	86	3,423
Missouri	0	1	94	399,280	73	0	0.0000	399,280	0	73	5,470
Montana	0	1	76	53,288	56	0	0.0000	53,288	0	56	952
Nebraska	0	1	97	78,742	84	0	0.0000	78,742	0	84	937
Nevada	0	1	115	219,394	98	1	0.0102	217,155	0	97	2,239
New Hampshire	0	1	70	49,784	66	0	0.0000	49,784	0	66	754
New Jersey	0	1	97	449,490	77	0	0.0000	449,490	0	77	5,838
New Mexico	0	1	98	209,073	83	4	0.0482	198,997	0	79	2,519
New York	0	1	90	1,648,584	76	1	0.0132	1,626,892	0	75	21,692
North Carolina	0	1	93	801,772	89	1	0.0112	792,763	0	88	9,009
North Dakota	0	1	42	24,807	35	0	0.0000	24,807	0	35	709
Ohio	0	1	96	801,187	80	1	0.0125	791,172	0	79	10,015

Table D.15 (continued)

	Uned	ited SNAP Q	C data				Edite	d SNAP QC data	ā		
		Sampling interval	Stratum sampling size	SNAP units in State (program ops data)	Units with complete reviews	Ineligible units	Disqualification rate	Adjusted SNAP units in State	Failing units	Stratum sampling size	Stratum- specific units weight
State	Stratum	а	b	е	g	h	i	j	k	1	m
Oklahoma	0	1	101	275,044	94	3	0.0319	266,266	0	91	2,926
Oregon	0	1	94	433,956	72	0	0.0000	433,956	0	72	6,027
Pennsylvania	0	1	93	942,847	81	0	0.0000	942,847	0	81	11,640
Rhode Island	0	1	91	100,884	85	1	0.0118	99,697	0	84	1,187
South Carolina	0	1	95	376,617	84	1	0.0119	372,133	0	83	4,484
South Dakota	0	1	66	42,621	63	1	0.0159	41,944	0	62	677
Tennessee	0	1	124	588,732	110	1	0.0091	583,380	0	109	5,352
Texas	0	1	93	1,571,497	73	0	0.0000	1,571,497	0	73	21,527
Utah	0	1	83	86,403	81	1	0.0123	85,336	0	80	1,067
Vermont	0	1	68	43,870	55	1	0.0182	43,072	0	54	798
Virginia	0	1	88	397,024	74	4	0.0541	375,563	0	70	5,365
Washington	0	1	88	562,566	70	1	0.0143	554,529	0	69	8,037
West Virginia	0	1	94	179,616	80	0	0.0000	179,616	0	80	2,245
Wisconsin	0	1	82	383,619	74	0	0.0000	383,619	0	74	5,184
Wyoming	0	1	29	13,549	26	0	0.0000	13,549	0	26	521
Guam	0	1	44	15,581	41	0	0.0000	15,581	0	41	380
Virgin Islands	0	1	27	13,022	27	0	0.0000	13,022	0	27	482



APPENDIX E STATE AND REGION CODES



Table E.1. State FIPS codes (STATE)

	,		
Alabama	01	Montana	30
Alaska	02	Nebraska	31
Arizona	04	Nevada	32
Arkansas	05	New Hampshire	33
California	06	New Jersey	34
Colorado	08	New Mexico	35
Connecticut	09	New York	36
Delaware	10	North Carolina	37
District of Columbia	11	North Dakota	38
Florida	12	Ohio	39
Georgia	13	Oklahoma	40
Guam	66	Oregon	41
Hawaii	15	Pennsylvania	42
Idaho	16	Rhode Island	44
Illinois	17	South Carolina	45
Indiana	18	South Dakota	46
Iowa	19	Tennessee	47
Kansas	20	Texas	48
Kentucky	21	Utah	49
Louisiana	22	Vermont	50
Maine	23	Virgin Islands	78
Maryland	24	Virginia	51
Massachusetts	25	Washington	53
Michigan	26	West Virginia	54
Minnesota	27	Wisconsin	55
Mississippi	28	Wyoming	56
Missouri	29		

Table E.2. SNAP region codes (REGIONCD)

REGIONCD = 1 (Northeast) REGIONCD = 5 (Southwest)

