

Technical Working Paper:
Development of the 2010 CPS-
Based Eligibility Estimates, SNAP
QC-Based Participation Estimates,
and SNAP Participation Rates

Final

May 3, 2013

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Joel Smith



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I. INTRODUCTION

The Supplemental Nutrition Assistance Program (SNAP) helps low-income individuals purchase food so they can obtain a nutritious diet. Most individuals whose financial resources fall below income and asset thresholds established by the federal government are eligible for SNAP. Under federal rules applicable in all States, SNAP households in which all members receive cash benefits from Supplemental Security Income (SSI), Temporary Assistance for Needy Families (TANF), or, in some places, general assistance are categorically eligible for SNAP. Individuals in these “pure public assistance” households are not subject to SNAP income and asset limits.

Not all individuals who are eligible for SNAP participate. Some choose not to participate, but others are unaware they are eligible for benefits. An important measure of the program’s performance is its ability to reach its target population, as indicated by the proportion of people eligible for benefits who actually participate—the program’s participation rate. Eslami et al. (2012) present estimated national participation rates for individuals, households, and subgroups of individuals and households in fiscal year (FY) 2010. Their report also presents benefit receipt rates—that is, the amount of benefits received by participants as a proportion of total benefits for which eligible individuals qualify. Cunyningham (2012) presents FY 2008 through FY 2010 State SNAP participation rates.

The participation rates presented in Eslami et al. (2012) and Cunyningham (2012) estimate the percentage of individuals eligible under federal SNAP income and asset rules who chose to participate in the program. They do not include individuals who were categorically eligible through State broad-based categorical eligibility (BBCE) and narrow categorical eligibility (NCE) policies. States can confer BBCE for SNAP through programs that provide a TANF or State Maintenance of Effort (MOE)-funded non-cash benefit—sometimes as simple as a brochure on assistance programs—to a large number of households. States can confer NCE through non-cash

TANF/MOE-funded benefits or services provided to a small targeted group of households that, in most cases, formerly received or were diverted from TANF cash benefits. Although they were not included in either report, participation rate estimates that include individuals eligible solely through State BBCE policies were developed in tandem with the estimates presented in Eslami et al (2012) and Cunnynggham (2012).

This report documents the methodology used to produce the FY 2010 national estimates presented in Eslami et al. (2012) and the FY 2008 through FY 2010 State direct sample estimates used to develop the estimates presented in Cunnynggham (2012). The remainder of this introductory chapter discusses some challenges faced when estimating SNAP participation rates. Succeeding chapters describe each component of the methodology in detail. Values presented in the body of the report are for the FY 2010 estimates. Appendix A contains values for the FY 2008 and FY 2009 State direct sample estimates.

Participation rates are calculated by dividing the estimated number of participants by the estimated number of eligible individuals. For estimated participation rates to be meaningful, the estimates of participants and eligible individuals must be methodologically consistent. For instance, it is important that the two sets of estimates be for the same time period and the same population. Ideally, a single data set would be the best source for deriving estimates of both participants and eligible individuals. However, the best data for estimating numbers of participants—SNAP Quality Control (SNAP QC) data—do not include information on eligible individuals. Similarly, the best source for deriving annual estimates of eligible individuals—the Current Population Survey (CPS) Annual Social and Economic Supplement (ASEC)—underreports SNAP participation. Consequently, a primary challenge in estimating SNAP participation rates is producing estimates of the rate numerator and denominator that are as methodologically consistent as possible. Other challenges arise from the lack of availability of information necessary to determine eligibility and benefits on the CPS ASEC. An overview of specific challenges is provided below.

A. Challenges in Estimating Number of Eligible Individuals

Some data needed to simulate noncitizen eligibility not available. The CPS ASEC collects data on whether a person is native-born, a naturalized citizen, or a noncitizen. Because program eligibility rules distinguish between various categories of noncitizens, we impute whether a noncitizen is undocumented, a refugee, or subject to income and asset deeming from a sponsor. (See sections II.A.3 and IV.B for more information.)

Using annual data to estimate monthly eligibility. The CPS ASEC provides data on income for the previous calendar year. Because SNAP eligibility is based on monthly income, we allocate the annual income amounts in the CPS ASEC over the 12 months of the calendar year. (See Section II.B for more information.)

Using calendar year data to simulate fiscal year eligibility rules. SNAP eligibility rules generally apply to a fiscal year (beginning on October 1 of one year and ending September 30 of the following year). To create a fiscal year data file that aligns to fiscal year program rules, we combine data from two years of the CPS ASEC. (See Section II.C for more information.)

Underreported participation in SSI and TANF. As in many surveys, participation in SSI and TANF is underreported in the CPS ASEC. To ensure that benefits from these programs are correctly included in SNAP eligibility and benefit determinations, we simulate eligibility, participation, and benefits for both SSI and TANF. (See Chapter III for details.)

SSI, TANF, and SNAP unit formation. Eligibility for SSI, TANF, and SNAP is determined based on the income and assets of individuals who are required to apply together for each program, as determined by the program's rules. These "filing units" do not always include everyone in a household, so we use program rules and available data to simulate the formation of SSI, TANF, and SNAP units. (See sections III.A.1, III.B.1, and IV.A, respectively.)

Data on expenses and assets not available. Information on certain expenses is needed to calculate net income for SNAP eligibility and benefit determinations, and information on assets is

needed to determine asset eligibility for SSI, TANF, and SNAP. Because these data are not available in the CPS ASEC, we use equations estimated on the SNAP QC data to estimate SNAP net income and a Survey of Income and Program Participation (SIPP)-based microsimulation model to estimate SSI, TANF, and SNAP asset eligibility. (See Sections III.A.2, III.B.2, IV.D, and IV.E, respectively.)

B. Challenges in Estimating Number of Participants

Data on assets not available. To estimate a “federal rules” participation rate, we need to exclude from the numerator those participants on the SNAP QC data file who are eligible through State categorical eligibility rules but who would fail the federal asset test. Because the SNAP QC data file does not include the data on assets needed to determine asset eligibility, we use an equation estimated on SIPP data to predict the probability that income-eligible units would fail the federal SNAP asset test. (See Section V.B.)

II. CREATION OF THE CPS-BASED ELIGIBILITY FILE DATABASE

The estimates of eligible individuals are derived from a microsimulation model that uses CPS ASEC data and detailed information on program rules to simulate eligibility for SNAP. This chapter describes the initial processing of the CPS ASEC data, the allocation of annual income to monthly amounts, and the creation of a fiscal year file from two calendar year CPS ASEC data files.

The CPS is a monthly survey of households sponsored jointly by the U.S. Census Bureau and the U.S. Bureau of Labor Statistics (BLS). Each household is interviewed once a month for four consecutive months one year, and again in the corresponding time period a year later. The annual ASEC supplement contains additional data on work experience, income, noncash benefits, and migration. Because the CPS ASEC is released on a regular schedule and is consistent from year to year, it can be used to estimate trends in SNAP eligibility and participation rates.

The fiscal year 2010 eligibility file uses the 2010 CPS ASEC (sample size of 76,260) and the 2011 CPS ASEC (sample size of 75,188). (See Table A.1 for CPS ASEC sample sizes for previous years.)

A. Initial Data Processing

Several of the first steps in the creation of the CPS-based eligibility file are similar to those initially developed for the MATH CPS model development, although the current programs are in SAS rather than Fortran (Smith 2004).

1. Convert Raw CPS Data into MATH Model Format

The raw CPS ASEC data are converted into a format readable by the MATH model using three SAS programs: COMPARE-CONTENTS.SAS, MATHPC-HEADER.SAS, and MAKE-BIN-FILE.SAS. The COMPARE-CONTENTS program compares the contents of the previous and current year's CPS ASEC and summarizes the differences in its output. MATHPC-HEADER.SAS uses values such as the number of households found on the current CPS ASEC and the monthly and annual poverty guidelines to create the initial header file for the MATH file. Finally, the program

MAKE-BIN-FILE.SAS uses the outputs of the first program to convert the CPS ASEC into the initial MATH database, a hierarchical structure of household, family, and person-level records.

2. Recode CPS Data

The CODECPS (Recode Current Population Survey Data) module creates a set of key variables by recoding, renaming, or reformatting certain CPS ASEC variables and by creating new variables from combinations of CPS ASEC variables. This process ensures that the model has all the variables it needs in the expected format and that the variables remain relatively constant across years even if the values of the CPS ASEC variables change. CODECPS also creates some variables not available in the raw CPS ASEC.

3. Randomly Assign Some Noncitizens to Be Undocumented and Some to be Refugees

The CPS ASEC does not include data on whether a noncitizen was admitted as a refugee. To simulate eligibility rules for refugees, some noncitizens are randomly assigned to be refugees based on their year of arrival in the United States (Table II.1).

Table II.1. Probability a Newly Arrived Noncitizen Is a Refugee or Asylee

	Probability of Being a Refugee or Asylee by Year of Arrival								
	2002	2003	2004	2005	2006	2007	2008	2009	2010
FY 2008 file	0.08	0.08	0.10	0.10	0.09	0.09	0.09		
FY 2009 file			0.10	0.10	0.08	0.08	0.11	0.11	
FY 2010 file			0.10	0.10	0.08	0.08	0.11	0.11	0.11

Source: Tabulations based on Department of Homeland Security Yearbook of Immigration Statistics data.

The CPS ASEC does not include data on whether a noncitizen is in the United States lawfully. The probability that a noncitizen is undocumented is derived using noncitizen population counts from CPS ASEC and unpublished estimates developed by Dr. Jeffrey Passel for the Pew Hispanic Center of the number of undocumented foreign-born included in the CPS ASEC (Tables II.2 and A.2). These probabilities are then used to randomly assign the appropriate percentage of noncitizens to undocumented status.

Table II.2. Estimated Percentage of Noncitizens Who Are Undocumented, FY 2010

State or Group of States	Percent	State or Group of States	Percent
Alabama	95.5	Missouri	46.3
Alaska	30.7	Nebraska	51.6
Arizona	72.6	Nevada	83.2
Arkansas	58.0	New Jersey	51.6
California	45.2	New Mexico	71.4
Colorado	71.7	New York	29.5
Connecticut	45.3	North Carolina	71.9
Delaware	62.2	Ohio	52.5
District of Columbia	51.8	Oklahoma	70.1
Florida	48.0	Oregon	77.5
Georgia	75.3	Pennsylvania	45.1
Hawaii	41.9	Rhode Island	45.5
Idaho	65.1	South Carolina	61.1
Illinois	57.7	South Dakota	42.9
Indiana	78.5	Tennessee	71.3
Iowa	68.5	Texas	59.2
Kansas	65.1	Utah	83.3
Kentucky	57.0	Virginia	57.0
Maryland	54.0	Washington	42.4
Massachusetts	39.0	Wisconsin	64.1
Michigan	45.2	Wyoming	57.2
Minnesota	48.8	Maine, New Hampshire, Vermont, North Dakota, West Virginia, Mississippi, Louisiana, Montana	55.3

Source: Unpublished estimates prepared for the Pew Hispanic Center by Dr. Jeffrey Passel and CPS ASEC

Note: States with small sample sizes are grouped together.

4. Identification of Certain Types of Individuals

The DEFSTA (Defining Status) module creates flags that identify disabled individuals, full-time students, household heads, spouses of household heads, and principal earners in a family. While most of these types of individuals are relatively straightforward to identify, identifying disabled individuals is slightly more complex. Individuals are flagged as disabled if they were nonelderly (under age 60) and (1) were coded as having a health problem which prevented work or were not working because they were ill or disabled; or (2) received SSI or Medicare; or (3) were not working and received (a) a pension and left their job because of health reasons, (b) veteran’s benefits for a disability, or (c) social security for a disability.

B. Allocate Annual Income to Monthly Amounts

Reported annual income in the CPS ASEC is converted to monthly amounts using the ALLOY routine. The ALLOY routine has separate algorithms for allocating monthly amounts for earnings, unemployment compensation, public assistance, asset income, and other unearned income. ALLOY also simulates the monthly employment status for each individual who reports either earnings or being unemployed.

1. Determine Employment Status

Before allocating earnings, reported annual labor-force activity is allocated into monthly activity. Individual months of employment are assigned such that the simulated outcomes reflect the variation in the BLS monthly estimates of national employment and unemployment and match the annual employment and unemployment levels in the CPS ASEC.

First, monthly unemployment and employment targets are determined, with adjustments to the number of weeks unemployed when there is an indication of potential underreporting (Smith 2010). Next, initial probabilities of employment and unemployment for each individual are set to the number of adjusted weeks unemployed and the number of weeks employed, divided by 52. The initial probabilities of employment and unemployment are then adjusted to match the targets. Finally, the monthly labor-force status for each individual is randomly selected. Tables II.3 and A.3 show employment estimates from the BLS and CPS ASEC, employment targets, and simulated employment in the eligibility file.

2. Allocate Earnings

First, the average monthly earnings for each individual are determined by dividing the reported annual amount by the number of weeks worked, and multiplying the result by the number of weeks in a month (4.333). Then, average monthly earnings amounts are assigned to the months of employment as determined by the preceding employment status algorithm.

Table II.3. Employment Estimates, Targets, and Simulated Results, 2010

	Number Employed (000s)				Percent difference (Simulated – Target)
	BLS	CPS ASEC	Target	Simulated	
January	136,809	n.a	133,533	132,288	-0.9
February	137,203	n.a	133,918	132,688	-0.9
March	137,983	n.a	134,679	134,172	-0.4
April	139,302	n.a	135,966	136,119	0.1
May	139,497	n.a	136,157	136,373	0.2
June	139,882	n.a	136,533	136,279	-0.2
July	140,134	n.a	136,779	136,855	0.1
August	139,919	n.a	136,569	136,806	0.2
September	139,715	n.a	136,370	136,455	0.1
October	139,749	n.a	136,403	136,183	-0.2
November	139,415	n.a	136,077	136,230	0.1
December	139,159	n.a	135,827	135,836	0.0
Annual Total	1,668,767	1,628,809	1,628,809	1,626,284	-0.2

Sources: BLS labor force estimates from the CPS ASEC

3. Allocate Unemployment Compensation

The CPS ASEC does not report duration of unemployment compensation receipt, so number of months of receipt and monthly amounts are simulated. The number of weeks of unemployment compensation receipt is derived by dividing the annual reported amount on the CPS ASEC by the average weekly unemployment compensation in each State, as shown in Tables II.4 and A.4. Monthly unemployment income is then calculated by multiplying weekly unemployment compensation by the number of weeks in a month (4.333). Unemployment compensation is allocated throughout the year based on the estimated number of weeks the income is received.

4. Allocate Asset Income and Other Unearned Income

General assistance and asset income, which includes interest and dividends, are distributed uniformly over the year. Energy assistance income is distributed over October through March. Other unearned income is allocated according to the age of the individual receiving the income, the kind of income, and the annual amount. Income received by elderly individuals is distributed uniformly over the year. Income received by nonelderly individuals is distributed over a randomly selected number of months using a set of probabilities that differ according to whether the income is classified as “regular” or “irregular” (Table II.5). Income from Social Security, pensions, and worker’s compensation is treated as regular income, since it is usually received for a full year.

Alimony, child support, educational assistance, and financial assistance are treated as irregular, since individuals usually receive it for a few months a year. The first month of receipt is also randomly selected.

Table II.4. Average Weekly Unemployment Compensation, 2010

State	Average Weekly Unemployment Compensation	State	Average Weekly Unemployment Compensation
Alabama	206	Montana	272
Alaska	239	Nebraska	252
Arizona	214	Nevada	318
Arkansas	278	New Hampshire	272
California	301	New Jersey	397
Colorado	347	New Mexico	316
Connecticut	327	New York	307
Delaware	247	North Carolina	298
District of Columbia	299	North Dakota	310
Florida	231	Ohio	297
Georgia	273	Oklahoma	276
Hawaii	416	Oregon	290
Idaho	255	Pennsylvania	338
Illinois	317	Rhode Island	380
Indiana	295	South Carolina	236
Iowa	321	South Dakota	251
Kansas	326	Tennessee	223
Kentucky	289	Texas	316
Louisiana	209	Utah	316
Maine	274	Vermont	297
Maryland	316	Virginia	288
Massachusetts	392	Washington	384
Michigan	297	West Virginia	255
Minnesota	356	Wisconsin	275
Mississippi	190	Wyoming	337
Missouri	244		

Source: U.S. Department of Labor, Unemployment Insurance Data Summary

Table II.5. Cumulative Probabilities Used to Determine Duration of Receipt

Months of Receipt	Regular Income	Irregular Income	Months of Receipt	Regular Income	Irregular Income
1	0.098	0.197	7	0.309	0.614
2	0.149	0.300	8	0.325	0.652
3	0.187	0.378	9	0.344	0.686
4	0.244	0.483	10	0.372	0.716
5	0.263	0.542	11	0.391	0.761
6	0.288	0.585	12	1.000	1.000

Source: Doyle and Trippe 1991

C. Combine Two CPS ASEC Files to Create Fiscal Year File

Two calendar year CPS ASEC files are combined to create a fiscal year eligibility file. The eligibility file uses the simulated last quarter of the CPS ASEC for the earlier year and the simulated first, second, and third quarters of the CPS ASEC file for the later year. For the FY 2010 file, this means that October through December 2009 are simulated using the 2010 CPS ASEC (which reports 2009 income data) and January through September 2010 are simulated using the 2011 CPS ASEC (which reports 2010 income data). Fifty percent of each year's sample was interviewed in both years. However, each file is weighted independently and we treat each observation as unique.

III. SIMULATE SSI AND TANF IN THE ELIGIBILITY FILE

SSI and TANF eligibility, participation, and benefits are simulated in the eligibility file because participation in both programs is underreported in the CPS ASEC.

A. Simulate SSI

The SSI program is funded primarily by the federal government and provides need-based financial assistance to elderly and disabled individuals. To be eligible for SSI, individuals must be age 65 or older, or have a severe impairment lasting or expected to last at least one year. Certain noncitizens are categorically ineligible for SSI. To be potentially eligible, a noncitizen must be in one of the following categories:

- Refugees and asylees (for up to seven years)
- Legal permanent residents who were lawfully living in the U.S. on August 22, 1996, and are blind or disabled
- Legal permanent residents who were receiving SSI on August 22, 1996, and are lawfully living in the U.S.
- Legal permanent residents who have been lawfully in the U.S. for five or more years and have earned or can be credited (from their spouse or parents) with 40 qualifying quarters of earnings
- Legal permanent residents who are currently on active duty in the U.S. armed forces or are honorably discharged veterans; their spouses and dependent children are also potentially eligible

SSI is simulated in three steps. First, SSI units are formed. Second, asset and income eligibility tests are applied to determine whether each unit is eligible for SSI, and benefits are computed for eligible units. Finally, a calibration process selects eligible units to participate so that the simulated caseload matches SSI administrative data across a number of dimensions. These steps are described below.

1. Create SSI Units

Individuals who are elderly or disabled are assigned to an SSI unit, along with their spouse, if applicable. Disabled adults are identified earlier in the file creation process. (See Section II.A.4.)

Because of data limitations, the disability status of children under age 15 cannot be determined. Therefore, during the SSI unit formation process, we randomly assign some children to be potentially disabled and then determine whether they are eligible for SSI. If so, and if they are selected during the SSI calibration process, they are simulated to be disabled and SSI recipients. If the potentially disabled children are not eligible for SSI or are not selected during the calibration process, we do not continue to simulate them as disabled. The percentage of children simulated to be potentially disabled varies by age: 15 percent of children ages 0 to 5, 8 percent of children ages 6 to 10, 3 percent of children ages 11 to 15, and 1 percent of children ages 16 and 17 are randomly selected.

Once initial SSI units are formed, ineligible noncitizens are excluded. Following the eligibility rules listed above, the following noncitizens are simulated to be potentially eligible for SSI:

- Those who arrived in the U.S. before 1996 and either were elderly in 1996 or are currently disabled
- Those simulated earlier in the file development process to be refugees who have not been in the U.S. for more than seven years (see Section II.A.3)
- Noncitizens who have 40 quarters of work history, randomly selected based on Panel Study of Income Dynamics data (17.8 percent of remaining noncitizens)

2. Simulate SSI Eligibility

Income eligibility. Income eligibility is determined by comparing an SSI unit's net countable income with the combined federal and State SSI benefit guarantees. Countable income is calculated by summing income from all sources and deducting \$20 of income (deducted first from unearned income and then from earned income), \$65 of earned income, \$1,640 of earnings of individuals under age 22 who are regularly attending school, and 50 percent of the remaining earnings. Countable income also includes income deemed from an SSI-ineligible spouse or parent. Income eligible units are simulated to be eligible for State supplements.

An SSI unit passes the income test if its countable income is less than the combined federal and State guarantee for its State, living arrangement, and category. The 2010 eligibility estimates use the

2010 federal SSI guarantees of \$674 per month for an individual and \$1,011 per month for a couple. States have the option to supplement federal payments and may vary their supplement levels by the living arrangements of the recipients. For example, States may choose to provide a higher level of support to individuals living in a licensed group home than to individuals living independently. Since individuals living in institutions are not included in the CPS, the SSI routine assumes that all units eligible for a State SSI supplement received the “living independently” State supplement amount. Among States that supplement SSI, State guarantees for an individual who is living independently range from \$5 to \$362 per month. States may also vary their supplement by whether the SSI recipient is elderly or disabled. The State SSI supplements for elderly and disabled individuals are shown in Tables III.1, A.5a, and A.5b. (States not listed do not provide an SSI supplement.)

Asset eligibility. The 2010 asset limit was \$2,000 for an individual and \$3,000 for a couple. Countable assets do not include the value of a home, burial plots, certain personal goods, life insurance policies under \$1,500, or the highest-valued vehicle.

The CPS ASEC does not contain information on asset balances, so SSI asset eligibility is imputed with an equation estimated on a SIPP-based microsimulation model. Table III.2 presents the SSI asset equation coefficients.

Benefit computation. SSI benefits are calculated for all SSI units that pass the asset and income tests. The simulated benefit amount is the difference (if positive) between the combined federal and State guarantee and the unit’s countable income.

3. Simulate SSI Participation

The final step in the SSI simulation is selecting SSI participants from the pool of simulated eligible individuals to match control totals (by age, State, and income source) drawn from Social Security Administration (SSA) administrative data. Tables III.3, III.4, A.6a, A.6b, and A.7 show the control totals used for the calibration and the final simulated participant totals.

Table III.1. State SSI Supplements for Individuals and Couples Living Independently, January 2010

State	State SSI Supplements by Unit Type (\$)			
	Elderly Individual	Disabled Individual	Elderly Couple	Disabled Couple
Alaska	362	362	528	528
California	171	171	396	396
Colorado	25	25	387	387
Connecticut	168	168	274	274
Idaho	53	53	20	20
Maine	10	10	15	15
Massachusetts	129	114	202	180
Michigan	14	14	28	28
Minnesota	81	81	111	111
Nebraska	5	5	0	0
Nevada	36	0	74	0
New Hampshire	41	41	42	42
New Jersey	31	31	25	25
New York	87	87	104	104
Oklahoma	42	42	84	84
Pennsylvania	22	22	33	33
Rhode Island	40	40	79	79
South Dakota	15	15	15	15
Utah	0	0	5	5
Vermont	52	52	99	99
Washington	46	46	92	92
Wisconsin	84	84	132	132
Wyoming	25	25	56	56

Source: State Assistance Programs for SSI Recipients, January 2010

Table III.2. SSI Asset Equation Coefficients

Explanatory Variable	Coefficient
Constant	2.3125610
Homeowner	-0.8640628
Homeowner by SSI unit's interest income	7.3579520
In North Central	0.1443733
In South	0.2413597
In West	-0.2869501
More than one SSI unit in household	0.4658835
Number of children in SSI unit	-1.4944670
Number of elderly in SSI unit	-0.4400995
Number of high school graduates by SSI unit's earnings	0.0538283
Number of high school graduates by SSI unit's net income	-0.0510030
Number of high school graduates or equivalent	-0.3028685
Number of SSI unit members not in the labor force	0.1585487
SSI unit head is African American	0.9700721
SSI unit head is Hispanic	0.6273463
SSI unit head is not white, African American, Hispanic, or Asian	0.2468549
SSI unit passes net income test by homeowner	-0.3787424
SSI unit passes net income test by in North Central	-0.3527378
SSI unit passes net income test by in West	0.4857918
SSI unit passes net income test by number not in the labor force	0.3294281
SSI unit passes net income test by number of children in SSI unit	0.5734457
SSI unit passes net income test by number of high school graduates	-0.5090151
SSI unit passes net income test by SSI unit's dividend income	-16.11029
SSI unit passes net income test by SSI unit's earnings	-0.2875219
SSI unit passes net income test by SSI unit's net income	1.1877910
SSI unit passes net income test by SSI unit's rental income	-12.28553
SSI unit passes net income test by unit head is other race	0.7285853
SSI unit's dividend income	-2.1642610
SSI unit's dividend income squared	383.0569
SSI unit's earnings	-0.1721697
SSI unit's earnings squared	3.1547600
SSI unit's interest income	-86.85640
SSI unit's interest income squared	437738.9
SSI unit's interest income to the third power	-638000000
SSI unit's net income	-0.5796843
SSI unit's net income squared	49.56915
SSI unit's net income to the fourth power	8367.063
SSI unit's net income to the third power	-1425.463
Type of SSI unit	0.1818622

Source: 2009 Baseline of 2005 MATH SIPP+ model

Table III.3. State SSI Control and Simulated Participant Totals, by Age, 2010

State	Control Totals			Simulated Participant Totals		
	Under 18	18 to 64	65 or Older	Under 18	18 to 64	65 or Older
Alabama	30,045	112,238	29,937	33,299	118,836	29,995
Alaska	1,239	7,972	3,031	1,122	8,799	2,972
Arizona	20,526	63,335	26,016	19,668	70,129	24,847
Arkansas	27,009	63,775	15,961	27,065	66,381	14,546
California	111,206	613,109	544,808	112,480	604,510	526,913
Colorado	8,660	41,675	15,176	9,258	41,148	14,824
Connecticut	7,950	36,904	13,375	9,022	39,306	13,412
Delaware	3,626	9,622	2,556	3,681	9,582	2,532
District of Columbia	4,391	15,791	4,189	4,380	15,160	4,387
Florida	92,928	233,396	158,039	94,504	228,336	161,567
Georgia	41,154	137,475	49,869	38,990	139,989	51,358
Hawaii	1,721	14,611	8,565	1,633	14,483	9,097
Idaho	5,277	18,227	3,732	5,220	17,236	3,449
Illinois	44,751	168,598	59,930	41,532	170,880	60,833
Indiana	25,707	79,539	12,784	26,432	81,186	11,957
Iowa	7,943	32,817	6,874	7,328	33,137	5,813
Kansas	8,765	30,354	6,722	9,049	31,005	6,596
Kentucky	30,328	129,720	32,280	29,308	128,848	31,332
Louisiana	35,551	106,924	32,194	38,207	112,706	34,138
Maine	3,900	26,299	5,287	4,032	24,450	4,737
Maryland	16,889	65,697	24,800	17,298	66,410	25,512
Massachusetts	23,202	119,236	50,560	19,352	123,827	53,584
Michigan	41,454	173,668	38,427	39,673	187,175	38,121
Minnesota	12,984	54,850	18,648	13,174	52,451	18,466
Mississippi	24,020	75,879	25,670	23,173	77,430	26,915
Missouri	22,796	91,969	19,078	20,268	102,590	17,227
Montana	2,523	12,184	2,825	2,733	11,897	2,871
Nebraska	4,071	17,652	3,952	4,516	18,129	4,082
Nevada	7,724	22,657	10,627	7,130	23,653	9,550
New Hampshire	2,400	13,532	1,983	2,561	14,381	1,946
New Jersey	24,884	89,936	53,771	23,373	90,187	53,014
New Mexico	9,103	35,212	16,183	8,886	34,174	16,633
New York	83,532	362,848	234,811	83,509	372,269	241,256
North Carolina	41,767	133,220	44,456	43,689	137,816	42,057
North Dakota	1,089	5,591	1,622	1,125	5,524	1,578
Ohio	48,693	198,054	38,823	48,443	200,957	37,449
Oklahoma	17,722	61,395	14,604	17,948	64,231	13,708
Oregon	9,984	49,654	15,113	10,775	49,242	14,265
Pennsylvania	70,104	226,308	61,527	67,305	230,623	63,866
Rhode Island	4,607	21,027	7,125	4,193	20,536	7,270
South Carolina	20,280	69,298	22,432	22,098	74,443	24,605
South Dakota	2,431	8,473	2,944	2,260	9,363	2,922
Tennessee	25,042	117,036	32,425	25,280	107,049	32,247
Texas	129,744	318,912	167,907	134,824	322,786	168,045
Utah	5,295	18,271	4,513	4,274	17,813	4,089
Vermont	1,861	10,941	2,487	1,532	10,226	2,330
Virginia	24,082	90,349	33,874	24,591	92,021	34,737
Washington	17,238	89,661	30,548	16,023	87,111	30,831
West Virginia	9,193	59,531	11,611	9,225	61,572	8,586
Wisconsin	20,587	71,021	15,868	20,826	71,823	15,841
Wyoming	971	4,608	790	954	4,669	715

Source: SSA's SSI Annual Statistical Report, 2010

Table III.4. National SSI Control and Simulated Participant Totals, by Income Source, 2010

	Control Totals			Simulated Participant Totals		
	Under 18	18 to 64	65 or older	Under 18	18 to 64	65 or older
All	1,239,269	4,631,507	2,041,490	1,237,225	4,698,485	2,029,617
No other income	914,566	2,795,274	783,371	1,226,530	3,169,393	793,907
Earnings	2,255	230,469	26,964	670	233,273	97,063
Social Security	92,154	1,458,740	1,147,069	7,631	926,503	1,221,262

Source: SSA's SSI Annual Statistical Report, 2010

B. Simulate TANF

TANF is a block grant program designed to provide temporary assistance to needy families while helping recipients move into work. States have wide latitude in establishing programs and setting eligibility requirements.

The TANF simulation follows a process similar to the SSI simulation. It first places household members into TANF units, then determines whether the TANF unit is eligible for benefits and, if so, predicts benefit amounts and finally selects TANF participants from among eligible units. In States where TANF program rules differ for applicants and ongoing recipients, the more generous eligibility requirements applicable to ongoing recipients are simulated.

1. Create TANF Units

In households that contain children or a pregnant woman, TANF units are formed to include related children, the head of their family, and the spouse of the head. If an adult pregnant woman does not have any dependents, she forms her own TANF unit. Foster children and SSI recipients are not included in TANF units. If multiple families live in one household, multiple TANF units are formed. If a TANF unit does not contain any adults, data on household relationships are used to try to identify an adult in the household likely to be responsible for the care of the minor children. If found, such adults are added to child-only TANF units.

2. Simulate TANF Eligibility

Income eligibility. TANF income eligibility rules are established by each State and can include a gross income test, a net income test, both types of income tests, or neither. The 2010 eligibility simulation uses TANF rules for July 2009. States that did not have explicit income tests for ongoing recipients include Alabama, California, the District of Columbia, Idaho, Illinois, Kansas, Louisiana, Maryland, Michigan, Minnesota, Nebraska, New Hampshire, New Jersey, North Carolina, North Dakota, Ohio, Rhode Island, South Dakota, Vermont, and Wyoming. Income tests for other States are listed in Table III.5. The first column after the State name indicates whether the State applies a gross and/or net income test, along with the percentage of the State threshold under which the indicated type of income must fall. For instance, in Alaska, TANF units must have gross income under 185 percent and net income under 100 percent of the listed threshold. A few States limit their income tests to earned or unearned income, or have two income tests that use two different sets of thresholds. Although Table III.5 only presents thresholds for TANF units with up to six members, most States increase the thresholds for larger TANF units (Smith and Wang 2012).

Net income is calculated by subtracting an earnings deduction and, in some States, a dependent care deduction from a unit's gross earnings. Earnings deductions vary by State. Some States disregard a dollar amount of earnings (for instance, the first \$150), others disregard a percentage of earnings, and still others combine both approaches. States that allow a dependent care expense deduction deduct dependent care expenses from gross income up to the maximum deduction amount or earnings, whichever is lower. Table III.6 shows the earnings and dependent care deduction policies for States with a net income test.

Table III.5. State TANF Income Tests and Thresholds, July 2009

State	Type of Income and Percentage of Threshold	TANF Unit Size					
		1	2	3	4	5	6
Alaska	Gross < 185%, net < 100%	814	1,301	1,464	1,627	1,790	1,953
Arizona	Gross < 185%, net < 100%	567	765	964	1,162	1,360	1,559
Arkansas	Net < 100%	223	223	223	223	223	223
Colorado	Gross unearned < 185%	117	331	421	510	605	697
Connecticut	Gross unearned < 100%	472	627	768	903	1,033	1,169
Connecticut	Gross earned < 100%	903	1,215	1,526	1,838	2,150	2,461
Delaware	Gross < 185%, net < 100%	650	875	1,100	1,325	1,550	1,775
Florida	Gross < 185%	903	1,215	1,526	1,838	2,150	2,461
Georgia	Gross < 185%	235	356	424	500	573	621
Hawaii	Gross < 185%, net < 100%	939	1,265	1,590	1,916	2,242	2,568
Indiana	Net < 100%	903	1,215	1,526	1,838	2,150	2,461
Iowa	Gross < 185%	365	719	849	986	1,092	1,216
Kentucky	Gross < 185%	401	460	526	592	658	724
Maine	Gross < 100%	485	762	1,023	1,286	1,548	1,811
Massachusetts	Gross < 185%	428	531	633	731	832	936
Mississippi	Gross < 185%	218	293	368	443	518	593
Missouri	Gross < 185%	393	678	846	990	1,123	1,247
Montana	Gross < 185%	345	464	583	702	821	940
Montana	Net < 100%	271	364	458	551	644	738
Nevada	Gross < 130%	903	1,215	1,526	1,838	2,150	2,461
New Mexico	Gross < 85%	903	1,215	1,526	1,838	2,150	2,461
New York	Gross < 185%	414	501	691	825	964	1,059
Oklahoma	Gross < 185%	398	499	645	798	933	1,068
Oregon	Gross < 100%	345	499	616	795	932	1,060
Pennsylvania	Net < 100%	205	316	403	497	589	670
South Carolina	Gross < 185%	433	583	733	883	1,033	1,183
Tennessee	Gross < 185%	696	896	1,066	1,211	1,335	1,441
Texas	Net < 100%	78	163	188	226	251	288
Utah	Gross < 185%, net < 100%	329	456	568	665	757	834
Virginia	Gross < 185%	174	257	322	386	457	509
Washington	Gross earned < 100%	1,131	1,431	1,767	2,085	2,403	2,721
West Virginia	Gross < 100%	581	786	991	1,196	1,401	1,606
Wisconsin	Gross < 115%	903	1,215	1,526	1,838	2,150	2,461

Source: The Urban Institute's Welfare Rules Database, funded by U.S. Department of Health and Human Services (HHS) Administration for Children and Families (ACF) and HHS Assistant Secretary for Planning and Evaluation (ASPE)

Table III.6. Earnings and Dependent Care Deduction Policies for States with TANF Net Income Test, July 2009

State	Earnings Deduction	Maximum Dependent Care Expense Deduction per Dependent
Alaska	\$150 plus 33% of remainder	\$200 for child under age 2; \$175 for older
Arizona	\$90 plus 30% of remainder	If working 20 or more hours, \$200 for child under age 2, \$175 for older. If working less, \$100 for child under age 2, \$88 for older.
Arkansas	68%	No deduction
Delaware	\$120	\$200 for child under age 2; \$175 for older
Hawaii	\$200 plus 50% of remainder	If working 20 or more hours, no limit for child under age 2, \$175 for older. If working less, \$165 regardless of age.
Indiana	\$120	\$200 for child under age 2; \$175 for older
Montana	\$200 plus 25% of remainder	\$200 regardless of age
Pennsylvania	\$90	No deduction
Texas	120 plus 33% of remainder	\$200 for child under age 2; \$175 for older
Utah	\$100 plus 50% of remainder	If working 30 or more hours, \$200 for child under age 2, \$175 for older. If working less, \$160 for child under age 2, \$140 for older.

Source: The Urban Institute's Welfare Rules Database, funded by HHS ACF and HHS ASPE

Asset eligibility. To be asset eligible, the TANF unit's countable assets must be less than the State's asset limit (Table III.7). Countable assets include cash in savings accounts, money markets, certificates of deposit, interest-earning checking accounts, stock and mutual funds, and 401K, IRA, and Keogh accounts (less an early withdrawal penalty fee). Some States also count a portion of the value of a unit's vehicles toward the asset limit. Alabama, Arizona, District of Columbia, Hawaii, Kansas, Kentucky, Louisiana, Maryland, Michigan, Mississippi, New Jersey, North Carolina, Ohio, Utah, and Virginia do not include vehicles in a unit's countable assets. Other States rules for counting vehicle assets are listed in Table III.8.

The CPS ASEC does not contain information on asset balances, so TANF asset eligibility is imputed with a set of equations estimated on a SIPP-based microsimulation model. The TANF asset equation coefficients are presented in Table A.8.

Table III.7. State TANF Asset Limits, July 2009

State	Asset Limits
Delaware, Georgia, Oklahoma, Pennsylvania, Rhode Island, Texas, Washington	\$1,000
Indiana	\$1,500
Arizona, Florida, Idaho, Kansas, Louisiana, Maine, Maryland, Mississippi, Nevada, New Hampshire, New Jersey, South Dakota, Tennessee, Utah, Vermont, West Virginia	\$2,000
Kentucky	\$2,000 for financial resources
Alabama, Alaska, California, District of Columbia, New York	\$2,000, \$3,000 for units with elderly
Illinois	\$2,000 for one person, \$3,000 for two, plus \$50 for each additional person
Massachusetts, South Carolina, Wisconsin, Wyoming	\$2,500
Arkansas, Connecticut, Michigan, Montana, North Carolina	\$3,000
New Mexico	\$1,500 for liquid resources, \$2,000 for nonliquid resources
North Dakota	\$3,000 for one person, \$6,000 for two, plus \$25 for each additional person
Nebraska	\$4,000 for one person, \$6,000 for two or more
Hawaii, Iowa, Minnesota, Missouri	\$5,000
Oregon	\$10,000
Colorado	\$15,000
Ohio, Virginia	None

Source: The Urban Institute's Welfare Rules Database, funded by HHS ACF and HHS ASPE

Table III.8 State TANF Rules for Counting Vehicle Assets

State	State Rule for Counting Vehicle Assets
Alaska	Exclude one vehicle per driver and count the equity of remaining vehicles.
Arkansas	Exclude one vehicle and count the fair market value (FMV) of remaining vehicles.
California	Exclude vehicles with equity of \$1,501 or less plus one vehicle per driver. Count remaining vehicles at the greater of their equity or their FMV less \$4,650.
Colorado	Exclude one vehicle per working adult and count the equity of remaining vehicles.
Connecticut	Exclude a vehicle used to produce income or transport a disabled person. If the unit does not have such a vehicle, count one vehicle at its equity less \$9,500. Count the equity of remaining vehicles.
Delaware	Count one vehicle at its equity less \$4,650 and count the equity of remaining vehicles.
Florida	Count one vehicle at its equity less \$8,500 and count the equity of remaining vehicles.
Georgia	Exclude vehicles used to produce income or transport a disabled person. If someone in the unit works, count one vehicle at its equity less \$4,650; if the unit contains a married couple and both work, count a second vehicle in the same manner. If no one in the unit works, count one vehicle at its equity less \$1,500. Count the equity of remaining cars.
Idaho	Exclude vehicles used to produce income or transport a disabled person and vehicles with a FMV under \$1,500. Count one vehicle at its FMV less \$4,650.
Illinois	Exclude one vehicle and count the equity of remaining vehicles.

Table III.8 (continued)

State	State Rule for Counting Vehicle Assets
Indiana	Count one vehicle at its equity less \$5,000 and count the equity of remaining vehicles.
Iowa	Exclude one vehicle. Count the equity less \$4,658 for one vehicle per worker and the full equity of remaining vehicles.
Maine	Exclude one vehicle and count the equity of remaining vehicles.
Massachusetts	Count one vehicle at the greater of its FMV less \$10,000 or its equity less \$5,000. Count remaining vehicles at the greater of FMV or equity.
Minnesota	Exclude vehicles used to produce income or transport a disabled person. Count one vehicle at its FMV less \$15,000. Count remaining vehicles at the sum of their FMV less \$7,500.
Missouri	Exclude one vehicle. Count another vehicle at its equity less \$1,500 and count the equity of remaining vehicles.
Montana	Exclude vehicles used to produce income or transport a disabled person and one remaining vehicle. Count the equity of non-excluded vehicles.
Nebraska	Exclude vehicles used to produce income or transport a disabled person and one remaining vehicle. Count the equity of non-excluded vehicles.
Nevada	Exclude one vehicle and count the equity of remaining vehicles.
New Hampshire	Exclude one vehicle per driver and count the equity of remaining vehicles.
New Mexico	Exclude vehicles used to produce income or transport a disabled person plus additional vehicles up to the number of workers in the unit. Count the equity of remaining vehicles.
New York	Count one vehicle per worker at its FMV less \$9,300. If the TANF unit does not contain workers, count one vehicle at its FMV less \$4,650. Count the FMV of remaining vehicles.
North Dakota	Exclude one vehicle and count the equity of remaining cars.
Oklahoma	Count one vehicle at its equity less \$5,000 and count the equity of remaining vehicles.
Oregon	Count one vehicle at its equity less \$10,000 and count the equity of remaining vehicles.
Pennsylvania	Exclude one vehicle and count the equity of remaining vehicles.
Rhode Island	Exclude vehicles used to produce income or transport a disabled person and one vehicle per adult up to two. Count the equity of remaining vehicles.
South Carolina	Exclude vehicles used to produce income or transport a disabled person and additional vehicles up to the number of drivers. Count the equity of remaining vehicles.
South Dakota	Exclude one vehicle used to produce income or transport a disabled person. Count additional vehicles up to one per driver at their FMV less \$4,650. Count the FMV of remaining vehicles.
Tennessee	Count one vehicle at its equity less \$4,600 and count the equity of remaining vehicles.
Texas	Exclude vehicles used to produce income or transport a disabled person. Count the FMV less \$4,650 of remaining vehicles.
Vermont	Exclude one vehicle per adult and count the equity of remaining vehicles.
Washington	Exclude vehicles used to produce income or transport a disabled person. Count one vehicle at its equity less \$5,000 and count the equity of remaining vehicles.
West Virginia	Exclude one vehicle and count the FMV of remaining vehicles.
Wisconsin	Count one vehicle at its equity less \$10,000 and count the equity of remaining vehicles.
Wyoming	Exclude one vehicle, or two if the unit contains a married-couple unit. Count the equity of remaining cars.

Source: The Urban Institute's Welfare Rules Database, funded by HHS ACF and HHS ASPE

Benefit determination. Most States calculate a TANF unit's benefit by subtracting net income from the maximum benefit amount for the unit's size. In some of these States, the net income used to calculate the TANF benefit differs from the net income used to determine eligibility. Several States have developed more complex benefit calculations.

To streamline the TANF simulation, TANF benefits are predicted using a set of equations based on ACF and SNAP QC data. Two years of ACF data provide average benefits, and the SNAP QC data provide information about benefits across different socioeconomic groups. Predicted benefits are capped at a State's maximum benefit for unit size and, in States with a minimum benefit, are set to missing if below the State minimum. The TANF benefit coefficients are presented in Table A.9. Table III.9 presents State minimum benefits and maximum benefits for TANF units with up to six members. For maximum benefits for larger TANF units and details on State TANF benefit calculations, see Smith and Wang (2012).

3. Simulate TANF Participation

The final step in the TANF simulation is selecting TANF participants from the pool of simulated eligible individuals to match control totals drawn from FY 2009 ACF administrative data. State and national TANF control and calibration totals are presented in Tables III.10 and III.11, respectively.

Table III.9. State Minimum and Maximum TANF Benefits

	Minimum Benefit	Maximum Benefit by TANF Unit Size					
		1	2	3	4	5	6
Alabama	10	165	190	215	245	275	305
Alaska	10	514	821	923	1,025	1,127	1,229
Arizona	10	204	275	347	418	490	561
Arkansas	10	81	162	204	247	286	331
California	10	359	584	723	862	980	1,101
Colorado	10	99	280	356	432	512	590
Connecticut	10	344	457	560	659	754	853
Delaware	10	201	270	338	407	475	544
District of Columbia	10	270	336	428	523	602	708
Florida	10	180	241	303	364	426	487
Georgia	10	155	235	280	330	378	410
Hawaii	10	376	506	636	766	897	1,027
Idaho	10	309	309	309	309	309	309
Illinois	1	243	318	432	474	555	623
Indiana	10	139	229	288	346	405	463
Iowa	10	183	361	426	495	548	610
Kansas	10	267	352	429	497	558	619
Kentucky	10	186	225	262	328	383	432
Louisiana	10	122	188	240	284	327	366
Maine	10	230	363	485	611	733	856
Maryland	10	255	446	565	684	792	871
Massachusetts	10	428	531	633	731	832	936
Michigan	10	305	401	489	593	689	822
Minnesota	10	250	437	532	621	697	773
Mississippi	10	110	146	170	194	218	242
Missouri	10	136	234	292	342	388	431
Montana	10	281	376	472	568	664	759
Nebraska	10	222	293	364	435	506	577
Nevada	10	253	318	383	448	513	578
New Hampshire	10	489	556	625	688	748	829
New Jersey	10	162	322	424	488	552	616
New Mexico	10	266	357	447	539	630	721
New York	10	414	501	691	825	964	1,059
North Carolina	25	181	236	272	297	324	349
North Dakota	10	282	378	477	573	670	767
Ohio	10	245	336	410	507	593	660
Oklahoma	10	180	225	292	361	422	483
Oregon	10	343	436	514	630	727	848
Pennsylvania	10	205	316	403	497	589	670
Rhode Island	10	327	449	554	634	714	794
South Carolina	10	156	210	263	317	371	424
South Dakota	10	393	482	539	595	651	709
Tennessee	10	95	142	185	226	264	305
Texas	10	102	211	244	293	325	374
Utah	1	274	380	474	555	632	696
Vermont	10	434	536	640	726	817	879
Virginia	10	173	254	320	382	451	479
Washington	10	359	453	562	661	762	866
West Virginia	1	262	301	340	384	420	460
Wisconsin	1	628	628	628	628	628	628
Wyoming	10	195	320	340	340	360	360

Source: The Urban Institute's Welfare Rules Database, funded by HHS ACF and HHS ASPE

Table III.10. State TANF Control and Calibration Totals

State	Control Totals	Calibration Totals	State	Control Totals	Calibration Totals
Alabama	18,417	20,412	Montana	3,445	3,573
Alaska	3,190	3,310	Nebraska	8,223	8,864
Arizona	37,772	40,178	Nevada	8,332	8,707
Arkansas	8,463	8,966	New Hampshire	5,612	5,305
California	532,358	478,505	New Jersey	40,198	41,783
Colorado	9,275	10,279	New Mexico	19,280	20,102
Connecticut	16,721	16,331	New York	148,002	146,399
Delaware	4,506	4,730	North Carolina	25,680	28,943
District of Columbia	13,338	12,067	North Dakota	2,148	2,187
Florida	55,090	60,488	Ohio	90,012	96,732
Georgia	21,040	22,816	Oklahoma	8,696	9,899
Hawaii	8,881	9,183	Oregon	25,052	22,924
Idaho	1,589	2,111	Pennsylvania	56,749	62,168
Illinois	19,602	22,186	Rhode Island	8,484	8,287
Indiana	39,900	42,477	South Carolina	17,916	20,301
Iowa	16,154	17,092	South Dakota	2,976	3,157
Kansas	13,117	11,887	Tennessee	58,935	64,019
Kentucky	29,473	30,675	Texas	55,009	59,662
Louisiana	10,201	12,396	Utah	6,146	6,258
Maine	13,516	11,963	Vermont	4,928	4,607
Maryland	22,439	21,883	Virginia	33,443	36,174
Massachusetts	62,146	57,622	Washington	61,710	61,845
Michigan	71,444	75,336	West Virginia	9,192	10,084
Minnesota	28,122	26,400	Wisconsin	18,473	19,344
Mississippi	11,311	12,586	Wyoming	389	462
Missouri	40,610	43,265			

Source: FY 2009 ACF administrative data

Table III.11. National TANF Control and Calibration Totals

	Control Totals	Calibration Totals
Total TANF units	1,827,707	1,826,932
SNAP eligible units	1,810,543	1,809,062
Units by number of participants		
1	483,017	292,216
2	659,755	758,058
3	385,845	440,063
4	183,327	207,308
5 or more	115,762	129,287
Units by number of children		
None	72,307	108,786
1	905,526	925,597
2	484,843	470,009
3 or more	365,031	322,540
Units by number of infants		
None	1,706,338	1,708,170
At least one	121,369	118,762
Units with a married person	206,544	196,808
Units with noncitizen(s)	76,486	72,924
Units by ratio of benefit to maximum benefit		
1 to 20	63,204	49,023
20 to 40	81,944	67,211
40 to 60	157,133	142,554
60 to 80	203,918	205,935
80 to 99	376,999	393,851
Maximum benefit	944,510	968,358
Units by ratio of gross income to poverty level		
No gross income	1,351,664	1,333,500
1 to 24	196,937	201,556
25 to 49	111,383	117,009
50 to 99	128,013	133,778
100 to 129	22,965	23,102
130 to 199	16,744	17,988
Units by ratio of earned income to poverty level		
No earned income	1,575,428	1,519,114
1 to 24	47,839	67,722
25 to 49	66,479	82,760
50 to 99	104,656	118,008
100 or more	33,306	39,328
Units by ratio of unearned income to poverty level		
No unearned income	1,708,709	1,672,626
1 to 24	81,717	112,430
25 to 49	22,083	25,497
50 to 99	13,350	14,905
100 or more	1,848	1,475

Source: FY 2009 ACF administrative data

IV. SIMULATE SNAP IN THE ELIGIBILITY FILE

SNAP eligibility guidelines, including SNAP unit formation rules, asset limits, and income limits, are applied to each household in the CPS ASEC.

A. Simulate SNAP Unit Composition

Under SNAP rules, a SNAP unit is defined as individuals who live together and customarily purchase and prepare food together. Individuals who live together but do not customarily purchase and prepare food together usually may apply for SNAP as separate SNAP units. However, spouses must apply together, and parents must apply with their children under age 22 if they are living in the same household. Certain individuals are categorically ineligible for SNAP. These include (1) SSI recipients in California (who receive a small additional cash benefit instead of SNAP benefits), (2) most individuals living in group quarters, (3) most full-time post-secondary students, and (4) ineligible noncitizens.

A small number of individuals are ineligible for SNAP because they are drug felons or ineligible strikers, or because they failed to meet work requirements, violated program rules, or are not cooperating with a child support agency. Additionally, individuals who participate in the Food Distribution Program on Indian Reservations—about 85,000 individuals in FY 2010—are not eligible to also participate in SNAP. The CPS ASEC does not contain the data necessary to simulate the ineligibility of these groups of individuals.