Connecticut Arkansas
Maine Louisiana
Massachusetts New Mexico
New Hampshire Oklahoma
New York Texas

Rhode Island REGIONCD = 6 (Mountain Plains)

South Dakota

Vermont Colorado

REGIONCD = 2 (Mid-Atlantic) lowa

Delaware Kansas
District of Columbia Missouri
Maryland Montana
New Jersey Nebraska
Pennsylvania North Dakota

Virginia Utah West Virginia Wyoming

REGIONCD = 3 (Southeast) REGIONCD = 7 (West)

Alabama Alaska Florida Arizona Georgia California Kentucky Guam Mississippi Hawaii North Carolina Idaho South Carolina Nevada Tennessee Oregon

REGIONCD = 4 (Midwest) Washington

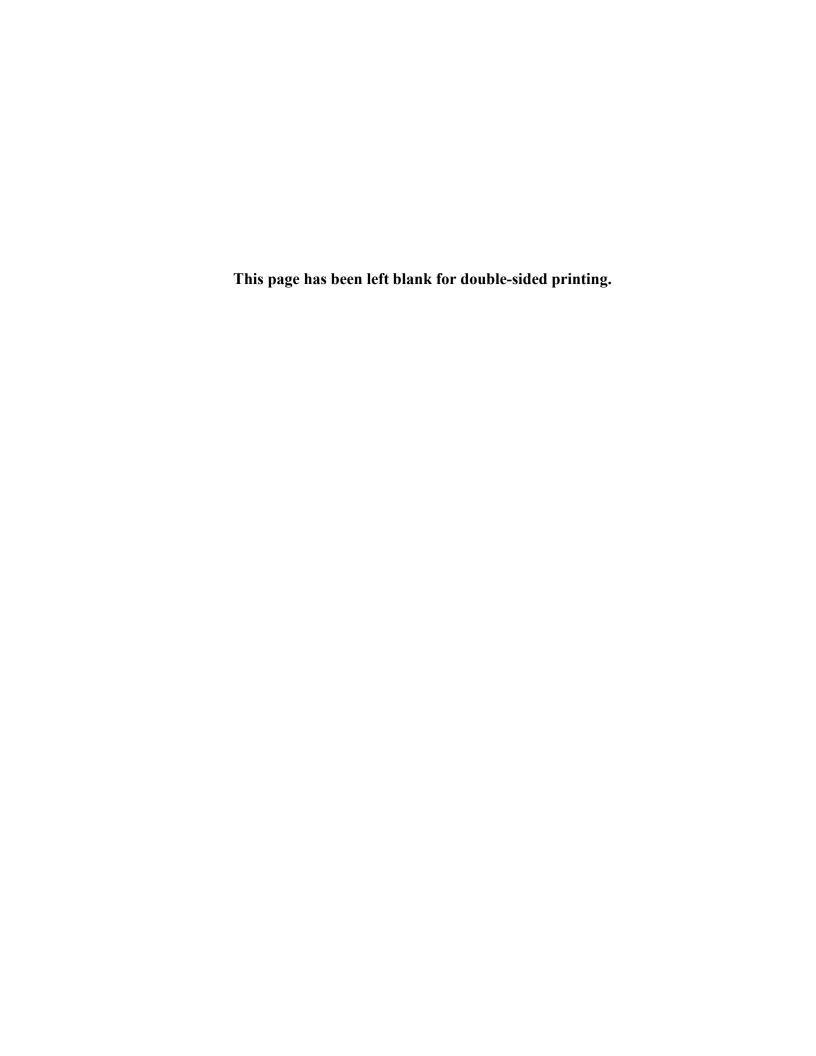
Illinois Indiana Michigan Minnesota Ohio Wisconsin

Virgin Islands

Table E.3. Census region codes (REGION)

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

Source: U.S. Census Bureau.



APPENDIX F FY 2015 SNAP PARAMETERS



Table F.1. SNAP gross income screen, FY 2015

	Gross income screen (dollars per month)							
Unit size	Contiguous United States, Guam, and the Virgin Islands	Alaska	Hawaii					
1	\$1,265	\$1,580	\$1,454					
2	1,705	2,130	1,960					
3	2,144	2,681	2,466					
4	2,584	3,231	2,972					
5	3,024	3,781	3,478					
6	3,464	4,332	3,984					
7	3,904	4,882	4,490					
8	4,344	5,432	4,996					
Each additional	+440	+551	+506					

Note: The FY 2015 SNAP gross monthly income limits were based on the 2014 poverty guidelines issued by the

U.S. Department of Health and Human Services. FNS derived the FY 2015 gross income limits by multiplying the 2014 poverty guidelines by 130 percent, dividing the results by 12, and then rounding up to

the nearest dollar.

Table F.2. SNAP net income screen, FY 2015

	Net income screen (dollars per month)							
Unit size	Contiguous United States, Guam, and the Virgin Islands	Alaska	Hawaii					
1	\$ 973	\$1,215	\$1,119					
2	1,311	1,639	1,508					
3	1,650	2,062	1,897					
4	1,988	2,485	2,286					
5	2,326	2,909	2,675					
6	2,665	3,332	3,065					
7	3,003	3,755	3,454					
8	3,341	4,179	3,843					
Each additional	+339	+424	+390					

Source: U.S. Department of Agriculture, FNS.

Note: The FY 2015 SNAP net monthly income limits were based on the 2014 poverty guidelines issued by the U.S. Department of Health and Human Services. FNS derived the FY 2015 net income limits by dividing the 2014 poverty guidelines by 12 and rounding up to the nearest dollar.

Table F.3. Deduction amounts, FY 2015

Deduction	Contiguous United States	Alaska	Hawaii	Guam	Virgin Islands
Standard deduction					
1 to 2 people	\$155	\$266	\$219	\$312	\$137
3 people	155	266	219	312	137
4 people	165	266	219	330	165
5 people	193	266	222	387	193
6 or more people	221	277	255	443	221
Maximum excess shelter expense deduction	490	782	660	575	386
Homeless household shelter deduction	143	143	143	143	143
Earnings deduction	20%	20%	20%	20%	20%

Note:

MFIP has a separate SNAP benefit calculation procedure that does not include any deductions except for the earnings deduction, which was 50 percent. As a result, all the other deductions are coded as missing for MFIP participants in the SNAP QC database. Similarly, deductions are not used to assign benefits to units participating in SSI-CAP in States with standardized benefit amounts. Consequently, all deductions are coded as missing for SSI-CAP participants in these States. SSI-CAP States without standardized benefits (or standard shelter expenses) use some deductions, but not all. The deductions that are not applicable are coded as missing.

Table F.4. Medical deduction demonstration, FY 2015

State	If medical expenses are less than or equal to	Then medical deduction is	Otherwise, medical deduction is
Alabama ^a	\$200	\$165	Actual expenses minus \$35
Arkansas	138	103	Actual expenses minus \$35
Idaho	179	144	Actual expenses minus \$35
Illinois	245	210	Actual expenses minus \$35
Iowa	140	105	Actual expenses minus \$35
Kansas	175	140	Actual expenses minus \$35
Massachusetts	190	155	Actual expenses minus \$35
Missouri	200	165	Actual expenses minus \$35
New Hampshire	118	83	Actual expenses minus \$35
North Dakota	200	165	Actual expenses minus \$35
Rhode Island	176	141	Actual expenses minus \$35
South Dakota	200	165	Actual expenses minus \$35
Texas	137	102	Actual expenses minus \$35
Vermont	173	138	Actual expenses minus \$35
Virginia	175	140	Actual expenses minus \$35
Wyoming	138	103	Actual expenses minus \$35

^a Alabama implemented its program in October 2014.

Table F.5. Maximum monthly SNAP benefit, FY 2015

	Maximum SNAP benefit									
Unit size	Contiguous United States	Alaska Urban	Alaska Rural I	Alaska Rural II	Hawaii	Guam	Virgin Islands			
1	\$194	\$227	\$290	\$353	\$332	\$287	\$250			
2	357	417	532	648	609	526	459			
3	511	598	762	928	872	753	657			
4	649	759	968	1,178	1,107	957	835			
5	771	902	1,150	1,399	1,315	1,136	991			
6	925	1,082	1,380	1,679	1,578	1,364	1,189			
7	1,022	1,196	1,525	1,856	1,744	1,507	1,315			
8	1,169	1,367	1,743	2,121	1,994	1,723	1,503			
Each additional	+ 146	+ 171	+ 218	+ 265	+ 249	+ 215	+ 188			

Note: These maximum benefit values were based on 100 percent of the cost of the Thrifty Food Plan in June

2014 for a reference family of four, rounded to the lowest dollar increment.