The simulation of SNAP units within each CPS ASEC dwelling unit, or household, follows the rules described above. In most cases, all members of a household are simulated as being in the same SNAP unit. However, for the relatively small percentage of households with multiple families or unrelated individuals, two or more groups of people may be simulated to form separate SNAP units. Because the CPS ASEC does not identify which household members customarily purchase and prepare food together, SNAP unit formation for these more complex households is imputed

according to patterns observed in a SIPP-based microsimulation model. The unit formation methodology follows these steps:

1. **Family-based units are created.** Initially, subfamilies form units separately from the primary family. An unmarried partner of the householder and that person's children are included in the householder's unit. A child of the householder who is under age 22, along with the child's spouse and children, are included in the householder's unit. Unrelated individuals form their own units.
2. **SNAP and public assistance units are aligned.** SNAP units are combined if all members of both SNAP units are members of the same simulated TANF unit. A related subfamily is added to the primary family's unit if all members of the subfamily and primary family receive public assistance. However, units in which all members receive SSI are not combined with other units.
3. **Some units are combined.** Unrelated individuals with no income are added to the unit of another unrelated individual, if there is one. If the unit containing unrelated individuals still has no income, it is added to the unit of a subfamily that contains at least one member who does not receive public assistance. Additionally, (1) a percentage of unrelated individuals with income are combined with other units, and (2) a related subfamily with nonelderly SSI income is added to the primary family unit.
4. **Some units are split.** Elderly individuals and couples with SSI form their own units. A small percentage of other elderly individuals and couples also form their own units.

Table IV.1 shows the number of SNAP units formed by whether the household contains more than one SNAP unit, whether the SNAP units are strictly family based or if adjustments were made, and whether the household contains a categorically ineligible person. Note that "SNAP unit" refers to a group of individuals who are simulated to apply for SNAP as a unit. At this stage of the SNAP simulation, eligibility has not yet been determined, so Table IV.1 includes SNAP units later determined to be ineligible for SNAP as well as eligible nonparticipating and eligible participating SNAP units.

B. Identify Eligible Noncitizens

In FY 2010, the following groups of lawful permanent resident noncitizens were eligible for SNAP:

- Noncitizens who are under age 18
- Noncitizens who are receiving disability benefits
- Noncitizens who have lived legally in the United States for more than five years

- Noncitizens who were admitted as refugees or granted asylum or a stay of deportation
- Other groups of noncitizens, such as lawful permanent residents with a military connection or with 40 qualifying quarters of work

Table IV.1. SNAP Unit Formation Results, FY 2010

	All	Household Contains a Categorically Ineligible Person	
		No	Yes
Total SNAP units	122,867,716	122,030,018	837,698
In household with only one SNAP unit	112,614,879	112,008,867	606,012
Household consists solely of one family or individual	101,240,139	100,798,359	441,780
Household includes more than one family or unrelated individuals	11,374,740	11,210,508	164,232
In household with multiple SNAP units	10,252,837	10,021,151	231,686
Units are strictly family-based	7,382,130	7,219,655	162,475
Step 1 adjustments were necessary to align with SNAP rules	301,595	296,750	4,845
Other adjustments were made to match SIPP model unit composition	2,569,112	2,504,746	64,366

Source: January 2010 simulation

All individuals simulated earlier in the file development process to be undocumented noncitizens are ineligible for SNAP and individuals simulated to be refugees are potentially eligible (see Section II.A.3). The CPS ASEC distinguishes between citizens and noncitizens and includes information that makes it possible to identify noncitizens who are eligible because they are under age 18, receiving disability benefits, or have been in the country for at least five years.

As a result of the more stringent sponsor deeming provisions implemented in 1997, certain noncitizens are subject to the deeming of their sponsors' income and assets until they have 40 quarters of work credited to them or until they naturalize. These noncitizens are likely either to not be eligible or to choose to remove themselves from the SNAP unit to avoid negative repercussions to their sponsors. This provision does not apply to immigrants without sponsors or to those who were sponsored by an institution or employer. It also does not apply to immigrants living with their sponsor, since the sponsor's income would already be considered under regular program rules.

We used data from the New Immigrant Survey (NIS) to estimate the percentage of noncitizens who are likely ineligible due to the more stringent sponsor deeming provisions. The NIS is a sample of all adult immigrants admitted to legal permanent residence between May and November of 2003, with a sample size of 8,572. The data file contains information from the U.S. Citizenship and Immigration Services about the class of admission of the sampled immigrant, as well as self-reported information about sponsors, joint sponsors, income, and other members of the household.

According to NIS data, an estimated 26.4 percent of documented nonrefugee noncitizens who have been in the country between 5 and 10 years have a sponsor who lives in a separate household and whose income and assets would be deemed to the noncitizen during the SNAP eligibility determination. To simulate the likely ineligibility of noncitizens subject to sponsor deeming, we randomly assigned 26.4 percent of noncitizens who arrived after 1997 and have been in the country less than 10 years are to be ineligible.

A prorated portion of ineligible noncitizens' income is assigned to the SNAP unit with which they are affiliated, and ineligible noncitizens' assets are included in the SNAP unit's countable assets.

To retain sample size, the eligibility assumptions for these noncitizens are implemented through unit replication and weighting adjustments that reflect the likelihood of eligibility for SNAP units of a certain composition. For example, if a SNAP unit has one noncitizen, the record for that SNAP unit is replicated. In the first copy of the record, the noncitizen is included in the SNAP unit and the unit weight is multiplied by the probability that the noncitizen is eligible for SNAP. In the second copy, the noncitizen is excluded from the SNAP unit and the unit weight is multiplied by the probability that the noncitizen is ineligible.

C. Identify Categorically Eligible SNAP Units

Certain SNAP units are categorically eligible for SNAP and are therefore not subject to SNAP income or asset limits. SNAP units are categorically eligible if (1) all members receive cash public assistance benefits, (2) a unit member participates in a narrowly targeted program funded with

federal TANF or State maintenance of effort (MOE) money, or (3) the unit qualifies under State broad-based categorical eligibility policies.

SNAP units in which all members receive SSI, cash TANF benefits or, in some places, general assistance have long been and remain categorically eligible for SNAP. These “pure public assistance” SNAP units are identified in the CPS ASEC using simulated TANF and SSI receipt along with reported general assistance receipt.

Many States provided narrowly targeted TANF/MOE-funded noncash services that confer categorical eligibility for SNAP to program participants. These services, which can include work support, child care, transportation, family preservation, and other short-term assistance, are generally provided to only a small number of people. Comprehensive data on participation in these types of programs is not available in the CSP ASEC or from other data sources, so categorical eligibility conferred through narrowly targeted programs is not simulated in the eligibility file.

Many States use a simple TANF/MOE-funded service, such as a brochure on assistance programs, to confer categorical eligibility on a broad group of people. States with BBCE policies establish income and asset limits, and sometimes unit composition constraints, for the program. State policies are used to simulate BBCE in the eligibility file. However, SNAP units eligible solely through BBCE are not included in the participation rates presented in Eslami et al. (2012) and Cunyngnam (2012). The participation rates presented in those reports include only individuals in SNAP units who pass all applicable federal SNAP income and asset tests or are pure public assistance.

Table IV.2 presents the State policies simulated for FY 2010. (Tables A.10a and A.10b present BBCE policies for FY 2008 and FY 2009, respectively.) Fourteen States—Alaska, Arkansas, Colorado, Hawaii, Indiana, Iowa, Kansas, Missouri, Nebraska, South Dakota, Tennessee, Utah, Virginia, and Wyoming—did not have BBCE during FY 2010. Seven States—Florida, Kentucky,

Table IV.2. State Broad-Based Categorical Eligibility Income, Asset, and Unit Composition Requirements, FY 2010

State(s)	Unit Composition	Asset Limit	Income Limit	
			Gross	Net
Alabama, Illinois, Ohio, South Carolina, West Virginia, Kentucky (second half)	Elderly or disabled	None	200	None
	All other	None	130	None
Arizona, Connecticut, Oregon, Maine (second half) New Jersey (second half)	All units	None	185	None
California	Child with elderly or disabled	None	None	100
	Other units with child	None	130	100
Delaware, District of Columbia, Michigan, Nevada, Washington, Wisconsin, Florida (second half), North Carolina (second half)	All units	None	200	None
Georgia	Pure elderly or disabled	None	200	None
	All other	None	130	None
Idaho	Elderly or disabled	None	200	100
	All other	None	130	100
Maine (first half)	Child (includes 18 and in HS) and caretaker	None	185	None
Maryland	Child (includes 18-19 and in HS)	None	200	None
Massachusetts	Child (includes 18) and caretaker, elderly, or disabled	None	200	None
	All other	None	130	100
Montana (first half)	Elderly or disabled	None	None	100
	All other	None	185	100
Montana (second half)	All units	None	200	100
Minnesota	Elderly or disabled	\$7,000 for financial assets	165	None
	All other		130	None
Mississippi (second half)	All units	None	130	None
New Hampshire	Child under 22 and caretaker	None	185	None
New Mexico (second half)	All units	None	165	None
New York	Elderly or disabled or dependent care expenses	None	200	None
	All other	None	130	None
North Dakota	All units	None	None	100
Oklahoma (second half)	Elderly or disabled	None	None	None
	All other	None	130	None
Pennsylvania	Elderly or disabled	None	200	None
	All other	None	160	None
Rhode Island	Elderly or disabled	None	200	None
	All other	None	185	None
Texas	All units	\$5,000 (exclude \$15,000 FMV from one vehicle)	165	None
Vermont	All units	None	185	100

Louisiana, Mississippi, New Jersey, New Mexico, and North Carolina—implemented a BBCE policy and two more—Maine and Montana—changed their BBCE policy during FY 2010.

D. Determine Income Eligibility

To meet federal income limits, SNAP units without an elderly or disabled member must have gross countable income no greater than 130 percent of the HHS poverty guideline, and net income no greater than 100 percent of the HHS poverty guideline. SNAP units with an elderly or disabled member only face the net income limit of 100 percent of the HHS poverty guideline. SNAP gross and net income screens are presented in Tables IV.3 and A.11).

Table IV.3. SNAP Maximum Allowable Gross and Net Monthly Income Eligibility Standards, FY 2010

SNAP Unit Size	Gross Income (\$)			Net Income (\$)		
	48 Contiguous States, Guam, and the Virgin Islands	Alaska	Hawaii	48 Contiguous States, Guam, and the Virgin Islands	Alaska	Hawaii
1	1,174	1,466	1,350	903	1,128	1,039
2	1,579	1,973	1,816	1,215	1,518	1,397
3	1,984	2,480	2,282	1,526	1,908	1,755
4	2,389	2,987	2,748	1,838	2,298	2,114
5	2,794	3,494	3,214	2,150	2,688	2,472
6	3,200	4,001	3,679	2,461	3,078	2,830
7	3,605	4,508	4,145	2,773	3,468	3,189
8	4,010	5,015	4,611	3,085	3,858	3,547
Each Additional Member	406	507	466	312	390	359

Source: U.S. Department of Agriculture

Net income is calculated by subtracting allowable deductions from gross income. Deductions include a standard deduction given to all SNAP units and deductions for earned income, dependent care expenses, medical expenses (for elderly or disabled individuals), child support payments, and excess shelter expenses, when applicable. The CPS ASEC does not include data on expenses necessary to calculate net income, so net income is estimated with an equation based on SNAP QC data. Net income equation results are presented in Tables IV.4 and A.12.

E. Impute Asset Eligibility

To meet federal income limits, non-categorically eligible SNAP units without an elderly or disabled member must have gross countable income no greater than 130 percent of the HHS

poverty guideline, and net income no greater than 100 percent of the HHS poverty guideline. Non-categorically-eligible SNAP units with an elderly or disabled member only face the net income limit of 100 percent of the HHS poverty guideline.

The federal asset limit for non-categorically eligible SNAP units without an elderly or disabled member is \$2,000. The federal asset limit for non-categorically eligible SNAP units with an elderly or disabled member was \$3,000 through FY 2011.

Table IV.4. SNAP Net Income Regression Equation Results, FY 2010

Explanatory Variable	Coefficients	Explanatory Variable	Coefficients
Constant	-270.36963 *	Gross income as percent of poverty	-2.52623 *
Gross income minus standard and earned income deductions	0.21931	In Alaska	-85.12507 *
No housing expenses	179.17704 *	In Hawaii	57.68911 *
Maximum allowable shelter expense deduction	-0.06719 *	In the Northeast region	-146.45463 *
Earned income	-0.15939 *	In the Mid-Atlantic region	0.20187
TANF income	0.06934 *	In the Southeast region	53.3572 *
TANF income squared	-0.00003	In the Midwest region	-18.81100 *
SSI income	-0.06404 *	In the Southwest region	62.62352 *
SSI income squared	0.00009 *	In the Mountain Plains region	16.23999 *
Gross income	0.92035 *	Participating in MFIP	80.11777 *
Gross income squared	0.00001 *	SNAP unit size	-36.86257 *
Gross income between \$101 and \$200	133.82089 *	Member under age 60 and receiving SSI	33.06993 *
Gross income between \$201 and \$300	123.32331 *	Member age 60 or older and receiving SSI	31.94422 *
Gross income between \$301 and \$400	83.55997 *	Elderly member	10.94200 *
Gross income between \$401 and \$500	35.86379 *	Single adult with child(ren)	-7.66022 *
R ²	0.8310	Multiple adults	-10.23457 *
Adjusted R ²	0.8308	Sample Size	37,777

*Indicates significance at the .05 level using a two-tailed t-test.

and vehicles used to produce income, as a home, to transport a disabled member, or to carry fuel or water is not included in countable assets. As many vehicles as there are adults in the SNAP unit, along with a vehicle for each teenager under age 18 who drives it to work, school, or training, are

counted at the vehicles' FMV in excess of \$4,650. Remaining vehicles are valued at the higher of the vehicles' FMV in excess of \$4,650, or equity.

States may adopt their own rules regarding which, if any, vehicles to count toward the SNAP asset limits by aligning their SNAP vehicle rules with those in place for other programs, such as TANF or child care assistance provided those rules are not more restrictive than the federal SNAP vehicle rules. All but two States, North Dakota and Washington, have adopted their own vehicle rules. The State vehicle policies simulated are presented in Tables IV.5, A.13a, and A.13b.

Table IV.5. State Policies for Counting Vehicle Assets, FY 2010

	State(s)
Federal rules (Group 1)	North Dakota, Washington
Exempt all vehicles (Group 2)	Alabama, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Indiana, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Mississippi, Missouri, Montana, New Jersey, New Mexico, North Carolina, Ohio, Tennessee, Utah, Virginia, West Virginia, Wisconsin
Exempt one vehicle (Group 3)	Arkansas, Illinois, Iowa, Maine, Nevada, Pennsylvania, South Dakota
Exempt one vehicle per driver (Group 4)	Alaska, New York, South Carolina
Exempt one vehicle per adult (Group 5)	Idaho, New Hampshire
Exempt one vehicle per adult up to 2 vehicles (Group 6)	Rhode Island, Vermont
Exempt one vehicle per driver then \$5,000 equity for remaining vehicles	Oklahoma
Exempt \$7,500 FMV from each vehicle	Minnesota
Exempt \$15,000 FMV from one vehicle	Texas
Exempt \$12,000 FMV from one vehicle	Nebraska
Exempt \$10,000 equity from combined value of all vehicles	Oregon
Exempt two vehicles for a unit with a married couple, one vehicle for other units	Wyoming

Because assets are not reported in the CPS ASEC, the probability that income-eligible SNAP units are asset eligible is predicted with a set of equations based on a SIPP-based microsimulation model. This is done in several steps. First, the SIPP-based model is used to simulate the asset rules in place in FY 2010 in each State or group of States. Each observation, or SNAP unit, in the SIPP-

based model is subjected to each asset test, including each of the State vehicle rules under the federal asset test and each of the State BBCE rules. SNAP units are given two flags for each asset test: one if they are income-eligible under federal rules or meet the income and unit composition requirements of State BBCE rules, whichever is applicable, and another if they pass the associated asset test. The two flags for each asset test, along with additional data on socioeconomic characteristics, are output to a SIPP data extract. Next, the data extract is used to estimate a set of equations—one for each asset rule. Finally, the equations are used in the CPS-based eligibility file to predict the probability that SNAP units that are income eligible or meet their State’s BBCE income and unit composition criteria are asset eligible under their State’s vehicle or BBCE asset rule, respectively.

In FY 2010, all States maintained the same vehicle rules for the entire fiscal year. In previous years, some States have revised their policies mid-FY year. When that occurs, two sets of equations are estimated—one for the first half of the fiscal year and another for the second half. The two sets of equations are used to estimate SNAP eligibility in both the first and second half of the fiscal year and the results are combined to produce average monthly estimates for the full fiscal year. The SNAP asset equation coefficients are presented in Tables A.14a through A.14e.

F. Determine SNAP Benefit

SNAP benefits are calculated by subtracting 30 percent of a SNAP unit’s net income from the unit’s maximum benefit (Tables IV.6 and A.15). Eligible one- and two-person SNAP units are guaranteed a minimum benefit. Larger eligible SNAP units with net income high enough that they do not qualify for a positive benefit are simulated to be ineligible.

Table IV.6. Maximum and Minimum Monthly SNAP Benefits, FY 2010

	Contiguous United States	Alaska	Hawaii
Maximum Monthly SNAP Benefits by Unit Size			
1	\$200	\$239	\$314
2	367	438	575
3	526	627	824
4	668	797	1,046
5	793	946	1,243
6	952	1,135	1,491
7	1,052	1,255	1,648
8	1,202	1,434	1,884
Each Additional Member	150	179	236
Minimum Monthly SNAP Benefits by Unit Size			
1 – 2	\$16	\$19	\$25

Source: U.S. Department of Agriculture

V. ESTIMATE NUMBER OF SNAP PARTICIPANTS

Estimates of SNAP participants are derived from the SNAP QC database. The development of the SNAP QC database is described in Eslami et al. (2011). This chapter briefly summarizes some aspects of the file development and describes the participant estimation methodology.

A. SNAP QC Database

The SNAP QC database is an edited version of the raw data file generated by the SNAP Quality Control System and contains data on the demographic and economic characteristics of a sample of participating SNAP units. While most participating SNAP units are subject to sampling, some, such as those receiving benefits for a disaster, are excluded. In addition, certain sampled cases on the raw data file are excluded from the edited SNAP QC database. These include cases that were not subject to review, had incomplete reviews, were found to be ineligible, or had irresolvable data inconsistencies. Tables V.1 and A.16 show the number of cases sampled, dropped, and included in the edited file.

Table V.1. Number of Cases Sampled, Dropped from the Edited File, and Included on the Edited File, FY 2010

	Number
Cases sampled	59,870
Cases not subject to review	2,660
Cases deselected to correct for oversampling	0
Cases subject to review	57,210
Incomplete cases	3,987
Cases completed	53,223
SNAP units not eligible for a positive benefit	38
SNAP units not eligible for SNAP	791
SNAP units eligible for a positive benefit	52,394
SNAP units dropped due to inconsistencies	105
SNAP units on the final file	52,289

Source: FY 2010 SNAP Quality Control sample.

The SNAP QC database is weighted to match adjusted SNAP Program Operations totals for SNAP units, individuals, and benefits by State and month. The adjustments to the Program Operations totals are to exclude benefits issued (1) in response to a disaster and (2) to individuals found to be ineligible. The U.S. Department of Agriculture (USDA) provides data on the number of

SNAP units and individuals who received disaster benefits, the amount of benefits issued to those SNAP units, and the amount of additional disaster-related benefits issued to existing SNAP participants. The Program Operations totals are reduced by the disaster-related totals in the months and States in which the disaster relief occurred. The unweighted SNAP QC data file is used to calculate disqualification rates—the percentage that are either ineligible or eligible but not qualifying for a positive benefit—for SNAP units, individuals, and benefits. The benefit disqualification rate also takes into account over- and under-issuances to eligible SNAP units. The Program Operations totals are adjusted by the disqualification rates by State and month.

The identification of pure public assistance SNAP units is important because these units are categorically eligible for SNAP. This identification occurs during the SNAP QC data file development in a two-step process. First, coverage flags are assigned for SSI, TANF, and general assistance. SSI and general assistance cover only the person coded as receiving the income, whereas TANF can cover additional family members. Specifically, TANF received by the head of the SNAP unit or that person's spouse covers the head, spouse, and children; TANF received by a child of the head covers that child and other relatives; and, in child-only households, TANF received by anyone in the household covers all of the children. Second, SNAP units are identified as pure public assistance if everyone in the SNAP unit is covered by TANF, SSI, or general assistance, or if the SNAP unit head had TANF income and all adults were covered by TANF, SSI, or general assistance.

B. Estimate Participants for Participation Rate Numerator

Participants not included in the estimates of eligibles derived from the CPS-based eligibility file are excluded from the participation rate numerator. Specifically, the CPS ASEC does not include Guam and the U.S. Virgin Islands, so SNAP units from these territories are not included in estimates of participants. As discussed in section IV.C, the CPS ASEC also does not include data on participation in noncash TANF-funded programs that confer narrow categorical eligibility for

SNAP, so SNAP units not eligible under either federal rules or State BBCE rules are excluded from the rate numerator. In addition, the participation rates presented in Eslami et al. (2012) and Cunningham (2012) are limited to individuals eligible under federal rules, so SNAP units eligible solely through State BBCE policies are also dropped from the rate numerator in those reports.

To identify participating SNAP units that would not pass the federal income tests, the federal income limits are applied to all units that are not pure public assistance units. Those with gross income above the federal limits are excluded from the participant estimates. The SNAP QC data file does not include comprehensive data on participants' assets, so the probability that income-eligible units that are not pure public assistance would fail the SNAP federal asset test is predicted with an equation based on a SIPP-based microsimulation model. The asset equation coefficients are presented in Table V.2.

Table V.2. SNAP Asset Ineligibility Equation Coefficients, FY 2010

	Model Coefficient
Midwest	1.510
South	1.056
West	0.356
Very generous State BBCE policy	2.121
State asset test excludes all vehicles	1.966
State asset test excludes most vehicles	1.305
Very generous State BBCE policy and State asset test excludes all vehicles	0.198
One or two children under age 5 in SNAP unit	1.450
One or two children age 5-17 in SNAP unit	0.611
One or two children of mixed ages in SNAP unit	0.853
More than two children in SNAP unit	0.487
At least one elderly person in SNAP unit	1.114
Single adult female and child(ren) in SNAP unit	0.482
Unit size	1.265
Unit size squared	0.989
Age of SNAP unit head	0.972
Age of SNAP unit head squared	1.001
Log earnings relative to poverty line	0.709
Log SSI relative to poverty line	0.387
Log Social Security income relative to poverty line	0.641
Log asset income relative to poverty line	0.936
Log shelter cost relative to poverty line	1.055
Person in SNAP unit age 18-59 is not in labor force	1.337
Person in SNAP unit age 18-59 works full time	0.935
No earnings	1.240
No SSI	46.42
No Social Security income	1.670
No asset income	0.250
No shelter cost	1.230
Midwest and very generous State BBCE policy	2.287
South and very generous State BBCE policy	1.904
West and very generous State BBCE policy	8.265
Constant	0.000

Source: August 2009 SIPP data

VI. ESTIMATE SNAP PARTICIPATION RATES

SNAP participation rates are calculated by dividing the estimated average monthly number of participants by the estimated average monthly number of eligible individuals. Eslami et al. (2012) estimate national participation rates for individuals, households (SNAP units), and benefits as well as for various socioeconomic subgroups. Most subgroups for which participation rates are estimated are self-explanatory; however, several require a brief description.

Elderly living alone. These elderly individuals are in a one-person SNAP unit but may live in a household with other people.

Citizen children living with noncitizen adults. The noncitizen adults do not need to be SNAP participants.

Household composition. The composition category “Married Household Head” includes SNAP units in which one of the spouses is not participating in SNAP. It also includes married couples in which one or both spouses are under age 18.

Earnings. In the SNAP QC database, SNAP units with earnings include those that do not report earned income in the month they are reviewed, but have other indicators of earnings. (See Cunyngnam et al. [2012] for more details.)

TANF. In the QC data, more participating SNAP units in California are recorded as receiving cash TANF benefits than seem to be indicated by administrative data from the California Department of Social Services. To adjust for this apparent over-reporting, a small number of California SNAP units in the SNAP QC database who do not appear to be likely TANF recipients are recoded as not receiving TANF.