Table F.6. Minimum monthly SNAP benefit, FY 2015

	Minimum SNAP benefit								
Unit size	Contiguous United States	Alaska Urban	Alaska Rural I	Alaska Rural II	Hawaii	Guam	Virgin Islands		
1 to 2 people	\$16	\$18	\$23	\$28	\$27	\$23	\$20		

Source: U.S. Department of Agriculture, FNS.

Note: The minimum benefit, applicable to one- and two-person units, is equal to 8 percent of the maximum benefit

for single-person units.

Table F.7. Standard utility allowances, FY 2015

State	HCSUAª	LUA ^b	Telephone allowance	Electricityd	Waterd	Sewerd	Trashd	Other standards ^e
Alabama	\$355	\$311	\$35					
Alaska ^f	φοσσ	ψΟΤΙ	ΨΟΟ					
Central	322		23	\$82	\$48	\$41	\$23	\$105
Southeast	451		26	75	33	61	28	228
South central	484		25	118	31	46	49	215
Northern	743		23	131	45	63	27	454
Southwest	987		33	165	58	49	14	668
Northwest	1,078		31	139	61	45	29	773
Arizona	1,070		31	100	01	40	23	773
1 to 3 people	271		32					
4 or more people	366		32					
Arkansas	277		25					
California	373	113	20					
Colorado	462	291	74	55	55	55	55	55
Connecticut	724	318	27	33	55	33	33	33
Delaware	433	299	35	79	79	79	79	79
District of Columbia	319	251	55 55	65	65	65	65	65
Florida	337	270	36	00	00	00	03	00
Georgia	343	285	38					
Hawaii	343	200	30					
1 person			26	221	43	79	79	221
2 people			26	241	48	79 79	79	241
3 people			26	278	53	79 79	79	278
4 to 5 people			26	346	63	79 79	79 79	346
6 people			26	408	72	79 79	79 79	408
7 or more people			26	462	86	79 79	79 79	462
Idaho	388	234	41	402 97	97	97	97	402 97
		280		62	62	62	62	62
Illinois Indiana	370	200	32	02	02	62	62	02
10/2014-4/2015	405	223	24	50	50	50	50	50
5/2015-9/2015	415	232	32	50	50	50	50	50
lowa	326	229	26	00	00	00	00	00
Kansas	369	238	36					
Kentucky	299	252	34					
Louisiana	323	178	42					
Maine	687	228	45					
Maryland	001	220	10					
10/2014-12/2014	406	246	40					
1/2015-9/2015	402	245	40					
Massachusetts	634	390	45					

See notes at the end of the table.

Table F.7 (continued)

State	HCSUA ^a	LUAb	Telephone allowance	Electricityd	Waterd	Sewerd	Trash ^d	Other standards ^e
Michigan	553		34	124	77	77	21	47
Minnesota	450		38	150				
Mississippi	269	197	28					
Missouri	318	249	29	88	88	88	88	88
Montana	498	180	37	143	143	143	143	143
Nebraska	447	203	52	38	38	38	38	38
Nevada	295	252	23	57	57	57	57	57
New Hampshire	578	261	28	152				
New Jersey	491	283	29					
New Mexico	319	116	39					
New York								
New York City	785	311	33					
Long Island	732	287	33					
Rest of New York	650	263	33					
North Carolina								
1 person	360	217	29					
2 people	396	238	29					
3 people	435	261	29					
4 people	474	284	29					
5 or more people	517	310	29					
North Dakota	635	219	36	182	182	182	182	182
Ohio	498	330	39	73	73	73	73	73
Oklahoma	345	297	48					
Oregon	446	328	57	55	55	55	55	55
Pennsylvania	557	289	33	55	55	55	55	55
Rhode Island	627		23					
South Carolina	288	210	28					
South Dakota								
10/2014-1/2015	683	195	46	80	80	80	80	80
2/2015-9/2015	698	195	46	80	80	80	80	80
Tennessee								
1 person	335	133	25					
2 people	347	133	25					
3 people	360	133	25					
4 people	373	133	25					
5 people	384	133	25					
6 people	397	133	25					
7 people	408	133	25					
8 people	421	133	25					
9 people	436	133	25					
10 or more people	447	133	25					

See notes at the end of the table.