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APPENDIX A
TABLES FOR 2008 AND 2009

Table A.1. Unweighted Sample Sizes for the CPS ASEC, FY 2008 and FY 2009

Fiscal Year	CPS ASEC	Sample Size	CPS ASEC	Sample Size
2008	2008	75,872	2009	76,185
2009	2009	76,185	2010	76,260

Table A.2. Percentage of Undocumented Immigrants in Noncitizen Population, FY 2008 and FY 2009

State or Group of States	2008	2009
Alabama	70.2	87.7
Alaska	27.0	21.0
Arizona	69.8	70.4
Arkansas	66.6	69.6
California	43.0	43.9
Colorado	70.4	64.3
Connecticut	44.4	45.2
Delaware	67.5	64.5
District Of Columbia	48.6	49.8
Florida	54.2	51.5
Georgia	69.7	69.4
Hawaii	35.5	39.3
Idaho	64.1	66.9
Illinois	40.6	52.6
Indiana	71.1	76.6
Iowa	57.7	52.1
Kansas	57.0	57.8
Kentucky	35.6	37.7
Maryland	54.1	54.0
Massachusetts	42.3	41.7
Michigan	37.0	40.9
Minnesota	43.3	47.5
Missouri	35.9	42.0
Nebraska	66.1	57.0
Nevada	81.1	82.3
New Jersey	52.2	51.5
New Mexico	49.2	59.4
New York	38.3	34.7
North Carolina	72.2	68.3
Ohio	42.0	49.6
Oklahoma	62.4	62.4
Oregon	56.5	65.2
Pennsylvania	42.7	43.8
Rhode Island	38.0	40.6
South Carolina	61.8	66.9
South Dakota	46.1	47.7
Tennessee	69.0	68.3
Texas	49.7	52.9
Utah	68.0	69.3
Virginia	55.2	57.0
Washington	39.1	41.7
Wisconsin	49.9	57.1
Wyoming	68.0	68.3
Maine, New Hampshire, Vermont, North Dakota, West Virginia, Mississippi, Louisiana, Montana	39.6	48.5

Source: CPS ASEC and unpublished estimates prepared for the Pew Hispanic Center by Jeffrey Passel

Table A.3. Employment Estimates, Targets, and Simulated Results, 2007, 2008, and 2009

	Number Employed (000s)				Percent difference (Target - Simulated)
	BLS	CPS ASEC	Target	Simulated	
2007					
January	144,275	n.a	141,062	140,322	-0.5
February	144,479	n.a	141,261	140,642	-0.4
March	145,323	n.a	142,086	141,565	-0.4
April	145,297	n.a	142,061	141,687	-0.3
May	145,864	n.a	142,615	142,696	0.1
June	146,958	n.a	143,685	143,584	-0.1
July	147,315	n.a	144,034	143,987	0.0
August	146,406	n.a	143,145	143,066	-0.1
September	146,448	n.a	143,186	143,089	-0.1
October	146,743	n.a	143,475	143,372	-0.1
November	147,118	n.a	143,841	143,983	0.1
December	146,334	n.a	143,075	143,083	0.0
Annual Total	1,752,560	1,713,526	1,713,526	1,711,075	-0.1
2008					
January	144,607	n.a	140,430	139,676	-0.5
February	144,550	n.a	140,375	139,612	-0.5
March	145,108	n.a	140,917	140,777	-0.1
April	145,921	n.a	141,706	141,618	-0.1
May	145,927	n.a	141,712	141,533	-0.1
June	146,649	n.a	142,413	142,460	0.0
July	146,867	n.a	142,625	142,715	0.1
August	145,909	n.a	141,695	141,763	0.0
September	145,310	n.a	141,113	141,067	0.0
October	145,543	n.a	141,339	141,319	0.0
November	144,609	n.a	140,432	140,267	-0.1
December	143,350	n.a	139,210	138,642	-0.4
Annual Total	1,744,350	1,693,969	1,693,969	1,691,448	-0.1
2009					
January	140,436	n.a	137,278	137,123	-0.1
February	140,105	n.a	136,954	137,091	0.1
March	139,833	n.a	136,688	136,676	0.0
April	140,586	n.a	137,424	137,415	0.0
May	140,363	n.a	137,206	137,190	0.0
June	140,826	n.a	137,659	137,316	-0.2
July	141,055	n.a	137,883	137,992	0.1
August	140,074	n.a	136,924	136,608	-0.2
September	139,079	n.a	135,951	135,346	-0.4
October	139,088	n.a	135,960	135,557	-0.3
November	139,132	n.a	136,003	135,433	-0.4
December	137,953	n.a	134,850	133,310	-1.1
Annual Total	1,678,530	1,640,779	1,640,779	1,637,057	-0.2

Sources: Bureau of Labor Statistics Labor Force Statistics from the CPS and CPS ASEC

Table A.4. Average Weekly Unemployment Compensation, 2008 and 2009

State	2008	2009
Alabama	196	208
Alaska	202	235
Arizona	218	220
Arkansas	265	282
California	307	311
Colorado	341	361
Connecticut	322	340
Delaware	257	262
District of Columbia	291	303
Florida	238	238
Georgia	273	283
Hawaii	413	423
Idaho	272	275
Illinois	312	328
Indiana	298	307
Iowa	302	320
Kansas	316	354
Kentucky	300	308
Louisiana	209	231
Maine	265	282
Maryland	305	311
Massachusetts	391	419
Michigan	300	309
Minnesota	347	360
Mississippi	183	196
Missouri	244	256
Montana	255	270
Nebraska	241	249
Nevada	292	317
New Hampshire	272	283
New Jersey	377	396
New Mexico	278	300
New York	307	315
North Carolina	287	307
North Dakota	286	311
Ohio	303	321
Oklahoma	272	295
Oregon	302	313
Pennsylvania	335	352
Rhode Island	370	383
South Carolina	240	250
South Dakota	239	254
Tennessee	221	226
Texas	303	325
Utah	312	321
Vermont	294	306
Virginia	282	304
Washington	355	402
West Virginia	242	272
Wisconsin	273	288
Wyoming	308	347

Source: U.S. Department of Labor, Unemployment Insurance Data Summary

Table A.5a. State SSI Supplements for Individuals and Couples Living Independently, 2008

State	State SSI Supplements by Unit Type (\$)			
	Elderly Individual	Disabled Individual	Elderly Couple	Disabled Couple
Alaska	362	362	528	528
California	233	233	568	568
Colorado	25	25	368	368
Connecticut	168	168	256	256
Idaho	32	32	0	0
Maine	10	10	15	15
Massachusetts	129	114	202	180
Michigan	14	14	28	28
Minnesota	81	81	111	111
Nebraska	7	7	4	4
Nevada	36	0	74	0
New Hampshire	61	61	28	28
New Jersey	31	31	25	25
New York	87	87	104	104
Oklahoma	46	46	92	92
Oregon	2	2	0	0
Pennsylvania	27	27	44	44
Rhode Island	57	57	109	109
South Dakota	15	15	15	15
Utah	0	0	5	5
Vermont	52	52	99	99
Washington	46	46	92	92
Wisconsin	84	84	132	132
Wyoming	25	25	56	56

Source: State Assistance Programs for SSI Recipients, January 2008

Note: States not listed do not provide an SSI supplement.

Table A.5b. State SSI Supplements for Individuals and Couples Living Independently, 2009

State	State SSI Supplements by Unit Type (\$)			
	Elderly Individual	Disabled Individual	Elderly Couple	Disabled Couple
Alaska	362	362	528	528
California	233	233	568	568
Colorado	25	25	387	387
Connecticut	168	168	275	275
Idaho	53	53	53	53
Maine	10	10	15	15
Massachusetts	129	114	202	180
Michigan	14	14	28	28
Minnesota	81	81	111	111
Nebraska	5	5	0	0
Nevada	36	0	74	0
New Hampshire	40	40	41	41
New Jersey	31	31	25	25
New York	87	87	104	104
Oklahoma	46	46	92	92
Oregon	2	2	0	0
Pennsylvania	27	27	44	44
Rhode Island	40	40	79	79
South Dakota	15	15	15	15
Utah	0	0	5	5
Vermont	52	52	99	99
Washington	46	46	92	92

Source: State Assistance Programs for SSI Recipients, January 2009

Note: States not listed do not provide an SSI supplement.

Table A.6a. State SSI Control and Calibration Totals, by Age, 2008

State	Control Totals			Calibration Totals		
	Under 18	18 to 64	65 or older	Under 18	18 to 64	65 or older
Alabama	29,280	105,725	31,738	28,949	111,994	32,229
Alaska	1,188	7,370	3,056	1,081	8,673	3,100
Arizona	19,023	59,357	24,685	19,692	67,212	23,067
Arkansas	22,914	59,158	17,000	22,519	59,896	17,277
California	105,820	612,755	553,341	104,285	574,232	537,760
Colorado	7,706	37,560	14,625	7,389	43,350	15,400
Connecticut	7,336	35,033	13,007	6,559	42,733	13,236
Delaware	3,486	8,822	2,489	3,538	9,850	2,345
District of Columbia	4,488	14,151	4,188	4,534	13,878	4,341
Florida	84,349	211,710	148,781	81,264	221,679	151,081
Georgia	37,511	125,301	49,991	35,815	131,842	52,075
Hawaii	1,606	13,495	8,509	1,755	13,504	8,773
Idaho	4,728	16,430	3,497	4,275	14,922	3,026
Illinois	45,149	161,242	59,237	46,266	160,597	59,379
Indiana	23,620	71,932	12,542	24,483	79,890	8,561
Iowa	7,684	30,823	6,927	8,490	32,041	6,049
Kansas	7,879	27,512	6,512	7,876	27,812	3,511
Kentucky	29,715	124,211	32,883	29,785	123,495	34,212
Louisiana	32,711	99,407	33,336	31,549	109,005	33,749
Maine	3,736	24,912	5,267	3,770	23,789	5,280
Maryland	16,163	59,664	24,899	15,450	58,385	25,522
Massachusetts	20,972	112,166	49,317	21,368	110,572	47,644
Michigan	39,095	156,207	37,279	40,759	156,273	36,838
Minnesota	12,297	50,591	17,785	13,072	48,787	18,479
Mississippi	22,946	72,069	27,440	21,980	73,793	26,899
Missouri	21,293	83,822	19,334	21,202	78,510	18,492
Montana	2,260	11,215	2,558	2,377	12,631	2,540
Nebraska	3,781	16,002	3,944	3,988	16,063	2,398
Nevada	6,817	19,930	9,932	6,927	21,805	10,671
New Hampshire	2,213	11,687	1,911	2,074	12,071	1,785
New Jersey	23,824	83,327	52,600	25,715	84,543	55,354
New Mexico	8,515	33,172	15,918	8,411	33,157	15,418
New York	77,436	347,026	233,803	76,416	350,529	241,969
North Carolina	40,565	122,169	45,675	42,600	125,118	44,853
North Dakota	1,044	5,312	1,676	1,154	5,341	1,615
Ohio	45,911	181,397	37,965	42,719	181,060	36,800
Oklahoma	16,194	56,758	14,877	16,293	59,524	14,851
Oregon	8,891	43,430	14,033	9,488	45,508	14,795
Pennsylvania	66,304	212,426	60,967	65,299	206,344	62,734
Rhode Island	4,172	20,088	7,288	4,165	20,457	7,521
South Carolina	19,630	64,320	23,192	21,078	68,174	22,562
South Dakota	2,199	7,874	3,010	2,149	8,146	2,419
Tennessee	23,859	107,950	33,342	25,487	109,947	30,830
Texas	112,875	288,596	164,810	117,236	299,018	172,388
Utah	4,803	16,383	4,257	3,939	17,759	3,342
Vermont	1,783	10,102	2,468	1,739	8,820	2,625
Virginia	23,222	84,215	34,385	22,659	90,775	35,939
Washington	16,063	80,232	28,679	17,193	89,290	28,330
West Virginia	9,233	58,631	11,824	9,621	54,661	7,476
Wisconsin	18,475	64,754	15,785	18,640	64,338	16,320
Wyoming	810	4,261	832	819	4,450	641

Source: SSA's SSI Annual Statistical Report, 2008

Table A.6b. State SSI Control and Calibration Totals, by Age, 2009

State	Control Totals			Calibration Totals		
	Under 18	18 to 64	65 or older	Under 18	18 to 64	65 or older
Alabama	29,956	108,632	30,732	28,255	112,443	30,177
Alaska	1,264	7,671	3,071	1,322	8,295	2,993
Arizona	19,943	60,882	25,305	21,715	63,181	25,497
Arkansas	25,203	61,356	16,368	26,421	63,024	16,305
California	109,409	601,769	538,852	109,954	605,822	537,378
Colorado	8,120	38,856	14,975	8,234	38,801	14,419
Connecticut	7,603	35,387	13,280	6,248	38,914	13,176
Delaware	3,567	9,199	2,533	3,713	9,673	2,224
District of Columbia	4,485	14,910	4,180	4,786	14,618	4,080
Florida	88,993	221,055	153,525	91,548	222,133	155,438
Georgia	39,211	131,234	49,793	39,897	132,898	51,355
Hawaii	1,697	14,037	8,532	1,818	14,082	8,528
Idaho	5,085	17,336	3,627	4,685	17,152	3,427
Illinois	45,232	164,513	59,647	43,200	167,682	58,043
Indiana	24,832	75,217	12,742	26,911	76,079	12,599
Iowa	7,903	31,798	6,908	7,967	31,237	4,761
Kansas	8,335	29,114	6,596	7,813	29,607	5,174
Kentucky	30,326	126,697	32,459	32,620	124,371	30,121
Louisiana	34,238	102,717	32,735	34,902	106,723	32,623
Maine	3,867	25,469	5,223	3,981	24,799	5,209
Maryland	16,435	61,739	24,756	16,582	62,349	25,152
Massachusetts	21,880	114,949	49,780	21,167	121,416	49,680
Michigan	40,840	164,273	37,870	41,690	164,639	37,425
Minnesota	12,620	52,464	18,163	12,640	52,735	18,622
Mississippi	23,867	73,788	26,461	25,916	74,356	26,188
Missouri	21,796	87,179	19,157	20,157	86,459	20,089
Montana	2,436	11,695	2,563	2,498	13,720	2,343
Nebraska	4,010	16,684	3,922	3,340	17,121	3,763
Nevada	7,232	21,116	10,244	7,006	20,356	10,816
New Hampshire	2,274	12,456	1,898	2,504	12,965	2,082
New Jersey	24,351	85,606	53,109	25,035	85,913	53,898
New Mexico	8,917	34,132	16,061	8,507	31,168	16,283
New York	80,169	353,900	233,824	80,946	356,328	236,554
North Carolina	41,328	126,989	45,012	41,270	128,660	44,637
North Dakota	1,084	5,419	1,636	794	5,426	1,659
Ohio	47,459	188,026	38,396	46,706	193,955	37,836
Oklahoma	17,094	58,926	14,725	17,894	59,655	15,048
Oregon	9,403	46,355	14,646	9,201	46,332	13,487
Pennsylvania	67,969	217,878	61,104	57,199	214,773	61,283
Rhode Island	4,361	20,170	7,051	4,254	19,504	7,358
South Carolina	20,100	66,585	22,654	20,300	69,407	20,881
South Dakota	2,328	8,207	3,007	2,146	8,711	3,096
Tennessee	24,782	111,801	32,742	23,469	101,998	31,658
Texas	120,467	303,169	166,293	126,673	318,097	169,922
Utah	5,093	17,131	4,380	4,836	18,838	4,180
Vermont	1,805	10,390	2,495	1,835	9,911	2,563
Virginia	23,542	86,446	34,290	23,330	87,932	34,007
Washington	16,719	84,189	29,799	16,147	83,101	30,219
West Virginia	9,277	58,845	11,725	9,646	56,396	10,805
Wisconsin	19,681	68,032	15,790	23,741	70,947	14,592
Wyoming	903	4,452	813	840	4,308	855

Source: SSA's SSI Annual Statistical Report, 2009

Table A.7. National SSI Control and Calibration Totals, by Income Source, 2008 and 2009

	Control Totals			Calibration Totals		
	Under 18	18 to 64	65 or older	Under 18	18 to 64	65 or older
2008						
All	1,153,844	4,333,096	2,033,561	1,155,891	4,386,244	2,024,502
No Other Income	854,550	2,579,451	758,971	1,137,202	3,017,303	733,078
Earnings	2,798	241,897	27,843	1,746	211,259	110,805
Social Security	83,236	1,375,160	1,154,164	15,329	806,952	1,304,495
2009						
All	1,199,788	4,451,288	2,025,610	1,204,256	4,499,010	2,020,506
No Other Income	890,620	2,674,710	772,774	1,185,766	2,977,443	728,335
Earnings	2,431	234,485	27,264	417	248,359	116,042
Social Security	87,207	1,399,368	1,135,074	15,965	911,793	1,272,824

Source: SSA's SSI Annual Statistical Reports

Table A.8. TANF Asset Equation Coefficients

(All variables refer to TANF unit)	Alabama	Alaska	Arizona	Arkansas	California
Unit size	0	-0.90088996	0	0	-1.2317421
Homeowner	-0.96566704	-0.76609588	-0.83498904	-0.86321115	-0.80316677
Multiple TANF units in household	0	0	0	0.48055606	0
Head is African American/Black	0.79491412	0.52751312	0.67111232	0.6745574	0.53648415
Head is Asian	0	0	0	-0.44320818	0
Head is Hispanic	0.94270922	1.0418497	0.92682563	0.46982582	0.92508901
Head is other race	0	0	0.5170459	0	0
Number age 0 to 4	0	1.052204	0	0.099766424	1.4244403
Number age 5 to 17	0	0.91852855	0	0	1.3225354
Number of nonelderly adults	-0.57514387	0	-0.49014857	-0.71149142	0.35364486
Number of high school graduates	-0.70999801	0	-0.30202053	-0.5136438	-0.39698969
Number not in the labor force	-0.32469545	0	-0.35737234	0	0
Number of never-married adults	0.36359495	0.41480167	0.4576799	0.61760958	0.33092528
In North Central	0.54665344	0.36430933	0.46669093	0	0.53807335
In South	1.4035789	1.1311411	1.2076975	0.28701063	0.88420719
In West	0.8777809	0.63164802	0.68828205	0	0.34014746
Gross income	0	0	0	0	-0.80395575
Gross income squared	-258.95927	182.24242	0	0	0
Gross income to the fourth power	0	0	0	-39060841	0
Gross income by HS graduates	0.67621563	0	0	0	0.53065916
Earnings	0	0	0	0	0.6912013
Earnings to the third power	0	0	-567043.19	0	0
Earnings to the fourth power	0	-61463426	230712630	0	-52818209
Earnings by high school graduates	-0.47159273	0	0	0	-0.32403146
Dividend income	0	0	76.725668	0	0
Dividend income squared	100093.54	197760.15	0	0	195705.86
Dividend income by HS graduates	-84.451085	-71.929585	-124.13082	0	-68.599866
Dividend income by interest income	0	-3008.7523	0	88.597725	-2824.7282
Dividend income by homeowner	0	0	0	-39.019948	0
Interest income	-177.42919	-80.300544	-153.47555	-121.69631	-84.608318
Interest income squared	103372.35	91107.691	102165.18	143901.55	98290.64
Interest income by HS graduates	57.694465	0	46.275675	0	0
Rental income squared	100017.66	124216.4	123217.35	0	87776.081
Rental income to the third power	-110086300	-135869210	-134073580	0	-96049868
Rental income by homeowner	-24.160284	-28.804503	-29.561574	0	-21.38058
Income eligible	0	0	-1.0523729	0	0
Income eligible by unit size	0	0.17196758	0.14342531	0	0
Income eligible by Asian head	0	0	-0.47972072	0	-0.427336
Income eligible by other race head	0.81130921	0.67312569	0	0.52583647	0
Income eligible by age 5 to 17	0.14322659	0	0	0	0
Income eligible by not in labor force	0.67099801	0	0.69322501	0.32522335	0
Income eligible by South	-0.70584078	-0.57807122	-0.6986194	-0.23439994	0
Income eligible by West	-0.83664956	-0.5586755	-0.50774905	-0.35347117	0
Income eligible by gross income	-0.8454017	-0.8420443	0	0	0
Income eligible by earnings	0.96649416	0.68164771	0.5033234	0	0
Income eligible by dividend income	50.386796	45.194619	35.118734	0	38.30631
Income eligible by interest income	-20.512815	0	-20.185124	0	0
Constant	3.561815	2.5818309	3.3668913	3.5181355	3.39835

Table A.8 (continued)

(All variables refer to TANF unit)	Colorado	Connecticut	Delaware	District of Columbia	Florida
Unit size	-1.1022442	-1.3581831	0	0	0
Unit size squared	0	0	0	12.453946	0
Homeowner	-0.67340929	-0.83055215	-0.91707913	-0.7739005	-0.78087832
Multiple TANF units in household	0	0	0.40643229	0	0
Head is African American/Black	0.64109407	0.38183727	0.55753204	1.0694493	0.65551325
Head is Asian	2.3919928	-0.37895565	0	0	0
Head is Hispanic	1.1053202	0.79676172	0.31805088	0.81076968	0.59044217
Head is other race	0.84708265	0	0	0.53627892	0
Number age 0 to 4	1.3433253	1.5697989	0	0	0
Number age 5 to 17	1.0062548	1.4691105	0	0	0
Number of nonelderly adults	0	0.35147408	-0.581525	-0.58575988	-0.65657475
Number of high school graduates	0	-0.57133401	-0.80651955	-0.45648266	-0.40569606
Number not in the labor force	0	0	-0.23035835	0	0
Number of never-married adults	0	0.55271394	0.39693415	0.34783357	0.5342689
In North Central	0	0	0.79165249	0.63474896	0.39725836
In South	0.30795151	0.50843089	0.35324909	0.87188166	0.49393072
In West	0	0	0	0.36620581	0
Number receiving general assistance	0	0	1.6583714	0	0
Gross income	0	-0.37250877	-0.78764502	0	0
Gross income by HS graduates	0	0.3220133	0.40184907	0	0
Gross income by interest income	0	-31.906586	-74.150523	0	-58.774435
Earnings	0.86463677	0	0	0	0
Earnings squared	-349.46538	0	0	0	0
Earnings to the fourth power	0	-30169140	-27266946	0	-29661273
Dividend income	0	44.547659	0	0	0
Dividend income squared	21225.895	301873.76	896514.41	233798.29	230122.66
Dividend income by HS graduates	-5.6027149	-71.941235	-657.41972	-79.737774	-53.193181
Dividend income by interest income	0	-2519.545	1137.5173	-3300.8209	-1328.8116
Dividend income by homeowner	-11.219581	-34.953747	0	0	0
Interest income	-58.823169	0	0	-167.8562	0
Interest income squared	63769.288	107665	0	94045.302	50011.202
Interest income by HS graduates	0	0	0	55.921691	0
Interest income by homeowner	0	-37.340256	0	0	-75.995383
Rental income squared	0	0	0	81916.421	0
Rental income to the third power	-3671335	-8323015.1	0	-89179925	14422952
Rental income by HS graduates	0	0	0	0	-6.3099246
Rental income by homeowner	0	0	0	-20.235571	0
Income eligible	-1.4676757	0	0	0	0
Income eligible by unit size	0.25389374	0	0	0	0
Income eligible by black head	0	0	0	-0.60130609	0
Income eligible by Asian head	-2.9493763	0	-1.0413548	-0.43062421	-0.65803306
Income eligible by other race head	0	0	0.56113144	0	0
Income eligible by age 0 to 4	0	0	0	0	0.17210944
Income eligible by not in labor force	0.29768687	0.16271968	0.406577	0	0
Income eligible by never married	1.2694414	0	0	0	0
Income eligible by North Central	0	0.38660268	-0.54443737	0	0
Income eligible by West	0	0	-0.21659571	0	0
Income eligible by dividend income	0	0	0	46.580169	0
Income eligible by interest income	0	-59.333589	-93.250595	-18.447263	0
Constant	4.633912	3.9085087	3.5146379	3.0236547	3.1264675

Table A.8 (continued)

(All variables refer to TANF unit)	Georgia	Hawaii	Idaho	Illinois	Indiana	Iowa
Homeowner	-0.8727851	-0.7362252	-0.5752152	-0.8216945	-0.9987295	-0.6636247
Multiple TANF units in household	0.43033192	0	0	0	0.38120286	0
Head is African American/Black	0.3273432	1.7494916	0	0.49543665	0.45137812	1.6192492
Head is Asian	0	0	-0.5592431	-0.4869259	0	-0.4939917
Head is Hispanic	0.39589283	0.98867342	0.29776067	0.68851668	0.41136735	0.88677621
Head is other race	0	0.96049865	0	0.51440736	0	0.62390596
Number age 0 to 4	0	0.28163371	0	0.20669174	0	0.28088702
Number of nonelderly adults	-0.3801173	-0.4949808	-0.536393	-0.6076811	-0.5782092	-0.6355759
Number of high school graduates	-0.7155626	0	-0.6053304	-0.590644	-0.7801013	-0.3937706
Number not in the labor force	-0.4796262	0	0	0	-0.2630174	0
Number of never-married adults	0.33770922	0	0.2526078	0.48643231	0.40307632	0.53537353
In North Central	0.78990358	0	0.20649279	0	0.67804252	0
In South	0.46603574	0.52341581	0.26334119	0.66518384	0.43414217	0.48167746
In West	0	0	0	0.27901081	0	0
Number receiving general assistance	1.7708342	0	1.7741033	0	0	0
Gross income	-0.4196846	0	0	0	0	0
Gross income squared	-248.48555	0	0	0	-367.4984	0
Gross income by HS graduates	0.33902272	0	0.22423613	0	0.46270918	0.14077301
Gross income by interest income	-84.506961	0	0	-33.814474	-70.738319	-40.455786
Gross income by homeowner	0	0	-0.5965444	0	0	0
Earnings	0	0	0	0	0	0
Earnings squared	0	0	0	0	0	0
Earnings to the third power	0	0	-168029.88	0	0	0
Earnings by high school graduates	0	0	0	0	-0.1372642	0
Earnings by homeowner	0	0	0.47833633	0	0	0
Dividend income	-148.12557	-35.421582	0	0	-400.25995	-24.923965
Dividend income squared	147517.82	59239.33	265727.14	0	0	32422.195
Dividend income by HS graduates	0	0	-53.929622	0	-1033.3331	0
Dividend income by interest income	0	-154.36385	-886.31696	0	0	0
Dividend income by homeowner	0	0	-16.994457	0	1427.1966	0
Interest income	0	-71.429023	-131.87575	0	0	0
Interest income squared	0	80783.444	156974.43	117876.68	0	88495.941
Interest income by HS graduates	0	0	0	0	0	0
Interest income by homeowner	0	0	0	-42.977017	0	-23.889698
Rental income	0	-26.56122	0	0	-14.775382	0
Rental income squared	0	57456.034	0	0	36559.668	0
Rental income to the third power	0	-53558653	0	0	0	0
Rental income by HS graduates	0	0	0	0	-5.0547218	0
Rental income by interest income	0	0	0	0	0	-1351.9337
Rental income by homeowner	0	0	0	-11.001052	0	0
Income eligible by black head	0.49412786	-1.2491598	0.68012623	0	0	-1.3637972
Income eligible by Asian head	-0.9163941	-0.692707	0	0	-0.9845487	0
Income eligible by other race head	0.90014933	0	0.89104893	0	0.49038574	0
Income eligible by age 5 to 17	0	0.14319385	0	0	0	0.09775557
Income eligible by HS graduates	0	-0.4043886	0	0	0	0
Income eligible by not in labor force	0.43598528	0.40374098	0	0	0.39711403	0
Income eligible by never married	0	0.78180344	0	0	0	0
Income eligible by North Central	-0.539023	0	0	0.4498465	-0.3900539	0
Income eligible by South	-0.2445797	0	0	0	0	0
Income eligible by West	-0.2670284	0	0	0	0	0
Income eligible by interest income	-99.965772	0	0	-67.610475	-89.681425	-42.309216
Income eligible by rental income	0	11.497491	0	8.8020558	0	0
Constant	3.1545584	3.1702922	2.863992	3.4695082	3.447086	3.4612281