Table F.7 (continued)

State	HCSUA ^a	LUAb	Telephone allowance	Electricity ^d	Water ^d	Sewerd	Trash ^d	Other standards ^e
Texas	343	326	36					
Utah	311	230	45					
Vermont	805	230	36					
Virginia								
1 to 3 people	298		47					
4 or more people	375		47					
Washington	415	336	65					
West Virginia	345	210	57	57	57	57	57	57
Wisconsin	446	321	30	161	74	74	19	125 ⁹ 37
Wyoming	371	250	59					
Guam								
1 person			24	132	31	27	30	31
2 to 3 people			24	154	39	27	30	31
4 people			24	187	52	27	30	62
5 people			24	214	63	27	30	62
6 people			24	247	81	27	30	62
7 people			24	282	99	27	30	94
8 people			24	296	109	27	30	94
9 to 10 people			24	317	124	27	30	94
11 to 16 people			24	325	129	27	30	94
Virgin Islands			31					

^a HCSUA is a standard utility allowance used for units with heating and cooling expenses not included in rent. The HCSUA generally includes all utilities, including telephones.

^b LUA is a standard utility allowance used for units that do not have heating and cooling expenses separate from rent. The LUA generally includes all utilities, including telephones.

^c The telephone allowance is a standard utility allowance used for units that have telephone expenses but do not have any other utility expenses.

d Single-utility standard.

^e A single utility is standard for gas/fuel unless otherwise noted.

^fAlaska has six HCSUAs determined by utility regions.

⁹ Wisconsin has a single utility standard for space heating, space cooling, and hot water, in addition to a standard for gas/fuel.

Table F.8. Minnesota Family Investment Program (MFIP) benefits, FY 2015

Unit size	Family wage level (1.1 * transitional standard)	Transitional standard (cash portion + food portion)	Cash portion	Food portion
1	\$464	\$422	\$250	\$172
2	829	754	437	317
3	1,090	991	532	459
4	1,328	1,207	621	586
5	1,530	1,391	697	694
6	1,755	1,595	773	822
7	1,913	1,739	850	889
8	2,114	1,922	916	1,006
9	2,314	2,104	980	1,124
10	2,507	2,279	1,035	1,244
Each additional	+191	+174	+53	+121

Source: http://www.dhs.State.mn.us/

Table F.9. AZ SSI-CAP (AZSNAP) benefit criteria, FY 2015

Shelter expenses	Benefit
\$0 to 99	\$36
\$100 to 199	73
\$200 to 299	101
\$300 or more	141

Source: U.S. Department of Agriculture, FNS.

Table F.10. KY SSI-CAP (KYSAFE) benefit criteria, FY 2015

Unit size	Shelter expenses	Benefit
October 2014 – June 2015		
One person	Less than \$200	\$43
	\$200 or more	\$0
Two people	Less than \$108	77
	\$108 or more	123
July 2015 – September 2015		
One person	Less than \$200	30
	\$200 or more	75
Two people	Less than \$108	77
	\$108 or more	123

Table F.11. LA SSI-CAP (LaCAP) benefit criteria, FY 2015

Shelter expenses	Benefit
October 2014 – April 2015	
\$0 to 100	\$34
\$101 to 399	57
\$400 to 699	90
\$700 or more	112
May 2015 – September 2015	
\$0 to 100	34
\$101 to 399	54
\$400 to 699	85
\$700 or more	110

Table F.12. MD SSI-CAP (MSNAP) benefit criteria, FY 2015

Shelter expenses	Benefit
Less than \$506	\$65
\$506 or more	110

Source: U.S. Department of Agriculture, FNS.