Table A.8 (continued)

(All variables refer to TANF unit)	Kansas	Kentucky	Louisiana	Maine	Maryland
Unit size squared	0	10.342457	0	0	0
Homeowner	-0.86929584	-0.75361382	-0.753117	-0.80356069	-0.78701033
Head is African American/Black	0.67780143	0.64889322	0.70549146	0.46364143	0.6591555
Head is Hispanic	0.71318855	0.79108714	0.60759071	0.69693084	0.7021381
Head is other race	0	0.52827379	0	0	0
Number age 0 to 4	0	0	0	0.17067533	0
Number of nonelderly adults	-0.39219105	-0.47430705	-0.37282461	-0.88717734	-0.42990189
Number of high school graduates	-0.40346273	-0.46154679	-0.43349495	-0.64459054	-0.43644942
Number not in the labor force	-0.24090621	-0.35164375	0	0	0
Number of never-married adults	0.25843614	0.34727568	0.26029407	0.50243547	0.2344938
In North Central	0.81110158	0.43734394	0.42501646	0.32883274	0.42907948
In South	1.4583979	1.2104766	1.2921491	0.60296646	1.2816911
In West	0.92821759	0.74200101	0.81842696	0	0.79647986
Gross income to the third power	0	0	0	-122367.1	0
Gross income by HS graduates	0	0	0	0.25703499	0
Gross income by interest income	0	0	0	-61.657013	0
Earnings to the fourth power	-48441277	-42825611	-40253866	0	-40065847
Dividend income squared	247585.87	231752.54	243818.31	231463.46	241235.55
Dividend income by HS graduates	-85.062654	-81.084297	-81.137178	-54.034039	-80.294884
Dividend income by interest income	-3332.9174	-3282.8688	-3269.8106	-1219.2166	-3222.4822
Interest income	-156.64283	-169.05036	-162.1195	0	-167.42488
Interest income squared	102138.33	96939.464	102058.02	52129.926	100548.88
Interest income by HS graduates	47.859202	55.805457	50.611964	0	53.717118
Interest income by homeowner	0	0	0	-64.693302	0
Rental income squared	88023.961	83474.091	80941.213	0	83017.481
Rental income to the third power	-95913066	-91241259	-86556837	14506324	-88848911
Rental income by HS graduates	0	0	0	-6.9016478	0
Rental income by homeowner	-21.946448	-20.635463	-20.84252	0	-21.239107
Income eligible by multiple TANF units	-0.59652376	0	-0.56842642	0	-0.59415621
Income eligible by Asian head	-0.45447411	-0.49106332	-0.41865743	-0.60690224	-0.42919986
Income eligible by other race head	1.0324356	0	0.8363432	0	0.81443573
Income eligible by age 5 to 17	0.16383693	0	0.16087865	0.068740445	0.15615503
Income eligible by not in labor force	0.42585428	0.28375117	0	0	0
Income eligible by North Central	-0.55537071	0	0	0	0
Income eligible by South	-1.0242769	-0.68217003	-0.82999256	0	-0.78429128
Income eligible by West	-0.97877932	-0.66543101	-0.72946571	0	-0.69143193
Income eligible by earnings	0.28959117	0.27073392	0.27042777	0	0.25575593
Income eligible by dividend income	48.758426	48.567186	44.557777	0	43.830302
Income eligible by interest income	-19.991676	-19.376364	-19.645094	0	-19.608687
Constant	2.9255594	3.047451	2.8358937	3.6679971	2.9621721

Table A.8 (continued)

(All variables refer to TANF unit)	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
Unit size	0	-1.0418527	0	0	0
Unit size squared	0	35.030483	0	0	0
Homeowner	-0.95562691	-0.71475699	-0.67033788	-0.92765599	-0.98499854
Multiple TANF units in household	0.43726212	-0.64340952	0	0	0
Head is African American/Black	0	0.68033181	0.53804019	0.76799577	2.0958225
Head is Asian	-0.44845497	0	0	0	0
Head is Hispanic	0.29692855	0.70983816	0.43272162	0.96462452	0.7921665
Head is other race	0	0.89535124	0	0.71091016	0.59934528
Number age 0 to 4	0	0.83834551	0.22599735	0	0.20536453
Number age 5 to 17	0	0.63289246	0	0	0
Number of nonelderly adults	-0.66051614	0.3159378	-0.58838464	-0.60001918	-0.74441901
Number of high school graduates	-0.85536922	-0.31550198	-0.43454681	-0.4500977	-0.26288844
Number of never-married adults	0.46189664	0.23973556	0.39808147	0.36737651	0
In North Central	0	0.51378712	0	0.76958096	0.5248148
In South	0.46577696	0.79799994	0.34133161	1.3515545	0.77871562
In West	0	0.35558009	0	0.78826409	0.82856541
Gross income	-0.57449179	0	0	0	0
Gross income to the fourth power	-41964989	0	0	0	0
Gross income by HS graduates	0.42460825	0	0	0	0
Gross income by interest income	-55.021601	0	0	0	-37.43351
Earnings to the fourth power	0	0	0	-25744189	0
Dividend income	108.31755	0	-31.516456	0	-25.540982
Dividend income squared	0	0	54644.025	96260.958	37494.026
Dividend income by HS graduates	-111.45485	0	0	-82.155983	0
Dividend income by interest income	0	0	-142.03166	0	0
Dividend income by homeowner	0	-72.248979	0	0	0
Interest income	0	-74.513739	-71.959952	-175.38001	0
Interest income squared	0	84806.35	82590.807	100019.79	102448.22
Interest income by HS graduates	0	0	0	58.094158	-16.369717
Rental income	0	0	-3.6515578	0	0
Rental income squared	0	0	0	95192.51	0
Rental income to the third power	15391616	0	0	-105802190	0
Rental income by HS graduates	-5.3122047	0	0	0	0
Rental income by homeowner	0	-3.3041439	0	-22.861112	-3.5170663
Income eligible	0	-0.6300591	0	0	0
Income eligible by unit size	0	0	0	0.13632132	0
Income eligible by black head	0.56304018	0	0	0	-1.6528193
Income eligible by Asian head	0	0	-0.63637201	-0.5822693	-0.62791517
Income eligible by Hispanic head	0	0	0.45582452	0	0
Income eligible by other race head	0.51599683	0	0	0	0
Income eligible by age 0 to 4	0.13255123	0	0	0	0
Income eligible by age 5 to 17	0	0.29636102	0	0	0
Income eligible by not in labor force	0	0	0	0.26273815	0.35045189
Income eligible by never married	0	0	0	0	0.69807603
Income eligible by North Central	0.35752467	0	0	-0.46420944	0
Income eligible by South	0	0	0	-0.84991497	0
Income eligible by West	0	0	0	-0.84744245	-0.6602171
Income eligible by dividend income	0	0	0	48.468853	0
Income eligible by interest income	-95.985701	0	0	-20.916145	-74.316405
Constant	3.7147251	3.7999277	3.640927	3.1586723	3.5500478

Table A.8 (continued)

(All variables refer to TANF unit)	Montana	Nebraska	Nevada	New Hampshire	New Jersey
Unit size squared	6.7974062	0	0	9.2491589	10.823119
Homeowner	-0.8303333	-0.76206729	-0.83847223	-0.95848984	-0.91900497
Head is African American/Black	0.69651842	1.6845254	0.51695284	0.66300678	0.79330642
Head is Hispanic	0.61150063	0.43658614	0.78550868	0.92136676	1.0500731
Head is other race	0.84422265	0.72653342	0	0	0.67566228
Number age 0 to 4	0	0.28757689	0.17438467	0	0
Number of nonelderly adults	-0.43676991	-0.66944031	-0.69521309	-0.59634111	-0.64200022
Number of high school graduates	-0.27900742	-0.34000783	-0.30488399	-0.38978861	-0.40470654
Number of never-married adults	0.41751117	0	0.57377285	0.34591373	0.30378152
In North Central	0	0.43363276	0.3493726	0.46592131	0.4097929
In South	0.58341809	0.68570497	0.53640855	0.78721729	0.74086117
In West	0.25339799	0.76575532	0	0	0
Gross income	0.9284685	0.57597897	0	0	0
Gross income squared	-414.40798	0	0	0	0
Gross income to the third power	0	-129066.96	0	-78790.184	0
Gross income by HS graduates	-0.17943674	0	0	0	0
Gross income by interest income	0	-46.036431	-58.77454	0	0
Earnings to the fourth power	0	0	-28014840	0	-23139054
Dividend income squared	0	0	226710.38	247763.15	250397.68
Dividend income by HS graduates	0	0	-52.973594	-57.680319	-58.450829
Dividend income by interest income	229.59829	125.85111	-1219.3399	-1440.5015	-1563.1713
Dividend income by homeowner	-54.916424	-13.072783	0	0	0
Interest income	-73.672288	0	0	-168.44299	-173.52071
Interest income squared	83108.135	88865.24	49651.893	103022.15	98259.634
Interest income by HS graduates	0	0	0	54.534241	58.114211
Interest income by homeowner	0	-24.77237	-63.437753	0	0
Rental income squared	0	0	0	-11349.027	90311.014
Rental income to the third power	0	0	14483645	8754816.2	-100441070
Rental income by HS graduates	0	0	-7.327717	0	0
Rental income by interest income	0	-1379.9284	0	0	0
Rental income by homeowner	-9.8814909	0	0	0	-21.756565
Income eligible by multiple TANF units	-0.45791912	0	0	0	0
Income eligible by black head	0	-1.2578824	0	0	0
Income eligible by Asian head	0	-0.71372738	-0.62383776	0	-0.55244233
Income eligible by Hispanic head	0	0.51339792	0	0	0
Income eligible by other race head	0	0	0.4481561	0.83729981	0
Income eligible by not in labor force	0	0	0	0	0.23777048
Income eligible by never married	0	0.64779446	0	0	0
Income eligible by North Central	0.49421022	0	0	0	0
Income eligible by West	0	-0.52774622	0	0	0
Income eligible by interest income	-78.040797	-38.240645	0	-23.150086	-21.540355
Income eligible by rental income	7.1707865	0	0	0	0
Constant	2.6411578	3.329297	3.0725897	3.3852516	3.3690039

Table A.8 (continued)

(All variables refer to TANF unit)	New Mexico	New York	North Carolina	North Dakota	Ohio
Homeowner	-0.78420781	-0.62450135	-0.81141189	-0.59143582	0
Head is African American/Black	0.74956995	0.69874445	0.72409352	2.2442859	0
Head is Hispanic	0.52046387	0.60538555	0.75986657	0.79772758	0
Head is other race	0	0	1.0885327	0.94692394	0
Number age 0 to 4	0	0	0	0.27195319	0
Number of nonelderly adults	-0.31710729	-0.44808896	-0.19292414	-0.73712525	0.45976596
Number of high school graduates	-0.69876294	-0.81211327	-0.43341774	-0.3120431	0
Number not in the labor force	-0.68137756	-0.63306069	0	0	-1.3680907
Number of never-married adults	0.35078729	0.33841116	0.29851019	0	0
In North Central	0	0.40616251	0.23311564	0.58737068	0
In South	0.58600527	0.44730519	0.91582766	0.74797407	0
In West	0	0	0	0.38080677	0
Number receiving general assistance	1.4346955	1.6042066	0	0	0
Gross income	0	0	0	0	3.8291087
Gross income squared	-500.79838	-421.02207	0	0	0
Gross income by HS graduates	0.52188063	0.40396696	0	0	-1.7372454
Gross income by interest income	0	-52.002789	0	-44.56057	0
Earnings	0.62750508	0	0	0	0
Earnings to the third power	0	0	0	0	296891.01
Earnings by high school graduates	-0.24244811	0	0	0	0
Earnings by interest income	-52.608831	0	0	0	0
Dividend income	0	0	0	-25.426346	0
Dividend income squared	0	219946.75	0	33565.14	0
Dividend income by HS graduates	-101.03853	-50.543186	0	0	0
Dividend income by interest income	0	-1203.1457	0	0	0
Dividend income by homeowner	93.385194	0	-77.414815	0	0
Interest income	0	0	-74.249996	0	0
Interest income squared	0	44139.016	84685.231	90129.962	0
Interest income by homeowner	-89.446286	-64.271816	0	-26.998808	0
Rental income	-35.313369	0	0	0	0
Rental income squared	155590.82	0	0	0	0
Rental income to the third power	-171955200	0	0	0	0
Rental income by interest income	0	0	0	-1013.6541	0
Rental income by homeowner	0	0	-11.939451	0	0
Income eligible by multiple TANF units	0	0.43143077	-0.6313734	0	0
Income eligible by homeowner	0	-0.24063035	0	-0.46355592	0
Income eligible by black head	0	0	0	-1.7611412	-0.73102859
Income eligible by Asian head	-0.61362777	-0.4753569	-0.40942319	-0.70228366	0
Income eligible by Hispanic head	0.45844735	0	0	0	0
Income eligible by other race head	0.73351492	0.53299453	0	0	0
Income eligible by age 0 to 4	0.12605929	0.14681765	0	0	0
Income eligible by age 5 to 17	0	0	0.12217444	0	0
Income eligible by not in labor force	0.44993374	0.34251719	0	0.33110645	0
Income eligible by never married	0	0	0	0.80099284	0
Income eligible by North Central	0.68787296	0	0	0	0
Income eligible by South	0	0	-0.53113227	0	0
Income eligible by West	0	0	0	0	0
Income eligible by gross income	-0.39107512	0	0	0	0
Income eligible by interest income	0	0	0	-40.747088	0
Income eligible by rental income	0	0	8.8246616	0	0
Constant	2.9800649	3.252483	2.9098029	3.620706	5.1318304

Table A.8 (continued)

(All variables refer to TANF unit)	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina
Unit size	0	-1.2277336	0	0	0
Unit size squared	0	41.666781	0	0	0
Homeowner	-0.91300776	-0.61598189	-0.76211941	-0.72266519	-0.83643971
Multiple TANF units in household	0.40178363	0	0.2996628	0	0
Head is African American/Black	0.53647345	1.7228171	0.49027003	0.5977824	0.61459133
Head is Hispanic	0.24673653	0.91358509	0.36539586	0.51955605	0.92301161
Head is other race	0	0.75004914	0	0	0.77314417
Number age 0 to 4	0	1.220576	0	0.1209235	0.21232512
Number age 5 to 17	0	0.6531604	0	0	0
Number of nonelderly adults	-0.68669395	0	-0.73219354	-0.38130744	-0.38737224
Number of high school graduates	-0.85469554	0	-0.52713297	-0.67002128	-0.40034835
Number not in the labor force	0	-0.47362763	0	-0.28982223	0
Number of never-married adults	0.35922233	0	0.40411381	0.25152717	0.42529827
In North Central	0.81071986	0	0.4422	0.79089419	0.22214343
In South	0.43274824	0.31367231	0.47041234	0.58959805	1.0680049
Number receiving general assistance	1.6368448	0	1.5988277	0	0
Gross income	-1.4274031	0.48228416	0	-0.54059065	0
Gross income squared	0	0	-241.14071	0	0
Gross income to the fourth power	0	0	0	0	-27155536
Gross income by HS graduates	0.77368041	0	0.17578352	0.29877231	0
Gross income by interest income	-74.347041	-43.790392	-64.619424	0	0
Earnings	0.78313223	0	0	0	0
Earnings squared	0	-303.39654	0	0	0
Earnings to the third power	0	0	0	-66709.969	0
Earnings to the fourth power	-46265892	0	0	0	0
Earnings by high school graduates	-0.38486289	0	0	0	0
Dividend income	0	-43.989938	0	0	0
Dividend income squared	905054.44	28599.051	966641.35	181586.57	0
Dividend income by HS graduates	-665.65244	0	-705.47694	-103.95848	0
Dividend income by interest income	1166.1307	0	1181.4945	0	0
Dividend income by homeowner	0	0	0	0	-59.718885
Interest income	0	0	0	-168.76092	-142.83074
Interest income squared	0	35507.903	0	202341.46	103943.55
Interest income by HS graduates	0	0	0	0	41.792102
Interest income by homeowner	0	-47.229805	0	0	0
Rental income squared	0	0	0	0	121340.02
Rental income to the third power	0	0	0	0	-132846720
Rental income by interest income	0	-933.47258	0	0	0
Rental income by homeowner	0	0	0	0	-28.996522
Income eligible	0	-1.1516291	0	0	0
Income eligible by black head	0	-1.1186057	0	0	0
Income eligible by Asian head	-1.0599182	-0.83249998	-1.0072745	-0.80241712	-0.49170957
Income eligible by Hispanic head	0	0	0	0	0
Income eligible by other race head	0.51488197	0	0	0.57764781	0
Income eligible by age 0 to 4	0	0	0.14386337	0	0
Income eligible by age 5 to 17	0	0.39424024	0	0	0.12156934
Income eligible by HS graduates	0	-0.38143378	0	0	0
Income eligible by not in labor force	0.18474134	0.80371292	0	0.23145834	0.24755663
Income eligible by never married	0	0.64394564	0	0	0
Income eligible by North Central	-0.43430295	0	0	-0.39679942	0
Income eligible by South	0	0	0	0	-0.66945082
Income eligible by earnings	0	0.48360921	0	0	0
Income eligible by dividend income	0	22.795944	0	0	0
Income eligible by interest income	-95.928894	0	-104.58391	0	-24.862667
Constant	3.6437143	5.3062059	3.1374293	3.1370067	2.918327

Table A.8 (continued)

(All variables refer to TANF unit)	South Dakota	Tennessee	Texas	Utah	Vermont
Unit size	0	0	-0.13079745	0	-1.0640495
Unit size squared	0	0	0	9.8924582	33.298491
Homeowner	-1.0125693	-0.95021074	-0.90257871	-0.90095315	-0.77367105
Multiple TANF units in household	0	0.46333535	0.30429769	0	0
Head is African American/Black	0.72515116	0	0	0.68128368	0.54896567
Head is Asian	0	-0.56961505	-0.76052658	0	0
Head is Hispanic	0.83860673	0.39617317	0	0.95778851	0.86085346
Number age 0 to 4	0	0	0	0	0.98751327
Number age 5 to 17	0	0	0	0	0.74211925
Number of nonelderly adults	-0.59277538	-0.64741186	0	-0.52598682	0
Number of high school graduates	-0.53807304	-0.79388885	-0.85890116	-0.45009538	-0.19458765
Number not in the labor force	0	0	-0.23553884	0	0
Number of never-married adults	0.34243979	0.45949555	0.2899671	0	0.358332
In North Central	0.48111851	0.37969802	0	0.35301657	0.48162537
In South	0.69524108	0.53621977	0.32164761	1.0222037	1.2137207
In West	0	0	0	0	0.67854902
Gross income	0	-0.46723878	-1.2806538	0	0
Gross income to the third power	-144666.56	0	0	0	0
Gross income by HS graduates	0.19800575	0.36693022	0.65584583	0	0
Gross income by interest income	0	-62.155325	-98.608625	0	0
Earnings	0	0	1.1122559	0	0
Earnings squared	0	0	-321.247	0	0
Earnings to the fourth power	0	-44668794	0	-22884016	-26050955
Earnings by high school graduates	0	0	-0.25506701	0	0
Dividend income	0	0	-616.65633	0	0
Dividend income squared	245980.37	95189.245	61263.662	235187.94	0
Dividend income by HS graduates	-57.194043	-43.821725	0	-78.072849	-74.118601
Dividend income by interest income	-1346.5731	0	0	-2949.1919	0
Dividend income by homeowner	0	0	577.36754	0	0
Interest income	-150.84747	0	0	-167.08473	-160.25224
Interest income squared	178926.63	0	0	98119.423	99480.1
Interest income by HS graduates	0	0	0	54.832551	50.740151
Rental income squared	138577.21	0	0	93921.885	128717.8
Rental income to the third power	-153891830	17334931	0	-104990510	-139863680
Rental income by HS graduates	0	-6.5590405	0	0	0
Rental income by homeowner	-31.104443	0	0	-22.417174	-30.123899
Income eligible by unit size	0	0	-1.4463162	0	0
Income eligible by homeowner	0	0	0.24257055	0	0
Income eligible by black head	0	0.73926895	0.58044343	0	0
Income eligible by Asian head	0	0	0	-0.57935463	-0.42211913
Income eligible by Hispanic head	0	0	0.6007603	0	0
Income eligible by other race head	0.92270791	0	1.1097537	0.87923354	0.6255591
Income eligible by age 0 to 4	0	0.12475147	1.7409882	0	0
Income eligible by age 5 to 17	0	0	1.6428039	0	0.18256716
Income eligible by number of adults	0	0	1.13705	0	0
Income eligible by not in labor force	0.21526108	0	0.45057838	0.27548336	0
Income eligible by never married	0	0	0	0.41699774	0
Income eligible by South	0	0	0	-0.4450725	-0.64417956
Income eligible by West	0	0	-0.32871265	0	-0.52412507
Income eligible by earnings	0	0	-0.22223033	0	0
Income eligible by dividend income	0	0	0	41.221296	57.499457
Income eligible by interest income	0	-99.861485	-97.907086	-21.02931	-18.570468
Constant	3.4935863	3.6497401	2.6230425	3.2702317	3.5100444

Table A.8 (continued)

(All variables refer to TANF unit)	Virginia	Washington	West Virginia	Wisconsin	Wyoming
Unit size	1.2844672	0	0	0	-0.88731793
Unit size squared	0	0	0	12.8888	0
Homeowner	0	-0.77693415	-0.70116779	-0.72686212	-0.83091394
Multiple TANF units in household	0	0.40814222	0	0	0
Head is African American/Black	0	0.47527191	0.61755238	0.41579062	0.5909654
Head is Asian	0	0	-0.36700932	-0.37310695	-0.47150222
Head is Hispanic	0	0.30321653	0.4047051	0.58792676	0.75754023
Head is other race	0	0	0	0.50653564	0.45511469
Number age 0 to 4	0	0	0	0	1.1060219
Number age 5 to 17	-0.96466165	0	0	0	0.97148485
Number of nonelderly adults	0	-0.56011122	-0.71507604	-0.65265468	0.26341989
Number of high school graduates	0	-0.72482897	-0.46075727	-0.35356598	-0.23599531
Number not in the labor force	0	-0.17689879	0	-0.19761079	0
Number of never-married adults	0	0.33056868	0.39539468	0.3461549	0.39759174
In North Central	0	0.81432733	0.37676135	0.41017004	0.22746474
In South	0	0.44203839	0.48653487	0.47571784	0.98026921
Number receiving general assistance	0	1.8672455	1.5580664	0	0
Gross income	0	-4.098226	0.46464915	0	0
Gross income squared	1839.6278	8044.6703	0	0	0
Gross income to the third power	0	-5982100.7	0	0	0
Gross income to the fourth power	0	1386696000	-76483040	0	-25067578
Gross income by HS graduates	0	0.32538911	0	0	0
Gross income by interest income	0	-74.291242	0	-62.493886	0
Gross income by homeowner	0	0	-0.22807967	0	0
Earnings by high school graduates	-1.8674443	0	0	0	0
Dividend income squared	0	912226.93	71509.936	210180.36	0
Dividend income by HS graduates	0	-669.20056	-36.167192	-48.073118	0
Dividend income by interest income	0	1153.951	0	-1483.5563	0
Dividend income by homeowner	0	0	0	0	-55.536756
Interest income	0	0	-148.71881	0	-86.201515
Interest income squared	0	0	177393.63	53710.394	100257.92
Interest income by homeowner	0	0	0	-69.68644	0
Rental income squared	0	0	0	141468.67	114174.74
Rental income to the third power	0	0	9224481.9	-149706140	-127682850
Rental income by HS graduates	0	0	-5.2679865	0	0
Rental income by homeowner	0	0	0	-33.450208	-26.314633
Income eligible by multiple TANF units	0	0	0	-0.39852239	0.38108172
Income eligible by Asian head	0	-1.0139243	0	0	0
Income eligible by other race head	0	0.57377482	0	0	0
Income eligible by age 0 to 4	0	0.12366004	0	0	0
Income eligible by not in labor force	0	0	0	0	0.37564877
Income eligible by North Central	0	-0.41754491	0	0	0
Income eligible by South	0	0	0	0	-0.53737552
Income eligible by interest income	0	-90.040157	0	0	0
Constant	3.606075	3.3831928	3.0778063	3.1103784	2.9909055