Table F.13. MI SSI-CAP (MiCAP) benefit criteria, FY 2015

Shelter expenses	Benefit	Gross income ^a
October 2014 – December 2014		
Less than \$1,000	\$171	\$735
\$1,000 or more	185	735
January 2015 – September 2015		
Less than \$1,000	171	747
\$1,000 or more	185	747

^a In FY 2015, Michigan had an SSI supplement of \$14.

Table F.14. MS SSI-CAP (MSCAP) benefits by income and shelter expense patterns, FY 2015

Income type and shelter expenses	Benefit level	Gross income
October 2014 – December 2014		
SSI only		
Low shelter expenses (reported as \$335)	\$39	\$721
High shelter expenses (reported as \$392)	56	721
SSI and other unearned income		
Low shelter expenses (reported as \$335)	30	741
High shelter expenses (reported as \$392)	47	741
January 2015 - September 2015		
SSI only		
Low shelter expenses (reported as \$335)	34	733
High shelter expenses (reported as \$392)	51	733
SSI and other unearned income		
Low shelter expenses (reported as \$335)	25	753
High shelter expenses (reported as \$392)	42	753

Note: When necessary, the data for units identified as MSCAP participants have been edited to follow the pattern

presented in this table.

Table F.15. NJ SSI-CAP (NJ SNAS) benefit criteria, FY 2015

Shelter expenses	Benefit
Less than \$315	\$50
\$315 or more	85

Source: U.S. Department of Agriculture, FNS.

Table F.16. NM SSI-CAP (NMCAP) benefit criteria, FY 2015

Shelter expenses	Benefit
Less than \$315	\$33
\$315 or more	68

Source: U.S. Department of Agriculture, FNS.

Note: NMCAP ended in March 2014. Participants may remain on the program through their current certification

period. The last NMCAP benefits will be issued in February 2017.

Table F.17. NY SSI-CAP (NYSNIP) benefit criteria, FY 2015

	М	onthly benefit amou	nt
Income and shelter expenses	New York	Long Island	Rest of State
October 2014 – December 2014			
Gross income minus SSI < \$87 With positive utility costs			
Rent \$242 or less	\$194	\$192	\$167
Rent more than \$242	194	194	194
With no utility costs			
Rent \$242 or less	16	16	16
Rent more than \$242	31	31	31
With no shelter costs	16	16	16
Gross income minus SSI >= \$87 With positive utility costs			
Rent \$242 or less	194	183	158
Rent more than \$242	194	194	194
With no utility costs			
Rent \$242 or less	16	16	16
Rent more than \$242	22	22	22
With no shelter costs	16	16	16
January 2015 – September 2015			
Gross income minus SSI < \$87			
With positive utility costs			
Rent \$246 or less	194	188	163
Rent more than \$246	194	194	194
With no utility costs			
Rent \$246 or less	16	16	16
Rent more than \$246	26	26	26
With no shelter costs	16	16	16
Gross income minus SSI >= \$87			
With positive utility costs	404	470	454
Rent \$246 or less Rent more than \$246	194 194	179 194	154 194
	134	134	134
With no utility costs Rent \$246 or less	16	16	16
Rent more than \$246	17	17	17
With no shelter costs	16	16	16
AAITH HO SHEITEL COSTS	10	10	10

Table F.18. NC SSI-CAP (NCSNAP) benefit criteria, FY 2015

Shelter expenses	Benefit
Less than \$150	\$58
\$150 or more	114

Table F.19. PA SSI-CAP (PACAP) benefit criteria, FY 2015

Income type and shelter expenses	Benefit
October 2014 – December 2014	
SSI only	
Shelter expenses less than \$196	\$82
Shelter expenses \$196 or more	153
SSI and other unearned income	
Shelter expenses less than \$196	73
Shelter expenses \$196 or more	144
January 2015 – September 2015	
SSI only	
Shelter expenses less than \$196	77
Shelter expenses \$196 or more	148
SSI and other unearned income	
Shelter expenses less than \$196	68
Shelter expenses \$196 or more	139

Table F.20. SC SSI-CAP (SCCAP) benefits by income and shelter expense patterns, FY 2015