Source: 2009 Baseline of 2005 MATH SIPP+ model

Table A.9. TANF Benefit Equation Coefficients

(Variables refer to TANF unit)	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware
1 person	20.14896327	77.10100537	47.87995623	44.10701055	64.13691755	69.6091721	82.75962672	37.19006634
2 people	-13.12223507	45.77581924	64.28392379	31.98852705	33.3616004	-33.67449419	15.22414244	-11.74981528
3 people	-3.996921541	45.42386492	71.30001625	6.37554763	38.85402527	-23.65866014	-21.40678453	-57.79028457
4 people	-0.969798744	79.71942956	49.74644612	-17.26759676	33.3323873	16.64457872	-16.45470407	-46.74844309
5 people	43.00171142	-8.042895885	2.609038599	-15.39384617	52.28559269	-8.980417175	-23.60318016	-83.6165335
Have earnings	-39.05893257	-143.2121044	-76.34289296	63.98577882	2.610244904	-66.81571012	65.97309306	19.37959837
Receive child support	-89.30046772	65.62438831	-12.90668478	-99.25595022	17.69213335	-3.544708176	-34.40822299	-38.41867822
Earnings	0.040644032	-0.222575469	-0.08073586	-0.061830157	-0.255771919	-0.180692726	0.029420268	-0.132053481
Child support	0.186057423	-0.583617056	0.053337497	0.160473267	-0.500621505	-0.018751015	-0.032366958	0.386767172
Other income	-0.244771101	-0.345044197	-0.136133408	-0.074861678	-0.193693267	-0.047206956	-0.420133469	-0.321600019
Child only	56.25068471	-221.5875575	50.05249641	50.65783365	3.583129704	-52.1009026	95.1494389	118.6897734
Child under age 1	36.67877534	101.3435936	-34.61428252	15.11475697	-29.7077842	-8.500373676	-64.22833396	9.031134395
Child under age 2	16.46473097	-128.1422246	2.062106288	9.514551373	19.92175286	5.371202054	9.416728246	-16.23073083
Child under age 3	-7.44519879	82.19072028	-28.16665733	-11.92386979	-25.04571027	-2.632878534	-9.674441959	14.16452912
Child under age 4	10.79308927	47.11922182	-39.96471938	-28.50803893	-29.42236877	-8.807186112	17.93344749	-1.8611917
Child under age 5	-53.30708207	-88.38730674	39.73600495	4.402241698	25.17401438	5.456957175	30.82955446	-36.99077366
Child under age 6	18.9253635	24.10724239	-40.68312093	-4.230565761	-38.17231137	-0.365564588	-21.33306296	-12.71426098
Adult age 18 to 24	10.99701763	-75.45556708	33.23939955	-15.27819055	16.07007406	2.570752354	14.08692893	-21.81315496
Adult age 55 or older	-20.96270651	75.49418613	-44.44906825	-78.94704585	26.91639902	13.21939326	-160.3904466	112.8166816
Adult age 60 or older	-17.85038757	-85.88941586	74.08255798	39.32850935	56.97868299	13.12724532	218.6907442	-136.3024381
Adult age 65 or older	0	-229.7274674	49.51037547	56.01634941	-15.75646928	0	100.1751661	77.94705276
Multiple adults	-0.193655724	-109.1557776	1.48028566	-60.20928959	-118.4951411	-0.745816801	-22.73964657	72.3712239
No earnings, child	0	2.058533957	20.97191221	19.26104022	24.04026887	0	150.6879303	113.1712738
No earnings, no child under age 1	24.48761882	11.3738703	-1.824985423	0.403230551	-2.023632515	-7.280080254	-102.1203804	-35.31353835
No earnings, no child under age 2	53.66362898	-41.02324253	-22.78827201	51.10812276	33.83954263	3.771972295	8.383972076	48.43452895
No earnings, no child under age 3	-59.69339856	-10.06740464	53.83577051	-27.56200929	-39.90004867	5.963137316	15.77489988	-34.00467304
No earnings, no child under age 4	14.54640919	90.01197143	-55.57682985	-19.55614679	-5.804386858	-9.468886196	-29.84625508	8.490595532
No earnings, no child under age 5	5.758266695	-51.82558409	56.24203861	39.86646053	88.72393951	-5.7188126	104.5713288	-39.16037376
No earnings, no child under age 6	-2.591118044	7.52357482	-57.96735506	-46.99747529	-93.86332535	0.762483107	-38.78686295	23.44124908
No earnings, multiple adults	-27.26237209	-19.10373069	1.649059934	40.34740301	142.1391985	26.98948918	63.23056696	-113.1365211
Constant	228.1116702	574.806449	210.3699007	99.25726164	441.6345551	175.2650809	214.1156989	270.7154799

Table A.9 (continued)

(Variables refer to TANF unit)	District of Columbia	Florida	Georgia	Hawaii	Idaho	Illinois	Indiana	Iowa
1 person	55.65103731	39.94111089	38.13422233	96.33708834	14.39963719	55.97424045	1.074941846	42.80802656
2 people	-34.57024493	-22.25478107	25.35642344	7.069424679	6.292928286	34.88359556	-84.64962069	71.95988295
3 people	-73.19202091	-25.99518777	16.31535567	0.434632356	11.4624219	45.91778382	-87.43370099	44.43834766
4 people	-58.35737906	-29.66511895	26.00062221	39.16332731	48.72674691	37.87718469	-49.77319092	61.08495776
5 people	-95.84074954	0.934208875	34.67174676	79.37728373	-81.42877969	28.17065477	-7.475845089	3.841781727
Have earnings	-160.9757435	-251.4405794	-88.48481592	-234.8030136	-127.0593201	63.37134488	112.5629125	76.17322145
Receive child support	-153.7401299	-4.374263849	-1.328465137	-4.395580932	-25.54318375	5.394300379	-63.59166813	-29.02106296
Earnings	-0.035804857	-0.006317546	-0.021188097	-0.39064622	0.066088324	-0.262831733	-0.028176536	-0.110117218
Child support	0.225840088	0.020896302	0.005204916	-0.668127267	0.055120455	-0.11103284	-0.00621982	0.169430119
Other income	-0.453905019	-0.103408568	-0.140001195	-0.620667673	-0.483744565	-0.110941525	-0.019278722	-0.235368262
Child only	89.94765978	-147.9701801	16.01550783	-104.9292042	189.9762737	-33.64184398	106.9458863	327.603186
Child under age 1	77.90469963	25.47465634	-16.60229263	54.2974681	-58.15650671	11.01464319	20.04927247	-22.94741328
Child under age 2	-1.560977158	-23.31753582	7.085872812	-24.35311347	-30.87892136	-5.483850946	7.674982296	63.4988569
Child under age 3	7.475564101	31.85533065	-9.593498452	-15.24749476	10.56651864	13.42365147	-27.13392448	-41.13456588
Child under age 4	11.34371812	21.07009026	18.32464944	61.21311867	51.61371436	4.628020239	11.37215403	30.25477609
Child under age 5	31.08928823	-69.9582279	29.46093132	-55.59043479	-63.04201251	15.01653042	-21.02787487	5.80792009
Child under age 6	-46.95187317	9.415191371	-47.95560397	-32.65928946	50.26314583	-28.07383236	17.52905232	-27.03242604
Adult age 18 to 24	21.54202016	-18.29558774	11.71269668	31.46603882	-21.34479193	-19.29085063	9.478860882	-1.31969293
Adult age 55 or older	-60.40278318	52.33764178	-28.67749604	124.0995209	-38.29089257	-58.75326429	29.0942244	28.43471806
Adult age 60 or older	-0.189258233	25.46741404	-72.42490155	-268.1051867	-56.10431508	85.36748306	18.95019508	61.81623762
Adult age 65 or older	26.62013287	-129.0628099	128.3868982	420.1486381	-27.62895747	-22.26685248	-119.8174999	-199.656243
Multiple adults	35.34051026	-11.60957867	-138.2907055	-16.68370756	47.14016047	-9.721434655	77.4686396	-25.76780779
No earnings, child	0	-201.047649	-43.14889122	-166.5594294	253.4065635	97.39006434	193.7843577	301.5114555
No earnings, no child under age 1	98.5202473	62.66918958	-2.987267549	66.09039536	-56.70935416	28.78390811	71.7705083	-22.66103104
No earnings, no child under age 2	9.070892989	-16.95610944	47.74548981	9.509355277	-86.55952967	-0.191446574	-42.10791545	38.33798648
No earnings, no child under age 3	24.06593981	-46.34401304	-19.821087	-63.00568967	94.96144531	24.96283942	-37.24551331	-13.37101225
No earnings, no child under age 4	16.02533657	25.33021372	-42.70097942	87.85367898	-20.25317252	6.609946256	42.17704392	15.39393394
No earnings, no child under age 5	1.018648072	-38.16066102	130.6288978	-30.08441058	-80.06274566	-16.62038412	-22.02052534	-4.615298405
No earnings, no child under age 6	-81.3595727	34.69921319	-104.8280057	-52.33209055	31.1177921	-81.62327721	5.730452695	-34.07850775
No earnings, multiple adults	12.84403973	32.6049036	0.264211946	-30.19723538	246.6813267	-54.8693538	-13.28817242	47.98657273
Constant	399.1477243	408.5091797	219.6644696	615.9789623	293.5614794	82.45225201	171.6356292	87.8720971

Table A.9 (continued)

(Variables refer to TANF unit)	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota
1 person	75.06533001	24.11156651	37.54956799	107.2459793	78.04279682	85.30022788	99.74100937	70.3414929
2 people	23.45098731	-31.82727125	25.72737108	22.42615512	51.02451179	8.464535407	63.86277716	48.86756338
3 people	26.12715053	-40.34659807	-7.07199425	6.14823171	39.45260368	-14.59436034	77.18440184	35.82255557
4 people	7.748244203	0.037182439	11.36948367	43.51741647	34.53835092	-48.08771115	15.26560838	3.250522867
5 people	1.87403991	-28.60385959	-4.424420829	13.78391439	43.91665705	-63.3947044	-44.98087906	15.78120637
Have earnings	-112.7732332	-10.27375004	-113.13953	21.0566791	-209.0726734	54.57647406	-161.1995373	-51.64285254
Receive child support	4.534310919	-1.349882914	-14.79291955	-1.357119936	-15.17737252	-9.913529696	-7.002807953	-153.5771347
Earnings	-0.104513327	-0.084439224	-0.075186016	-0.242512914	-0.016710445	-0.144634277	-0.11233811	-0.093032723
Child support	-0.020077275	0.003793267	0.084181711	-0.020016009	-0.003043119	0.029915903	-0.130568208	-0.099278006
Other income	-0.088477021	0.166186848	-1.989040301	-0.556614528	-0.24465846	-0.371098155	-0.333713709	-0.067373165
Child only	-63.87038972	112.7146084	0	-155.0639305	32.42903633	146.1370699	-93.88883465	-23.12461168
Child under age 1	-29.59124509	16.68501149	52.03869337	51.13115433	69.18654153	34.72205226	37.96852694	-10.6553925
Child under age 2	39.88446375	-16.49941586	-147.6955122	13.19880255	-51.5321685	-2.333178458	45.6093098	19.57697058
Child under age 3	-50.25364746	7.423173978	90.4325555	-33.93691547	-17.13061494	9.333428011	-38.98289873	-5.062403157
Child under age 4	2.992570399	-23.43431999	-10.06243469	11.57707067	31.53777827	-13.78453893	6.535258591	9.484405466
Child under age 5	45.28401414	4.315332083	-42.13177173	18.47772262	-6.070539854	9.816921306	-59.59433481	-38.14287898
Child under age 6	-56.5708436	45.49615345	35.64981993	-13.38947222	6.847310904	14.7329499	62.02233448	51.61294354
Adult age 18 to 24	-0.64628159	18.81565027	12.71137758	15.79651533	13.93980055	-2.642801314	18.10575998	-21.32576074
Adult age 55 or older	-84.34701531	-66.49887869	13.71793698	-28.68242598	-87.4972595	70.42856166	194.0770605	-45.94180242
Adult age 60 or older	-131.6851511	3.485028609	-1.010484748	-39.01998594	59.05248564	-13.94403964	-400.9531756	241.7181894
Adult age 65 or older	251.7193026	-240.4617176	0	80.80079257	112.7613843	0	220.2912105	-95.32574158
Multiple adults	-53.44431272	30.07924932	125.7968071	-24.60275031	-107.2488039	-124.8895349	-72.7054706	-125.3646493
No earnings, child	2.599803436	75.761103	7.409504477	102.3316362	0	103.0058664	-21.48058777	47.22973376
No earnings, no child under age 1	-31.20022375	8.817449399	70.08097847	120.5592016	44.84359687	17.6871065	167.8982556	3.758721233
No earnings, no child under age 2	43.6738233	-10.55593611	-147.1741623	-129.5142579	-42.296823	21.57918791	-67.68983813	3.466765707
No earnings, no child under age 3	-57.44089832	7.24916282	77.64582128	-13.95916438	4.131897431	-2.678954821	3.909731965	-34.49980002
No earnings, no child under age 4	21.06745028	13.73014122	-0.724792051	-24.17837006	23.56603284	-25.00552092	43.10804284	43.15919117
No earnings, no child under age 5	31.39967903	-9.963439535	101.4898887	119.0581497	-44.59303324	23.39323569	-111.0269535	-57.09331029
No earnings, no child under age 6	-59.75031375	28.90457639	-164.7416175	-21.43706782	26.16654605	-5.046355046	68.79598484	4.722897795
No earnings, multiple adults	58.92697695	-41.98818126	-67.07918759	-62.11775181	153.919358	184.0732823	57.49476315	122.2878964
Constant	168.1287521	191.3079663	311.4283291	200.1385688	208.1874939	213.4878772	213.1243434	216.7524011

Table A.9 (continued)

(Variables refer to TANF unit)	Mississippi	Missouri	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico
1 person	31.17203296	42.79818517	75.22387478	54.96164044	8.996167521	52.68533179	48.0795978	81.53762532
2 people	6.200525874	34.41309905	-25.45414507	-44.4056627	-26.26574658	12.27324115	35.06283496	22.587267
3 people	-20.88416188	22.83907807	-1.454631198	-27.62033848	-24.57573385	-9.963634191	3.241247902	27.04735984
4 people	-41.42228305	-0.337881441	-33.81329166	-64.61934977	-1.865814215	15.88960136	-8.340412532	29.83934132
5 people	-51.22782201	13.24926184	-50.30673464	-59.27402889	45.27712809	13.92553027	-45.60791701	-24.33952482
Have earnings	-29.08623728	-59.08601942	-49.77592817	-12.82503541	-200.2446083	-384.9062945	49.77271095	-109.7930733
Receive child support	-51.09381848	-51.69810141	2.900426323	-43.90091866	-126.947781	-70.15916366	-21.99980745	-46.07787182
Earnings	0.024194038	-0.037837276	-0.192224524	-0.282621766	0.041058558	-0.033579819	-0.064462751	-0.051579398
Child support	0.471920546	0.007514061	0.03548942	0.035639531	0.056044396	0.058515983	0.073837519	-0.329525397
Other income	-0.224088525	0.025664826	-0.019053457	-0.428099347	-0.083850545	-0.112616262	-0.396682059	-0.315088752
Child only	63.02261601	64.58546939	44.65481529	23.96159685	-17.01988263	-115.1251922	229.2180674	110.5949322
Child under age 1	-3.518867434	-8.380246509	-14.05991806	-0.354433578	-86.15364938	-0.929042133	-17.17362165	16.39872456
Child under age 2	5.077706712	14.33970494	62.81895472	-8.970458893	62.98534937	-56.14290836	-9.486992308	-25.25829537
Child under age 3	-31.88698842	-32.78143175	-23.45813201	10.09810248	-10.36972061	10.53425702	51.76910218	17.5474642
Child under age 4	15.44440943	84.51268926	0.60530851	-7.221685654	49.08705766	-17.07466239	-31.29751071	-71.28206499
Child under age 5	-6.136671599	-66.74251132	7.472571797	-25.57209208	-91.26918266	64.52248936	4.294361069	118.0446701
Child under age 6	22.08741112	-8.017521513	-20.6354715	-11.6877559	23.44579404	-43.51852454	-23.21544367	-65.49190855
Adult age 18 to 24	2.905309485	3.252668881	-11.7437609	-15.96093852	-8.399633409	7.420420537	1.814638663	-17.48384812
Adult age 55 or older	-107.7572952	-56.36297712	-110.3553878	193.6405858	-18.05565391	-58.37306003	-1.756276253	100.925072
Adult age 60 or older	72.42080263	-6.584550467	49.73385172	-17.8659652	-3.010360327	-8.609893703	-33.53000627	-73.20639292
Adult age 65 or older	110.324999	-213.6693951	51.70718384	-120.3835926	0	-107.1270294	174.1336416	-6.872059474
Multiple adults	-111.3481147	-157.6885709	-29.60577106	2.718659104	170.6036023	64.56904391	58.46850566	-43.6895861
No earnings, child	0	66.14630204	51.77507525	57.35537235	-26.77829107	-127.1511172	259.1569241	127.0769339
No earnings, no child under age 1	45.35845575	-21.78204591	-10.21825664	-41.79832118	-82.8201656	7.710411234	17.89961537	-42.42063969
No earnings, no child under age 2	10.77391796	-1.205419905	27.90069622	56.66672518	-6.904821669	-58.26992256	-30.71700556	-44.96503708
No earnings, no child under age 3	-29.73672806	-46.06642069	-31.35449812	61.81032138	55.05574543	-44.08434991	66.79197884	38.89828496
No earnings, no child under age 4	3.628730684	72.5715121	-9.985144821	-88.97561429	10.25625238	-2.389819873	-64.80597857	-132.1599263
No earnings, no child under age 5	11.87261212	-61.06260132	25.75444125	46.07909662	-61.19721579	142.9307216	91.1012083	183.2169387
No earnings, no child under age 6	-0.597342239	-8.067148966	11.23547144	-64.28193857	11.19832982	-99.26611041	-51.17691884	-90.46478175
No earnings, multiple adults	174.1816516	186.543726	64.55340238	111.2513227	-97.75364195	-43.93886781	51.00363761	-48.74430497
Constant	110.4040515	216.093528	187.9456212	346.830693	488.849378	616.0384678	72.17327422	202.8703868

Table A.9 (continued)

(Variables refer to TANF unit)	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island
1 person	83.20790462	16.19504021	68.47385475	41.55426835	52.18507361	94.88413104	77.87411938	72.2499626
2 people	-14.75010676	-3.608958695	22.96158822	-2.264609882	27.47299452	-24.47403785	21.43977348	13.55484575
3 people	38.25918817	-13.16430424	23.96852986	-4.580260336	19.99667909	32.63181694	19.0150419	9.063438884
4 people	16.51676492	-27.20407352	23.03708044	16.11874277	37.91959707	24.40082314	8.459781534	-12.94235804
5 people	47.14596566	-25.88078379	9.597820927	-49.26611826	-43.58065659	70.14654729	-29.56355052	2.093980872
Have earnings	114.3826171	-103.4940043	-35.90746979	-83.606323	-10.96180157	-225.6882198	-160.2778265	-109.7950337
Receive child support	-10.36455148	-65.92848747	-150.4016247	131.5561294	20.5682371	-24.00784612	11.66540661	-58.04575903
Earnings	-0.122117837	0.063594064	-0.033209224	-0.064429485	-0.001672264	-0.142432692	-0.192296196	-0.199029348
Child support	-0.06610329	0.111026123	0.495848423	-2.100525603	-0.036940462	0.010629963	-0.321075601	0.090364497
Other income	-0.130943848	-0.210456432	-0.286306482	-0.305296593	-0.092344397	-0.353291424	-0.184288436	-0.146529639
Child only	226.3273839	32.19617504	-29.73207945	77.98490107	34.73928313	-311.6000594	32.82880677	9.772415257
Child under age 1	-74.79929836	-32.2118551	10.94821481	-14.64433092	15.68484788	46.58737015	29.25046853	50.25838272
Child under age 2	51.60317612	37.90996398	-60.15023689	0.674668557	3.994160467	-77.58652051	0.397993161	10.82270559
Child under age 3	-3.326366183	-53.18859605	133.8091955	-18.35698328	-2.56167559	19.86375183	-10.72527857	0.182900329
Child under age 4	11.01021956	51.08614025	-95.39058613	-25.86195257	3.067703886	22.73852267	8.643172939	5.763040176
Child under age 5	-69.81074367	-39.07060952	-7.786208496	-20.0619536	4.821945675	21.2955559	-10.46036715	-6.580920522
Child under age 6	89.27378072	27.26299489	-4.521124255	54.6920815	-0.626431088	-36.01259846	-12.97030356	0.374394075
Adult age 18 to 24	-57.27474194	-7.452693071	-2.484245108	-18.41791546	-16.03207735	-20.44973974	-12.23726837	6.905964282
Adult age 55 or older	-35.57193323	104.3350292	-87.15778201	26.50281609	21.47015533	-103.9044392	2.300084709	-96.61438485
Adult age 60 or older	108.3555917	-37.18035703	169.1057074	99.63778797	-70.35111937	74.21879332	-130.818547	91.55726407
Adult age 65 or older	-12.22412106	36.3206127	0	-20.17665126	-11.29463765	66.60311181	149.6479362	152.4567289
Multiple adults	-75.37503939	91.69102007	49.56363895	-7.716340112	92.623392	-23.01827394	-42.37027385	-1.093096479
No earnings, child	215.5197546	47.80144986	54.64420629	68.40719424	166.2874964	-169.7773387	64.23016825	-16.07633914
No earnings, no child under age 1	-88.8094302	-18.54716372	-4.684883373	45.39422792	18.18102353	38.78880148	15.31799018	37.18223914
No earnings, no child under age 2	26.35056529	46.52793533	-62.27033224	43.98078263	-70.18424933	-74.86066181	-29.83986689	-31.97687937
No earnings, no child under age 3	21.09877627	-46.30935212	168.8512592	-61.15888829	50.47397873	-22.01644149	-37.70295447	-6.863970834
No earnings, no child under age 4	31.71279322	9.05567242	-94.9917962	49.83002882	-63.36080996	45.88355965	13.60028246	69.80714816
No earnings, no child under age 5	-55.72705357	9.841251056	4.438705996	-34.42593594	91.89111602	44.89813714	24.93170449	-52.74187466
No earnings, no child under age 6	76.82333459	1.015491434	-2.505228087	-41.34590674	-61.86489853	-61.82643412	-31.69193877	-14.97425897
No earnings, multiple adults	108.7753968	-29.25446953	20.84708527	19.84015883	-106.3304701	16.47009928	7.849386779	7.549064473
Constant	51.5002814	243.4585904	127.561827	367.7046609	-1.636003329	449.5709395	218.786915	352.5688189

Table A.9 (continued)

(Variables refer to TANF unit)	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia	Washington
1 person	26.30547472	54.0612969	10.3625118	20.33117648	65.61677489	53.38515843	25.61232616	73.35520298
2 people	-3.616845192	11.94158346	-38.79646887	12.66367976	36.01718311	8.902613155	-5.059554773	-16.43468657
3 people	-9.670085477	5.708637907	-40.25358158	14.10164327	34.64452942	16.30164023	17.63898843	-33.85851537
4 people	-15.99420803	0.071317667	-44.31537342	25.05428598	30.65408555	60.55028167	40.87084277	-23.94813967
5 people	-37.76388671	60.26829677	-42.00479226	63.0553034	15.97984702	13.84516703	13.59330738	7.570646197
Have earnings	-58.70379162	-109.3248759	90.66926659	-4.920816145	-56.1254893	71.72030652	-76.01005329	-230.602223
Receive child support	-13.09576828	7.31609001	-5.161588732	-7.254897981	-6.472969141	10.17729595	35.91555009	-24.79850727
Earnings	-0.024551515	-0.148743664	-0.116967589	-0.002505801	-0.301429677	-0.167038707	0.017882148	-0.281297749
Child support	-0.130261331	0.003659038	0.018634919	0.006500736	0.088163436	0.957383025	-0.026893753	0.073581725
Other income	-0.249601157	-0.203973752	-0.110995264	-0.054184983	-0.414975779	-0.400322125	-0.026602023	-0.328802504
Child only	73.376732	-60.07173956	62.03651131	-63.42589881	147.3881535	182.689718	-47.29377357	50.09401383
Child under age 1	-14.82520629	-17.27116428	-13.70994762	1.756679837	22.79728595	35.55268962	-26.68404292	-7.335549908
Child under age 2	16.38555536	7.473732961	6.029962476	-2.196848978	-15.30600512	-29.05263631	-38.87539807	-33.44762314
Child under age 3	6.52619811	-40.45902742	-6.796921518	-3.531987314	-15.78129145	61.91830669	33.98913197	0.873826738
Child under age 4	-63.64385965	11.58668964	-35.21170719	2.430562595	55.17229833	-47.92256477	0.206795641	-14.15380402
Child under age 5	31.42165216	14.26426242	1.676516542	-17.43134426	-60.76223388	-38.50296136	-27.99949718	10.53694047
Child under age 6	3.715030413	5.552046574	-20.33556163	18.80001471	28.37434278	26.78206922	76.52954168	-24.24935344
Adult age 18 to 24	-3.667352503	-8.799232876	-1.49368242	15.52498058	-2.598162562	3.451299437	4.576193675	-28.54004538
Adult age 55 or older	12.0871442	143.481283	75.33069721	-58.08002888	83.28312943	49.32177153	6.221208991	116.2555192
Adult age 60 or older	81.04313308	-59.16493855	87.12842543	-14.18749016	24.77517826	-25.42289814	30.25323651	-21.71351842
Adult age 65 or older	222.2983699	0	-68.38096815	86.40822624	8.514115896	0	-138.8768932	-22.70333212
Multiple adults	-14.76322143	7.568156896	-28.99550049	-69.44463785	80.01012521	9.300432025	-17.35131673	24.41353046
No earnings, child	82.28548714	-55.52497275	48.40136074	33.6342929	102.6605391	187.3211003	-87.30722535	14.76126113
No earnings, no child under age 1	-9.155745393	-51.91121947	-9.497379636	25.96801567	46.37530389	17.74565416	55.31845001	-39.35117039
No earnings, no child under age 2	48.43838122	23.77210787	35.82402292	-8.656375879	-17.13911299	-5.588847973	-70.42462406	-40.64648807
No earnings, no child under age 3	-17.55225615	-30.17252511	10.67951716	-40.43077756	-5.788111514	55.05674034	23.30169736	58.26899474
No earnings, no child under age 4	-70.9254084	4.039053767	-23.58410156	46.37027794	68.54632989	-33.07720438	33.20484915	-41.16622786
No earnings, no child under age 5	64.08089968	-40.07338651	-12.74904742	-35.9385046	-83.9584178	-37.56865368	-110.5692799	47.26143325
No earnings, no child under age 6	-24.61662259	78.62833848	1.529497206	-12.83124734	9.634961354	-25.48843841	138.6934967	-60.81964317
No earnings, multiple adults	88.81535029	1.525066627	32.35329543	52.35537445	-83.43997898	35.06920526	-59.8331783	-41.843937
Constant	140.9939566	290.9156802	245.7612402	126.8667976	273.4444827	235.1519114	277.6658026	517.0578862

Table A.9 (continued)

(Variables refer to TANF unit)	West Virginia	Wisconsin	Wyoming
1 person	25.20349755	75.55845706	102.1959376
2 people	7.270408073	183.0958414	12.6260811
3 people	18.20291238	200.6221869	-87.82694432
4 people	-0.92983644	213.6856208	-87.85690644
5 people	60.87308331	150.1637553	11.0061582
Have earnings	-115.536291	-24.03207257	153.1513077
Receive child support	29.33266564	28.58933332	-57.10554118
Earnings	-0.133618974	-0.079881848	-0.343401553
Child support	-0.113382942	0.001788533	0.039657594
Other income	-0.059700829	-0.003094698	-0.105484138
Child only	75.59794258	-13.38190765	142.3456493
Child under age 1	-4.19028465	79.65320886	-52.48206656
Child under age 2	-28.05969726	-34.20718004	15.91225023
Child under age 3	35.31774727	15.26073135	-45.82660403
Child under age 4	-18.2579652	-0.109335253	4.452930179
Child under age 5	-2.052253822	-4.820324579	77.10020042
Child under age 6	-0.073882022	22.96161244	-23.82678935
Adult age 18 to 24	-23.34464642	-0.535806884	74.11843457
Adult age 55 or older	-81.60306905	353.8773569	149.9547771
Adult age 60 or older	55.9614166	-192.8319612	-7.288743528
Adult age 65 or older	37.38056339	-499.2905577	0
Multiple adults	100.6123171	-359.3304638	-225.3413935
No earnings, child	0	0	0
No earnings, no child under age 1	18.69646147	178.5761741	-9.4950355
No earnings, no child under age 2	-1.035410406	-83.03185844	-78.70832383
No earnings, no child under age 3	26.01707592	34.22769611	20.69955002
No earnings, no child under age 4	-30.59241145	-62.4342443	263.1927826
No earnings, no child under age 5	-58.84104923	-127.6985707	-145.628819
No earnings, no child under age 6	72.51757233	150.6053539	42.36132736
No earnings, multiple adults	-62.60561759	372.4387177	74.16760796
Constant	266.0286831	157.0408334	-44.58115313

Table A.10a. State Broad-Based Categorical Eligibility Income, Asset, and Unit Composition Requirements, FY 2008

State(s)	Unit Composition	Asset Limit	Gross Income Limit	Net Income Limit
Delaware, Michigan, South Carolina, Wisconsin	All units	None	200	None
Georgia	Pure elderly or disabled	None	200	None
	All other	None	130	None
Massachusetts	Child (includes 18) and caretaker	None	200	None
Maine	Child (includes 18 and in HS) and caretaker	None	185	None
Maryland	Child (includes 18-19 and in HS)	None	200	None
Minnesota	Elderly or disabled	\$7,000 for financial assets	165	None
	All other		130	None
New York	Elderly or disabled	None	200	None
	All other	None	130	None
Texas	All units	\$5,000 (exclude \$15,000 FMV from one vehicle)	165	None
Arizona, Oregon	All units	None	185	None
Washington	All units	None	130	None
North Dakota	All units	None	None	100

Note: States without a BBCE policy in FY 2008 include Alabama, Alaska, Arkansas, California, Colorado, Connecticut, District of Columbia, Florida, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, West Virginia, and Wyoming.

Table A.10b. State Broad-Based Categorical Eligibility Income, Asset, and Unit Composition Requirements, FY 2009

State(s)	Unit Composition	Asset Limit	Income Limits	
			Gross	Net
Delaware, Michigan, Nevada, Washington, Wisconsin, South Carolina (first half)	All units	None	200	None
Ohio, West Virginia, Pennsylvania (first half), South Carolina (second half)	Elderly or disabled	None	200	None
	All other	None	130	None
Oklahoma (second half)	Elderly or disabled	None	None	None
	All other	None	130	None
Georgia	Pure elderly or disabled	None	200	None
	All other	None	130	None
Massachusetts	Child (includes 18) and caretaker, elderly, or disabled	None	200	None
	All other	None	130	100
Maine	Child (includes 18 and in HS) and caretaker	None	185	None
Maryland	Child (includes 18-19 and in HS)	None	200	None
California (second half)	Child with elderly or disabled	None	None	100
	Other units with child	None	130	100
New Hampshire (second half)	Child under 22 and caretaker	None	185	None
Minnesota	Elderly or disabled	\$7,000 for financial assets	165	None
	All other		130	None
New York	Elderly or disabled or dependent care expenses	None	200	None
	All other	None	130	None
Idaho (second half)	Elderly or disabled	None	200	100
	All other	None	130	100
Pennsylvania (second half)	Elderly or disabled	None	200	None
	All other	None	160	None
Texas	All units	\$5,000 (exclude \$15,000 FMV from one vehicle)	165	None
Arizona, Oregon, Connecticut (second half)	All units	None	185	None
Vermont	All units	None	185	100
Montana	Elderly or disabled	None	None	100
	All other	None	185	100
Rhode Island (second half)	Elderly or disabled	None	200	None
	All other	None	185	None
North Dakota	All units	None	None	100

Note: States without a BBCE policy in FY 2009 include Alabama, Alaska, Arkansas, Colorado, District of Columbia, Florida, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, North Carolina, South Dakota, Tennessee, Utah, Virginia, and Wyoming. The States that implemented a BBCE policy mid-year are California, Connecticut, Idaho, New Hampshire, Oklahoma, and Rhode Island.

Table A.11. SNAP Maximum Allowable Gross and Net Monthly Income Eligibility Standards, FY 2008 and FY 2009

SNAP Unit Size	Gross Income (\$)			Net Income (\$)		
	48 Contiguous States, Guam, and the Virgin Islands	Alaska	Hawaii	48 Contiguous States, Guam, and the Virgin Islands	Alaska	Hawaii
FY 2008						
1	1,107	1,384	1,273	851	1,065	980
2	1,484	1,855	1,707	1,141	1,427	1,313
3	1,861	2,326	2,140	1,431	1,790	1,646
4	2,238	2,798	2,573	1,721	2,152	1,980
5	2,615	3,269	3,007	2,011	2,515	2,313
6	2,992	3,740	3,440	2,301	2,877	2,646
7	3,369	4,211	3,873	2,591	3,240	2,980
8	3,746	4,683	4,307	2,881	3,602	3,313
Each Additional Member	377	472	434	290	363	334
FY 2009						
1	1,127	1,409	1,296	867	1,084	997
2	1,517	1,896	1,745	1,167	1,459	1,342
3	1,907	2,384	2,193	1,467	1,834	1,687
4	2,297	2,871	2,642	1,767	2,209	2,032
5	2,687	3,359	3,090	2,067	2,584	2,377
6	3,077	3,846	3,539	2,367	2,959	2,722
7	3,467	4,334	3,987	2,667	3,334	3,067
8	3,857	4,821	4,436	2,967	3,709	3,412
Each Additional Member	390	488	449	300	375	345

Source: U.S. Department of Agriculture

Table A.12. SNAP Net Income Regression Equation Results, FY 2008 and FY 2009

Explanatory Variable	FY 2008		FY 2009	
	Coefficients		Coefficients	
Constant	-243.41801	*	-282.62278	*
Gross income minus standard and earned income deductions	0.65007		0.21379	*
No housing expenses	160.20244	*	167.6714	*
Maximum allowable shelter expense deduction	-0.06453	*	-0.06924	*
Maximum allowable dependent care expense deduction	-0.01983	*	0	*
Earned income	-0.07284	*	-0.16525	*
TANF income	0.15082	*	0.10543	*
TANF income squared	-0.00014051	*	-0.0000958	*
SSI income	-0.01366	*	-0.06972	
SSI income squared	0.00003766	*	0.00009558	*
Gross income	0.54523	*	0.9013	*
Gross income squared	-0.00001371	*	0.00000729	*
Gross income between \$101 and \$200	150.34132	*	126.61994	*
Gross income between \$201 and \$300	127.50697	*	115.58705	*
Gross income between \$301 and \$400	82.72157	*	81.90787	*
Gross income between \$401 and \$500	38.30853	*	33.42467	*
Gross income as percent of poverty	-2.16593	*	-2.08595	*
In Alaska	-3.78074	*	-58.91693	
In Hawaii	69.93645	*	57.8091	*
In the Northeast region	-87.69473	*	-138.38284	*
In the Mid-Atlantic region	17.05863	*	17.34879	*
In the Southeast region	44.74404	*	58.25174	*
In the Midwest region	-2.95452		-0.96888	
In the Southwest region	59.5591	*	76.07109	*
In the Mountain Plains region	10.05121	*	26.86742	*
Participating in MFIP	48.26114	*	48.65797	*
SNAP unit size	-24.218	*	-25.29834	*
Member under age 60 and receiving SSI	32.20562	*	37.26134	*
Member age 60 or older and receiving SSI	35.03806	*	50.47647	*
Elderly member	16.75503		6.54721	*
Single adult with child(ren)	-25.22877	*	-22.66879	*
Multiple adults	-27.87481	*	-25.44308	*
R ²	0.8166		0.8149	
Adjusted R ²	0.8164		0.8148	
Sample Size	38,167		38,762	

*Indicates significance at the .05 level using a two-tailed t-test

Table A.13a. State Policies for Counting Vehicle Assets, FY 2008

	State(s)
Federal rules (Group 1)	North Dakota, Washington
Exempt all vehicles (Group 2)	Alabama, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Indiana, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Mississippi, Missouri, Montana, New Jersey, New Mexico, Ohio, Tennessee, Utah, Virginia, West Virginia, Wisconsin
Exempt one vehicle (Group 3)	Arkansas, Illinois, Iowa, Maine, Nevada, Pennsylvania, South Dakota
Exempt one vehicle per driver (Group 4)	Alaska, New York, South Carolina
Exempt one vehicle per adult (Group 5)	Idaho, New Hampshire, North Carolina
Exempt one vehicle per adult up to 2 vehicles (Group 6)	Rhode Island, Vermont
Exempt one vehicle per driver then \$5,000 equity for remaining vehicles	Oklahoma
Exempt \$7,500 fair market value from each vehicle	Minnesota
Exempt \$15,000 fair market value from one vehicle	Texas
Exempt \$12,000 fair market value from one vehicle	Nebraska
Exempt \$10,000 equity from combined value of all vehicles	Oregon
Exempt two vehicles for a unit with a married couple, one vehicle for other units	Wyoming
Exempt \$8,500 equity from combined value of as many vehicles as there are people subject to work requirements; if none, then exempt \$8,500 equity from one vehicle	Florida

Table A.13b. State Policies for Counting Vehicle Assets, FY 2009

	State(s)
Federal rules (Group 1)	North Dakota, Washington
Exempt all vehicles (Group 2)	Alabama, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Indiana, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Mississippi, Missouri, Montana, New Jersey, New Mexico, North Carolina, Ohio, Tennessee, Utah, Virginia, West Virginia, Wisconsin
Exempt one vehicle (Group 3)	Arkansas, Illinois, Iowa, Maine, Nevada, Pennsylvania, South Dakota
Exempt one vehicle per driver (Group 4)	Alaska, New York, South Carolina
Exempt one vehicle per adult (Group 5)	Idaho, New Hampshire
Exempt one vehicle per adult up to 2 vehicles (Group 6)	Rhode Island, Vermont
Exempt one vehicle per driver then \$5,000 equity for remaining vehicles	Oklahoma
Exempt \$7,500 fair market value from each vehicle	Minnesota
Exempt \$15,000 fair market value from one vehicle	Texas
Exempt \$12,000 fair market value from one vehicle	Nebraska
Exempt \$10,000 equity from combined value of all vehicles	Oregon
Exempt two vehicles for a unit with a married couple, one vehicle for other units	Wyoming

Table A.14a. SNAP Asset Eligibility Equation Coefficients, First Half of FY 2008

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
SNAP unit size	0.1518014					
SNAP unit size squared	-25.20515					
Homeowner	-0.891838	-0.961572	-0.968438	-0.955908	-0.955908	-0.959846
More than one SNAP unit in household	0.5161291	0.5559921	0.5626763	0.5352751	0.5352751	0.5380807
SNAP unit head is African American/Black	1.0421899	1.1489562	1.1348802	1.1497103	1.1497103	1.1491509
SNAP unit head is Hispanic	0.6447283	0.8732821	0.8928767	0.8948665	0.8948665	0.8829637
SNAP unit head is not white, Black, Hispanic, or Asian		0.3685337	0.4109351	0.3847354	0.3847354	0.3854356
SNAP unit's interest income	-256.0817	-251.9875	-253.3331	-253.8775	-253.8775	-253.7698
SNAP unit's dividend income		-38.41545	-39.41315	-38.38463	-38.38463	-38.34809
SNAP unit's gross income		0.7133424	0.72749	0.7087316	0.7087316	0.7121186
SNAP unit's earnings		-0.477115	-0.541818	-0.509981	-0.509981	-0.510633
Number of SSI units in the SNAP unit	1.4986332	2.3603342	2.4168061	2.3790446	2.3790446	2.3799551
Number of TANF units in the SNAP unit	0.8654184	1.2597233	1.2629262	1.2757949	1.2757949	1.2561893
Number of elderly (60+) in the SNAP unit	-0.402601	-0.432187	-0.445324	-0.440122	-0.440122	-0.439182
Number of high school graduates or equivalent in SNAP unit	-0.756475	-0.701826	-0.704321	-0.717578	-0.717578	-0.709259
Number of never-married adults in the SNAP unit	0.2039229	0.1197174	0.1322287	0.1324228	0.1324228	0.1340859
In South	0.2269171	0.3505501	0.3458083	0.3509135	0.3509135	0.3536454
In West	-0.180535					
SNAP unit's interest income by homeowner	14.921457	13.930833	13.938749	13.652997	13.652997	13.70164
SNAP unit's gross income by homeowner	-0.364442					
SNAP unit's earnings by homeowner	0.4607135					
SNAP unit's interest income by high school graduates	9.7553919	9.625959	8.921478	9.251399	9.251399	9.1746757
SNAP unit's dividend income by high school graduates	-45.06919	-29.42991	-28.84375	-29.09325	-29.09325	-29.18073
SNAP unit's rental income by high school graduates	-6.809551	-2.173779	-7.986593	-2.165003	-2.165003	-2.162129
SNAP unit's gross income by high school graduates	0.2941589	0.3395634	0.3526465	0.3575305	0.3575305	0.3528348
SNAP unit's dividend income by interest income		-2690.43	-2670.968	-2668.098	-2668.098	-2670.357
SNAP unit's rental income by interest income	283.73631	307.57707	165.45363	309.59304	309.59304	309.41791
SNAP unit's interest income squared	3623991.6	3605781.6	3644060.2	3649389.7	3649389.7	3648316.6
SNAP unit's dividend income squared	71265.572	215453.73	215894.65	214003.75	214003.75	214235.07
SNAP unit's rental income squared	40796.987		39013.972			
SNAP unit's gross income squared	2018.3545					
SNAP unit's interest income to the third power	-15020000000	-15150000000	-15290000000	-15320000000	-15320000000	-15320000000
SNAP unit's rental income to the third power	-42569726		-31285864			
SNAP unit's gross income to the third power	-1197429					
SNAP unit's earnings to the third power	-2184133					
SNAP unit's gross income to the fourth power		-169830000	-166620000	-168370000	-168370000	-167960000
SNAP unit's earnings to the fourth power	1244940000					
Constant	1.8181731	2.0456448	2.01267	2.041801	2.041801	2.0344109

Note: Groups are defined in Table A.13a

Table A.14a (continued)

	Oklahoma	Minnesota	Texas	Nebraska	Oregon	Wyoming	Florida
Homeowner	-0.963845	-0.980164	-0.980799	-0.997681	-0.959728	-0.971959	-0.976216
More than one SNAP unit in household	0.5636519	0.5690589	0.5434912	0.5711098	0.5676004	0.56385	0.5751449
SNAP unit head is African American/Black	1.1556557	1.1367921	1.1600193	1.145765	1.0815686	1.1811226	1.1323494
SNAP unit head is Hispanic	0.8819561	0.8592743	0.8920102	0.9454315	0.8535818	0.883924	0.8477651
SNAP unit head is not white, Black, Hispanic, or Asian	0.3760628		0.3818988	0.3234996		0.3982549	
SNAP unit's interest income	-252.0132	-257.6895	-254.2985	-251.7984	-252.538	-252.8861	-256.6198
SNAP unit's dividend income	-38.53054	-36.83767	-39.41127	-38.96542	-39.07878	-38.19911	-38.74314
SNAP unit's gross income	0.7182524	0.7797859	0.7177493	0.7829913	0.7382095	0.7062675	0.6861106
SNAP unit's earnings	-0.487594		-0.522264			-0.512857	-0.523625
Number of SSI units in the SNAP unit	2.3661319	1.5842891	2.0719481	2.0570124	1.8078765	2.3882696	1.6949156
Number of TANF units in the SNAP unit	1.2669203	0.8748868	1.2178628	1.2094517	1.0894776	1.2653972	0.9783276
Number of elderly (60+) in the SNAP unit	-0.428627	-0.415606	-0.417763	-0.438911	-0.419421	-0.462852	-0.410618
Number of high school graduates or equivalent in SNAP unit	-0.700395	-0.743267	-0.732461	-0.74726	-0.788741	-0.70457	-0.732605
Number of never-married adults in SNAP unit	0.1215784	0.1585813	0.1443135	0.1411879	0.1471078		0.1286099
In South	0.3521427	0.2328597	0.3355652	0.2800883	0.3204225	0.3401159	0.2373803
In West		-0.162679		-0.153166			-0.16536
SNAP unit's interest income by homeowner	13.865203	15.335677	13.665591	14.131058	13.663559	13.667191	14.713171
SNAP unit's interest income by high school graduates	9.6608243	9.442232	9.5377397	9.7270307	8.7560055	9.3574405	8.1021096
SNAP unit's dividend income by high school graduates	-29.39434	-26.01062	-28.26509	-27.65594	-27.3402	-29.14404	-26.60545
SNAP unit's rental income by high school graduates	-2.165483	-2.076313	-7.713781	-7.799878	-7.486471	-2.144436	-7.248211
SNAP unit's gross income by high school graduates	0.3372322	0.3378989	0.3563478	0.3582039	0.3685656	0.3549888	0.3519276
SNAP unit's dividend income by interest income	-2696.677	-2464.644	-2642.109	-2593.703	-2607.799	-2662.484	-2541.302
SNAP unit's rental income by interest income	307.16636	299.50137	169.72803	169.73717	170.5212	306.66457	170.04638
SNAP unit's interest income squared	3607694.9	3669718.8	3582398	3539223.2	3651325.6	3624756.3	3739200.7
SNAP unit's dividend income squared	215735.47	197106.73	213589.97	209786.77	209199.71	213721.48	204712.42
SNAP unit's rental income squared			38026.302	38852.082	36797.676		36668.759
SNAP unit's interest income to third power	-15160000000	-15290000000	-14790000000	-14630000000	-15340000000	-15200000000	-15760000000
SNAP unit's rental income to the third power			-30590721	-31322564	-29626395		-29749412
SNAP unit's earnings to the third power		-1425114		-1418700	-1402895		
SNAP unit's gross income to the fourth power	-168630000	-203400000	-173730000	-195900000	-192290000	-168020000	-172730000
SNAP unit's earnings to the fourth power		844841310		820323690	813031540		
Constant	2.0341753	2.0449217	2.036927	2.0682123	2.0720494	2.0862398	2.1110846

Source: 2012 Baseline of 2009 MATH SIPP+ model

Table A.14b. SNAP Asset Eligibility Equation Coefficients, Second Half of FY 2008

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
SNAP unit size	0.139855					
SNAP unit size squared	-22.86013					
Homeowner	-0.928531	-0.904312	-0.919904	-0.896424	-0.896424	-0.900783
More than one SNAP unit in household	0.5374891	0.5653311	0.5834331	0.5517806	0.5517806	0.5545993
SNAP unit head is African American/Black	1.0425849	1.1111988	1.1123769	1.1272325	1.1272325	1.1264599
SNAP unit head is Hispanic	0.7969125	1.0283304	1.0487425	1.0557937	1.0557937	1.0442936
SNAP unit head is not white, Black, Hispanic, or Asian	0.3141635	0.433336	0.4861561	0.4545721	0.4545721	0.456048
SNAP unit's interest income	-254.8709	-254.8353	-256.2429	-255.96	-255.96	-255.8512
SNAP unit's dividend income	-40.24443	-36.35723	-36.9171	-36.37328	-36.37328	-36.33781
SNAP unit's gross income		0.6702414	0.6901915	0.6683749	0.6683749	0.6704788
SNAP unit's earnings	-0.502001	-0.417607	-0.482381	-0.443718	-0.443718	-0.444473
Number of SSI units in the SNAP unit	1.4245149	2.1056749	2.1498284	2.1217193	2.1217193	2.1227471
Number of TANF units in the SNAP unit	0.886197	1.1920517	1.1967285	1.2060572	1.2060572	1.1885742
Number of elderly (60+) in the SNAP unit	-0.431952	-0.460509	-0.477602	-0.470791	-0.470791	-0.469773
Number of high school graduates or equivalent in SNAP unit	-0.744957	-0.659752	-0.654794	-0.668061	-0.668061	-0.660297
Number of never-married adults in the SNAP unit	0.2054224	0.1527786	0.1626094	0.1654379	0.1654379	0.1670759
In South	0.1748293	0.2754304	0.2545949	0.2618425	0.2618425	0.2629994
In West	-0.217234	-0.164556	-0.201489	-0.191181	-0.191181	-0.195653
SNAP unit's interest income by homeowner	10.679653	10.442836	10.97055	10.559701	10.559701	10.608284
SNAP unit's rental income by homeowner			9.7291501			
SNAP unit's interest income by high school graduates	8.2087939	7.8361175	7.6457515	7.939417	7.939417	7.8708298
SNAP unit's dividend income by high school graduates	-19.8336	-28.58001	-27.56636	-28.26061	-28.26061	-28.32792
SNAP unit's rental income by high school graduates	-6.524131	-2.169672	-7.507637	-2.15763	-2.15763	-2.153986
SNAP unit's gross income by high school graduates	0.3690096	0.3594189	0.3636789	0.367231	0.367231	0.363323
SNAP unit's dividend income by interest income	-2272.011	-2405.345	-2378.577	-2390.23	-2390.23	-2391.794
SNAP unit's rental income by interest income	270.65875	320.40164	274.93883	321.03922	321.03922	320.94786
SNAP unit's interest income squared	3532180.7	3536004.5	3566830.7	3558816.3	3558816.3	3557749.9
SNAP unit's dividend income squared	177592.08	199426.28	197273.1	198251.25	198251.25	198390.79
SNAP unit's rental income squared	36719.011					
SNAP unit's gross income squared	655.73563					
SNAP unit's interest income to the third power	-13960000000	-14050000000	-14200000000	-14170000000	-14170000000	-14160000000
SNAP unit's rental income to the third power	-36384862		-2839542			
SNAP unit's gross income to the fourth power	-262490000	-155830000	-151390000	-152040000	-152040000	-151590000
Constant	1.8239774	1.9238085	1.900351	1.9206183	1.9206183	1.9158129

Note: Groups are defined in Table A.13a.