Income type and shelter expenses	Benefits	Gross income				
October 2014 – December 2014						
SSI only						
Shelter expenses less than \$286 (reported as \$285)	\$24	\$721				
Shelter expenses \$286 or more (reported as \$442)	71	721				
SSI and other unearned income						
Shelter expenses less than \$286 (reported as \$285)	18	741				
Shelter expenses \$286 or more (reported as \$442)	62	741				
January 2015 – September 2015						
SSI only						
Shelter expenses less than \$286 (reported as \$285)	20	733				
Shelter expenses \$286 or more (reported as \$442)	66	733				
SSI and other unearned income						
Shelter expenses less than \$286 (reported as \$285)	16	753				
Shelter expenses \$286 or more (reported as \$442)	57	753				

Source: U.S. Department of Agriculture, FNS; FY 2015 raw SNAP QC datafile.

Note: When necessary, the data for units identified as SCCAP participants have been edited to follow the pattern presented in this table.

Table F.21. SD SSI-CAP (SD IN) benefit criteria, FY 2015

	Benefits							
Earnings and medical expenses	Individuals with shelter expenses of \$690 or more	Couples with shelter expenses of \$690 or more	Individuals with shelter expenses less than \$690	Couples with shelter expenses less than \$690				
No earnings								
Medical expenses less than or equal to \$35	\$171	\$231	\$76	\$119				
Medical expenses more than \$35	172	269	123	136				
Earnings								
Medical expenses less than or equal to \$35	149	169	23	21				
Medical expenses more than \$35	174	120	129	192				

Table F.22. TX SSI-CAP (SNAP-CAP) benefit criteria, FY 2015

Shelter expenses	Benefit
Less than \$289	\$65
\$289 or more	81

Source: U.S. Department of Agriculture, FNS.

Table F.23. VA SSI-CAP (VaCAP) benefit criteria, FY 2015

Shelter expenses	Benefit
Less than \$500	\$61
\$500 or more	86

Table F.24. FL (SUNCAP), MA (BAYSTATECAP), and WA SSI-CAP (WASHCAP) shelter allowances, FY 2015

Rent/mortgage cutoff for high/low standard rent allowance	Standard rent/mortgage allowance
FL (SUNCAP)	
\$240 or less	\$152
More than \$240	372
MA (BAYSTATECAP)	
Less than \$450	\$223
\$450 or more	453
WA (WASHCAP)	
Less than \$300	\$210
\$300 or more	400

Source: U.S. Department of Agriculture, FNS.

We only use the WASHCAP cutoffs for high and low standard rent allowances in our file editing process. The SUNCAP and BAYSTATECAP cutoffs are listed for reference. Note:



APPENDIX G QUALITY CONTROL REVIEW SCHEDULE



QUALITY CONTROL REVIEW SCHEDULE

PRIVACY ACT/PAPERWORK REDUCTION ACT. According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0584-0299. The time required to complete this collection is estimated to average 1.056 hours per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collection. This report is required under provisions of 7 CFR 275.14. This information is needed for the review of State performance in determining recipient eligibility. The information is used to determine State compliance, and failure to report may result in a finding of non-compliance.