Table A.14b (continued)

	Oklahoma	Minnesota	Texas	Nebraska	Oregon	Wyoming	Florida
Homeowner	-0.907999	-0.931033	-0.929098	-0.933135	-0.916307	-0.897064	-0.921411
More than one SNAP unit in household	0.5735142	0.5933931	0.5754405	0.5884521	0.5791558	0.5632233	0.6026664
SNAP unit head is African American/Black	1.1169609	1.0898509	1.1321637	1.1212051	1.0483817	1.1381528	1.1070832
SNAP unit head is Hispanic	1.0413557	0.9621747	1.0411638	1.0536597	1.0190782	1.040939	0.9519421
SNAP unit head is not white, Black, Hispanic, or Asian	0.4440178		0.4462588	0.3925618	0.2910263	0.4616394	
SNAP unit's interest income	-254.974	-253.075	-256.6476	-255.3023	-257.0413	-255.1546	-253.5699
SNAP unit's dividend income	-36.47136	-35.43459	-36.91558	-36.72709	-36.82567	-36.33417	-36.27833
SNAP unit's gross income	0.6728211	0.6007062	0.6435875	0.6477125	0.6076076	0.6763806	0.6274843
SNAP unit's earnings	-0.428981	-0.441469	-0.467172	-0.470463	-0.482682	-0.448499	-0.49187
Number of SSI units in the SNAP unit	2.1110832	1.5192096	1.9636705	1.9533875	1.717173	2.1282541	1.6103754
Number of TANF units in the SNAP unit	1.1996401	0.8843252	1.1568324	1.1647666	1.0655642	1.1964599	0.9602895
Number of elderly (60+) in the SNAP unit	-0.456923	-0.435502	-0.459086	-0.465705	-0.442234	-0.470615	-0.45213
Number of high school graduates or equivalent in SNAP unit	-0.658433	-0.714991	-0.69459	-0.703162	-0.744928	-0.659041	-0.705494
Number of never-married adults in SNAP unit	0.154553	0.1782542	0.1673351	0.1588832	0.1644965	0.1456002	0.1498954
In South	0.2707461	0.1973251	0.2438017	0.2415601	0.2288908	0.2606446	0.2106436
In West	-0.182666	-0.210874	-0.203606	-0.195485	-0.201868	-0.188027	-0.198943
SNAP unit's interest income by homeowner	10.416122	12.970646	11.901569	12.01099	10.630443	10.506309	11.643726
SNAP unit's rental income by homeowner		7.958575	9.6678586	9.6635763	9.4474604		9.4809765
SNAP unit's interest income by high school graduates	7.8845132		7.5620179	7.6790131	7.3608592	7.9829499	
SNAP unit's dividend income by high school graduates	-28.48877	-25.23137	-27.0719	-26.65221	-25.98334	-28.19413	-25.911
SNAP unit's rental income by high school graduates	-2.159059	-6.166878	-7.388675	-7.35027	-7.14817	-2.145816	-7.150287
SNAP unit's gross income by high school graduates	0.3579278	0.4125164	0.389747	0.3859112	0.4060295	0.358403	0.4179388
SNAP unit's dividend income by interest income	-2406.344	-2203.508	-2356.938	-2336.467	-2307.541	-2387.396	-2261.312
SNAP unit's rental income by interest income	320.46024	278.05998	272.61543	270.3883	272.82245	319.46695	274.91252
SNAP unit's interest income squared	3539773.8	3670129.6	3562188.3	3539111	3599492.9	3544345.3	3688902.2
SNAP unit's dividend income squared	199442.55	183970.4	195423.36	193399.34	191028.76	197912.67	188822.31
SNAP unit's interest income to third power	-14070000000	-14670000000	-14160000000	-14070000000	-14340000000	-14100000000	-14750000000
SNAP unit's rental income to third power		-2513899	-2862685	-2879718	-2867826		-2886839
SNAP unit's gross income to fourth power	-154550000	-155990000	-149470000	-146530000	-153720000	-150980000	-161240000
Constant	1.9202176	1.937015	1.941279	1.9369737	2.001291	1.9103882	1.9611208

Source: 2012 Baseline of 2009 MATH SIPP+ model

Table A.14c. SNAP Asset Eligibility Equation Coefficients, First Half of FY 2009

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
SNAP unit size squared	-6.646709					
Homeowner	-0.934075	-0.895351	-0.910828	-0.882751	-0.882751	-0.892231
More than one SNAP unit in household	0.4997752	0.5136464	0.5360206	0.4948109	0.4948109	0.507766
SNAP unit head is African American/Black	1.041672	1.1211493	1.0848188	1.127867	1.127867	1.1264414
SNAP unit head is Hispanic	0.5556651	0.7216697	0.7644262	0.7472298	0.7472298	0.7490856
SNAP unit head is not white, Black, Hispanic, or Asian		0.5168028	0.5654644	0.5398591	0.5398591	0.5331022
SNAP unit's interest income	-80.96584	-80.69475	-80.96895	-81.13504	-81.13504	-81.35018
SNAP unit's dividend income	-19.88522					
SNAP unit's gross income	0.5900152	0.4804889	0.8047697	0.4766437	0.4766437	0.8014667
SNAP unit's earnings			-0.451231			-0.435844
Number of SSI units in the SNAP unit	1.5412783	2.5439656	2.6162735	2.563723	2.563723	2.5721519
Number of TANF units in the SNAP unit	1.0677305	1.6640291	1.5967757	1.6861449	1.6861449	1.6598625
Number of elderly (60+) in the SNAP unit	-0.4638	-0.476683	-0.490824	-0.478492	-0.478492	-0.497919
Number of high school graduates or equivalent in SNAP unit	-0.707691	-0.584312	-0.596388	-0.595888	-0.595888	-0.609341
Number of never-married adults in the SNAP unit	0.1735217	0.1312418	0.1419845	0.1391278	0.1391278	0.145605
In South	0.3572927	0.4493852	0.4366216	0.4411692	0.4411692	0.4420938
SNAP unit's interest income by homeowner	5.5668127	5.3115305	5.502794	5.2849771	5.2849771	5.4136404
SNAP unit's dividend income by high school graduates	-16.12661	-39.1053	-40.48715	-38.76069	-38.76069	-39.56977
SNAP unit's rental income by high school graduates	-2.157484	-1.842017	-6.819475	-1.831802	-1.831802	-1.842555
SNAP unit's gross income by high school graduates	0.280094	0.3635932	0.2729825	0.3818213	0.3818213	0.2935705
SNAP unit's earnings by high school graduates		-0.256239		-0.272054	-0.272054	
SNAP unit's dividend income by interest income	-7980.064	-7636.723	-7338.775	-7573.007	-7573.007	-7617.974
SNAP unit's rental income by interest income	190.41452	175.8242	66.157946	175.93579	175.93579	176.69679
SNAP unit's gross income by interest income	9.5640362	8.0805319	8.1743582	8.2482527	8.2482527	8.2622668
SNAP unit's interest income squared	216180.12	218599.1	219080.68	219773.84	219773.84	220054.17
SNAP unit's dividend income squared	113971.51	124182.63	127515.62	122930.59	122930.59	125515.36
SNAP unit's rental income squared			33048.122			
SNAP unit's interest income to the third power	-171900000	-172790000	-173440000	-173800000	-173800000	-174120000
SNAP unit's rental income to the third power			-26307911			
SNAP unit's gross income to the third power			-297567.6			-304873.4
SNAP unit's earnings to the third power	-1298487					
SNAP unit's gross income to the fourth power	-166310000	-143860000		-143350000	-143350000	
SNAP unit's earnings to the fourth power	775401770					
Constant	2.0281772	2.0160961	1.9780819	1.9947711	1.9947711	1.9938495

Note: Groups are defined in Table A.13b.

Table A.14c (continued)

	Oklahoma	Minnesota	Texas	Nebraska	Oregon	Wyoming
Homeowner	-0.893952	-0.927318	-0.918596	-0.926797	-0.920816	-0.904588
More than one SNAP unit in household	0.5189292	0.5386488	0.5126854	0.523578	0.5575582	0.5267878
SNAP unit head is African American/Black	1.1275472	1.1256969	1.1049185	1.108495	1.1179692	1.1635138
SNAP unit head is Hispanic	0.7271577	0.7007675	0.7654884	0.7432516	0.7472276	0.7420996
SNAP unit head is not white, Black, Hispanic, or Asian	0.522121		0.5222691	0.4909675	0.3921133	0.5562545
SNAP unit's interest income	-80.60098	-83.20631	-84.39009	-83.5121	-81.27065	-80.99777
SNAP unit's gross income	0.4840454	0.4924433	0.5772164	0.499136	0.5722689	0.4670251
SNAP unit's earnings			-0.443189		-0.415994	
Number of SSI units in the SNAP unit	2.5468429	1.6516004	2.3343693	2.1592888	1.9448815	2.5786186
Number of TANF units in the SNAP unit	1.6690649	1.1262975	1.5783521	1.5362185	1.4160612	1.6016216
Number of elderly (60+) in the SNAP unit	-0.473904	-0.412258	-0.492994	-0.445127	-0.455799	-0.491268
Number of high school graduates or equivalent in SNAP unit	-0.580269	-0.602524	-0.636393	-0.620502	-0.668953	-0.57693
Number of never-married adults in the SNAP unit	0.1294254	0.1829258	0.1562805	0.145577	0.1547692	
In South	0.4464425	0.366849	0.4260746	0.4148256	0.4059741	0.4345256
SNAP unit's interest income by homeowner	5.2937882	5.7114762	5.5782709	5.5136238	5.5430041	5.27973
SNAP unit's dividend income by high school graduates	-39.11989	-37.00275	-39.76302	-38.79001	-39.16918	-38.62815
SNAP unit's rental income by high school graduates	-1.839921	-5.839111	-6.574919	-6.518377	-6.281449	-1.803148
SNAP unit's gross income by high school graduates	0.3624673	0.311176	0.2967983	0.3603324	0.2859642	0.3638606
SNAP unit's earnings by high school graduates	-0.258062	-0.238831		-0.278775		-0.261555
SNAP unit's dividend income by interest income	-7646.384	-7807.496	-7260.072	-7172.331	-7947.646	-7532.703
SNAP unit's rental income by interest income	175.65961	71.75514	71.216303	68.957499	67.413971	173.24159
SNAP unit's gross income by interest income	8.0631744	8.8685597	8.8721077	9.0975463	8.5133237	8.2747405
SNAP unit's interest income squared	218378.78	225825.93	228693.82	225281.42	219789.74	219215.46
SNAP unit's dividend income squared	124297.06	118797.35	124831.27	121701.54	125343.1	122308
SNAP unit's rental income squared		28807.57	32031.671	32000.093	31026.895	
SNAP unit's interest income to the third power	-172590000	-179660000	-181440000	-178690000	-174460000	-173370000
SNAP unit's rental income to the third power		-22944948	-25595741	-25530640	-24826558	
SNAP unit's gross income to the fourth power	-143630000	-150940000	-132970000	-150590000	-144130000	-141090000
Constant	2.0036239	1.9589171	2.0420491	2.0037997	2.0620511	2.0429904

Source: 2012 Baseline of 2009 MATH SIPP+ model

Table A.14d. SNAP Asset Eligibility Equation Coefficients, Second Half of FY 2009

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
SNAP unit size squared	-7.198562					
Homeowner	-0.916589	-0.910826	-0.917649	-0.899647	-0.899647	-0.903806
More than one SNAP unit in household	0.5059262	0.5477042	0.549601	0.5226803	0.5226803	0.5256836
SNAP unit head is African American/Black	1.0573432	1.1354656	1.0988404	1.1428421	1.1428421	1.1424114
SNAP unit head is Hispanic	0.5975981	0.7275375	0.7545812	0.756262	0.756262	0.744658
SNAP unit head is not white, Black, Hispanic, or Asian	0.3818081	0.6141482	0.661225	0.6386623	0.6386623	0.6393758
SNAP unit's interest income	-75.22496	-81.19982	-81.6353	-81.59505	-81.59505	-81.59658
SNAP unit's dividend income	-19.24172					
SNAP unit's rental income	-2.644662	-2.707155	-2.702545	-2.698842	-2.698842	-2.695404
SNAP unit's gross income	0.4523971	0.5524399	0.5808143	0.5620329	0.5620329	0.5659803
SNAP unit's earnings	-0.444169	-0.429571	-0.479531	-0.457251	-0.457251	-0.457941
Number of SSI units in the SNAP unit	1.5327971	2.6014677	2.6588052	2.6232087	2.6232087	2.6248375
Number of TANF units in the SNAP unit	1.0556853	1.5993964	1.5321563	1.6235202	1.6235202	1.593724
Number of elderly (60+) in the SNAP unit	-0.457042	-0.510379	-0.510477	-0.513703	-0.513703	-0.512761
Number of high school graduates or equivalent in SNAP unit	-0.711057	-0.62392	-0.62161	-0.635102	-0.635102	-0.626809
Number of never-married adults in the SNAP unit	0.1800077	0.1332555	0.1410381	0.1441629	0.1441629	0.1457814
In South	0.3124053	0.4515755	0.4423528	0.4447827	0.4447827	0.4474519
In West	-0.143289					
SNAP unit's interest income by homeowner		6.0254323	6.2400283	6.0055385	6.0055385	6.0259847
SNAP unit's dividend income by high school graduates	-18.03236	-42.32772	-41.31801	-41.92331	-41.92331	-41.97809
SNAP unit's gross income by high school graduates	0.3051241	0.318185	0.301893	0.3302725	0.3302725	0.3253377
SNAP unit's dividend income by interest income	-7323.254	-6592.43	-6546.658	-6563.555	-6563.555	-6570.496
SNAP unit's rental income by interest income	254.72352	252.38395	241.06362	252.72826	252.72826	252.61572
SNAP unit's gross income by interest income	9.459403	8.012831	8.1974823	8.1617137	8.1617137	8.1588034
SNAP unit's interest income squared	196507.93	217358.39	218359.01	218409.04	218409.04	218381.29
SNAP unit's dividend income squared	120335.7	139982.14	136312.42	138436.23	138436.23	138675.92
SNAP unit's interest income to the third power	-147210000	-170840000	-172020000	-171750000	-171750000	-171740000
SNAP unit's gross income to the fourth power	-128200000	-131800000	-127450000	-131640000	-131640000	-131300000
Constant	2.0941648	2.0820682	2.0425544	2.0571062	2.0571062	2.0498803

Note: Groups are defined in Table A.13b.

Table A.14d (continued)

	Oklahoma	Minnesota	Texas	Nebraska	Oregon	Wyoming
Homeowner	-0.909493	-0.932344	-0.924756	-0.935435	-0.926204	-0.922878
More than one SNAP unit in household	0.553216	0.564965	0.5264292	0.5454531	0.5786999	0.5546992
SNAP unit head is African American/Black	1.1419879	1.1493092	1.1185239	1.1206474	1.1309556	1.1789303
SNAP unit head is Hispanic	0.7336586	0.7346311	0.7501263	0.7687818	0.7300623	0.7495797
SNAP unit head is not white, Black, Hispanic, or Asian	0.6193908	0.3327269	0.6095024	0.5719395	0.4676546	0.6561485
SNAP unit's interest income	-81.11243	-84.07803	-85.19894	-84.46528	-82.05777	-81.46046
SNAP unit's rental income	-2.705533	-2.514985	-2.682511	-2.62447	-2.552193	-2.669028
SNAP unit's gross income	0.5582818	0.5589371	0.5454142	0.5865907	0.5378443	0.5491903
SNAP unit's earnings	-0.435927	-0.407684	-0.475028	-0.472395	-0.447945	-0.439993
Number of SSI units in the SNAP unit	2.6044964	1.6502859	2.3559886	2.1805432	1.9507704	2.6374625
Number of TANF units in the SNAP unit	1.6044919	1.083044	1.5127613	1.4788892	1.3594021	1.5420875
Number of elderly (60+) in the SNAP unit	-0.508959	-0.451608	-0.510083	-0.49123	-0.472444	-0.526539
Number of high school graduates or equivalent in SNAP unit	-0.619914	-0.64197	-0.664199	-0.669244	-0.695005	-0.614611
Number of never-married adults in the SNAP unit	0.1315955	0.1794162	0.1552049	0.146492	0.1517796	
In South	0.4485913	0.3717429	0.429453	0.4240797	0.4073187	0.4377076
SNAP unit's interest income by homeowner	6.0072848	6.5445709	6.3607697	6.3728342	6.2990956	6.0138173
SNAP unit's dividend income by high school graduates	-42.35393	-38.03149	-40.77952	-40.19296	-39.40953	-41.90871
SNAP unit's gross income by high school graduates	0.3169345	0.2662843	0.3258404	0.3085512	0.3132353	0.3138995
SNAP unit's dividend income by interest income	-6601.653	-7154.681	-6473.803	-6472.369	-7289.921	-6452.524
SNAP unit's rental income by interest income	252.20182	243.91388	246.19004	243.7327	238.393	250.67369
SNAP unit's gross income by interest income	7.994913	8.9213232	9.0515627	9.1168506	8.695903	8.1833611
SNAP unit's interest income squared	217161.19	225224.2	227621.92	225004.77	218753.08	217850.93
SNAP unit's dividend income squared	140125.89	126018.94	134254.09	132085.23	130401.89	138405.03
SNAP unit's interest income to the third power	-170670000	-178290000	-179660000	-177650000	-172750000	-171340000
SNAP unit's gross income to the fourth power	-131670000	-134090000	-123620000	-134930000	-134030000	-129670000
Constant	2.0698015	2.0109809	2.0869984	2.0744627	2.1088424	2.1071399

Source: 2012 Baseline of 2009 MATH SIPP+ model

Table A.14e. SNAP Asset Eligibility Equation Coefficients, FY 2010

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
SNAP unit size squared	-5.9813044					
Homeowner	-0.87273001	-0.80377583	-0.82789436	-0.79310894	-0.79310894	-0.7973804
More than one SNAP unit in household	0.46571397	0.49945855	0.50967741	0.48111018	0.48111018	0.48406133
SNAP unit head is African American/Black	1.0255211	1.1235447	1.1004057	1.134594	1.134594	1.1343427
SNAP unit head is Hispanic	0.54719539	0.87618593	0.90983081	0.90966794	0.90966794	0.89989668
SNAP unit head is not white, Black, Hispanic, or Asian	0.3702534	0.63139171	0.69089442	0.65889181	0.65889181	0.66038521
SNAP unit's interest income	-83.215797					
SNAP unit's rental income	-11.105991	-2.2083527	-13.749763	-2.1900968	-2.1900968	-2.1859248
SNAP unit's gross income	0.50452153	0.73121943	0.76897269	0.74355409	0.74355409	0.7450159
SNAP unit's earnings	-0.37721633	-0.3987193	-0.46394417	-0.42774772	-0.42774772	-0.42819892
Number of SSI units in the SNAP unit	1.4051858	2.1589274	2.218914	2.179031	2.179031	2.1806045
Number of TANF units in the SNAP unit	1.079778	1.5175094	1.4509148	1.5382344	1.5382344	1.514559
Number of elderly (60+) in the SNAP unit	-0.41051693	-0.5499791	-0.55815953	-0.55501252	-0.55501252	-0.55445673
Number of high school graduates or equivalent in SNAP unit	-0.6240885	-0.52303383	-0.51795141	-0.52643049	-0.52643049	-0.51913012
Number of never-married adults in the SNAP unit	0.14781164					
In South	0.32317945	0.41887293	0.39965715	0.39802445	0.39802445	0.39891336
In West		-0.14777169	-0.16695129	-0.17202383	-0.17202383	-0.17583986
SNAP unit's interest income by homeowner	5.1466584	-14.40603	-13.862754	-14.258946	-14.258946	-14.218337
SNAP unit's rental income by homeowner	9.212359		11.798181			
SNAP unit's interest income by high school graduates		-18.048863	-17.736497	-17.890581	-17.890581	-17.912171
SNAP unit's dividend income by high school graduates	-32.123933	-39.998197	-38.677536	-39.616198	-39.616198	-39.647947
SNAP unit's gross income by high school graduates	0.21002193	0.30224713	0.27536999	0.30403224	0.30403224	0.29991855
SNAP unit's earnings by high school graduates						
SNAP unit's dividend income by interest income	-8060.1692	-8300.522	-8289.78	-8270.6929	-8270.6929	-8279.8633
SNAP unit's rental income by interest income	164.85574	175.16623	160.11813	174.13752	174.13752	174.01628
SNAP unit's gross income by interest income	8.3685256	-13.443706	-13.594665	-13.471669	-13.471669	-13.473547
SNAP unit's interest income squared	237349.83					
SNAP unit's dividend income squared	105528.36	131649.46	127110.64	130239.33	130239.33	130374.84
SNAP unit's interest income to the third power	-196194580	72174691	71290062	71801805	71801805	71803795
SNAP unit's gross income to the third power		-263641.55	-253545.7	-261757.45	-261757.45	-260570.09
SNAP unit's gross income to the fourth power	-126302690					
Constant	1.8220787	1.7980701	1.7798562	1.7841597	1.7841597	1.7805001

Note: Groups are defined in Table IV.5

Table A.14e (continued)

	Oklahoma	Minnesota	Texas	Nebraska	Oregon	Wyoming
Homeowner	-0.80773606	-0.88149378	-0.84823082	-0.85270177	-0.87225296	-0.79819186
More than one SNAP unit in household	0.50744912	0.54400833	0.51433461	0.53581096	0.53602982	0.48992905
SNAP unit head is African American/Black	1.1292004	1.1116311	1.1127955	1.1155017	1.05721	1.144257
SNAP unit head is Hispanic	0.89287223	0.80511565	0.89174556	0.91172512	0.83803737	0.90191294
SNAP unit head is not white, Black, Hispanic, or Asian	0.64409978	0.39510294	0.62810471	0.54717748	0.40258723	0.66742654
SNAP unit's interest income		-82.998087			-83.088592	
SNAP unit's rental income	-2.1913335	-11.591289	-13.722808	-13.515589	-12.010657	-2.1551774
SNAP unit's gross income	0.56591291	0.40780342	0.59123864	0.58977166	0.39114357	0.74481284
SNAP unit's earnings	-0.40420721		-0.45426847	-0.43063766		-0.41706774
Number of SSI units in the SNAP unit	2.1694894	1.4234712	2.0303414	1.8384535	1.5913682	2.1916905
Number of TANF units in the SNAP unit	1.5276641	1.0160417	1.4102284	1.4098039	1.1726168	1.4567441
Number of elderly (60+) in the SNAP unit	-0.54832995	-0.40742329	-0.53358809	-0.52749638	-0.4906707	-0.54074442
Number of high school graduates or equivalent in SNAP unit	-0.51731871	-0.6076123	-0.56967516	-0.5742309	-0.61959382	-0.51233383
Number of never-married adults in the SNAP unit		0.11720405				
In South	0.41591087	0.31362633	0.38476287	0.36570408	0.32159065	0.4060263
In West	-0.1637853	-0.15377187	-0.15126086	-0.1552072	-0.17762449	-0.16149006
SNAP unit's interest income by homeowner	-14.385484	5.5298397	-13.706304	-13.751211	5.0323628	-14.229257
SNAP unit's rental income by homeowner		9.9858146	11.864749	11.723072	10.202906	
SNAP unit's interest income by high school graduates	-17.931869		-17.729681	-17.751276		-17.850337
SNAP unit's dividend income by high school graduates	-39.692087	-34.99401	-37.64942	-37.188887	-36.874276	-39.532893
SNAP unit's gross income by high school graduates	0.2976564	0.35652936	0.29445354	0.28520529	0.39957222	0.27951082
SNAP unit's earnings by high school graduates		-0.25460204			-0.28264556	
SNAP unit's dividend income by interest income	-8355.4252	-8350.7691	-8282.031	-8861.6217	-7844.3306	-8271.5411
SNAP unit's rental income by interest income	173.37798	149.85647	155.66175	154.4997	152.65332	173.31926
SNAP unit's gross income by interest income	-13.523593	8.0200281	-13.421575	-13.088407	8.091405	-13.482821
SNAP unit's interest income squared		236192.05			235713.85	
SNAP unit's dividend income squared	130671.72	115344.15	123527.59	123924.54	119879.27	130067.77
SNAP unit's interest income to the third power	72113567	-195063340	70805998	70313314	-193901560	71716962
SNAP unit's gross income to the third power						-256565.2
SNAP unit's gross income to the fourth power	-120032990	-141189710	-125677460	-130209500	-131857930	
Constant	1.8106643	1.8827862	1.8424583	1.8390491	2.0162091	1.7650103

Source: 2012 Baseline of 2009 MATH SIPP+ model

Table A.15. Maximum and Minimum Monthly SNAP Benefits, FY 2008 and 2009

	Contiguous United States	Alaska	Hawaii
FY 2008			
Maximum Monthly SNAP Benefits by Unit Size			
1	\$162	\$194	\$258
2	298	356	473
3	426	510	678
4	542	648	861
5	643	770	1,022
6	772	924	1,227
7	853	1,021	1,356
8	975	1,167	1,549
Each Additional Member	122	146	194
Minimum Monthly SNAP Benefits by Unit Size			
1 – 2	\$10	\$10	\$10
First Half of FY 2009			
Maximum Monthly SNAP Benefits by Unit Size			
1	\$176	\$210	\$276
2	323	385	506
3	463	552	725
4	588	701	921
5	698	833	1,094
6	838	999	1,313
7	926	1,105	1,451
8	1,058	1,263	1,658
Each Additional Member	132	158	207
Minimum Monthly SNAP Benefits by Unit Size			
1 – 2	\$14	\$17	\$22
Second Half of FY 2009			
Maximum Monthly SNAP Benefits by Unit Size			
1	\$200	\$239	\$314
2	367	438	575
3	526	627	824
4	668	797	1,046
5	793	946	1,243
6	952	1,135	1,491
7	1,052	1,255	1,648
8	1,202	1,434	1,884
Each Additional Member	150	179	236
Minimum Monthly SNAP Benefits by Unit Size			
1 – 2	\$16	\$19	\$25

Source: U.S. Department of Agriculture

Table A.16. Number of Cases Sampled, Dropped from the Edited File, and Included on the Edited File, FY 2008 and FY 2009

	Number
2008	
Cases sampled	58,367
Cases not subject to review	2,587
Cases deselected to correct for oversampling	1
Cases subject to review	55,779
Incomplete cases	4,492
Cases completed	51,287
SNAP units not eligible for a positive benefit	929
SNAP units not eligible for SNAP	50,358
SNAP units eligible for a positive benefit	144
SNAP units dropped due to inconsistencies	50,214
SNAP units on the final file	
2009	
Cases sampled	59,369
Cases not subject to review	2,673
Cases deselected to correct for oversampling	5
Cases subject to review	56,691
Incomplete cases	4,430
Cases completed	52,261
SNAP units not eligible for a positive benefit	61
SNAP units not eligible for SNAP	813
SNAP units eligible for a positive benefit	51,387
SNAP units dropped due to inconsistencies	137
SNAP units on the final file	51,250

Source: SNAP Quality Control samples.

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