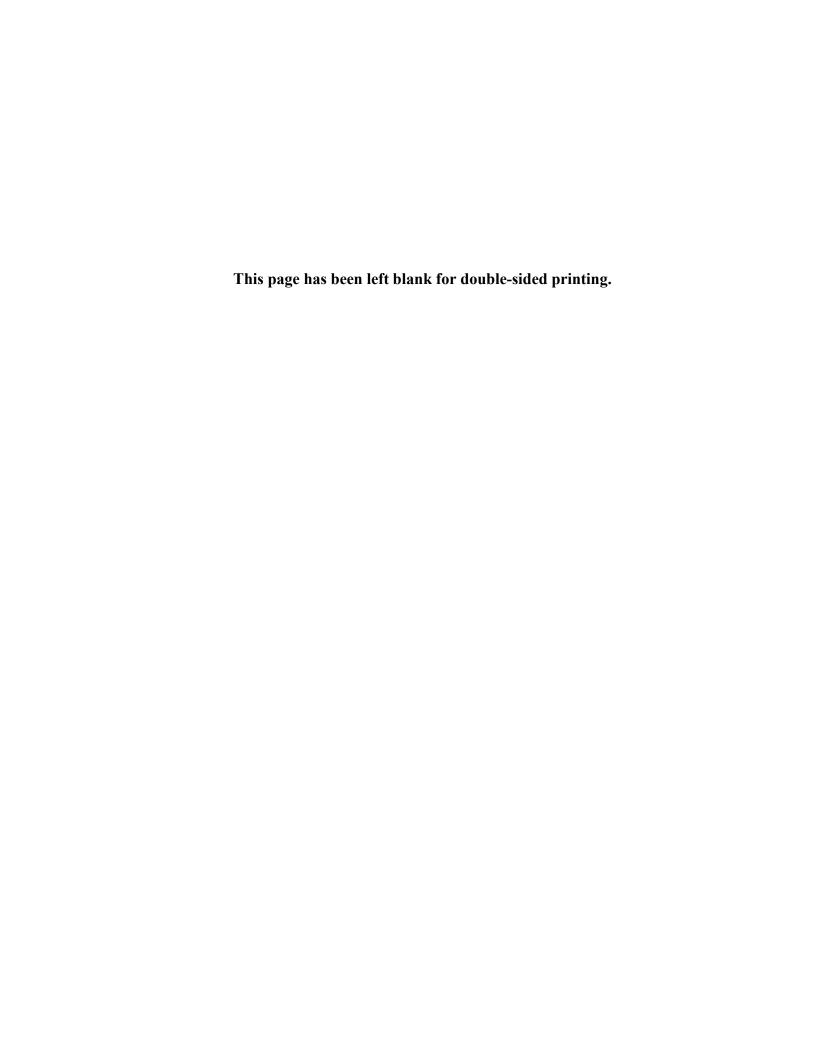
		Section 1	- Review	Summary			
1. QC Review Number	2. Case Number		3. State	4. Local Agency	5. S	ample Month and Year	6. Stratum
7. Disposition	8. Findings	9.SNAP Allotment Un	der Review	10. Erro	or Amount	11. Case Clas	sification
		Section 2 - I	Detailed E	rror Findings			
12. Element	13. Nature 14. Ca	use 15. Error Finding 16	. Error Amount	17. Discovery	18. Verified	19. Occurrence a. Date	b. Time Period
1							
2							
3							
4							
5							
6							
7							
8							

Section 3 - Household Characteristics									
20. Most Recent Cert. Action Month, Day, Year	21. Type of Action	22. Length of Cert. Period #of months	23. Allotment Adjustment	24. Amount of Allotment Adjustment					
25. Number of Household Members	26. Receipt of Expedited Service	27. Authorized Representative Used at Application	28. Categorical Eligibility	29. Reporting Requirement					
Resources:									
30. Liquid	30. Liquid 31. Property (excluding home) 32a. Vehicle		32b. Status 2nd Vehicle	33. Countable 34. Other Non-liquid Vehicle Assets					
Income:									
35. Gross	36. Net								
Deductions:									
37. Earned Income	38. Medical	39. Dependent Care	40. Child Support	41. Shelter 42. Homeless					
Additional Information on Shelter Costs:	43. Rent/Mortgage	44. Use of SUA a. Usage b. Proration	45. Utilities (SUA or Actual)						

Section 4 - Information on Each Household Member													
46. Person Number	47. SNAP Participation	48. Relation to Head of HH	49. Age	50. Sex	51. Race	52. Citizen Status	53. Edu. Level	54. Empl Status	loyment Hours	55. SNAP Work Reg.	56. SNAP E & T	57. ABAWD Status	58. Dependent Care Cost

You may record information on up to 16 individuals using additional pages.

		Se	ction 5 - Incon	ne Identified	by Household	d Member		
59. Person Number	Source 1 60. Income Type	61. Amount	Source 2 62. Income Type	63. Amount	Source 3 64. Income Type	65. Amount	Source 4 66. Income Type	67. Amount
You may rec	ord income on up to	10 individuals by usin	an additional pages					
Tou may rec	ord income on up to	TO ITICIVICUAIS By USII		on 6 - Reser	ved Coding			
68.	69.	70.	71. 72.	73.	74.	75.	76.	
			Section	7 - Optional	For State Use	!		
1.								
2.								
3.								
4.								



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