

***ADDENDUM TO TRENDS IN SUPPLEMENTAL NUTRITION ASSISTANCE
PROGRAM PARTICIPATION RATES: FISCAL YEAR 2016 TO FISCAL YEAR 2019***

This addendum to the report on *Trends in Supplemental Nutrition Assistance Program Participation Rates: Fiscal Year 2016 to Fiscal Year 2019* presents confidence intervals and standard errors for the fiscal year (FY) 2019 participation estimates. For the FY 2019 eligibility estimates in the report, we used the 2020 CPS ASEC Public Use Entropy Balance Weights, which account for survey non-response bias as a result of the COVID-19 pandemic. At the time of report publication, replicate weights for the Entropy Balance Weights were not available. After consultation with staff from the Census Bureau, we developed replicate weights to pair with the Entropy Balance Weights to produce the standard errors and confidence intervals in this addendum. Specifically, we calculated a ratio for each individual based on the publicly available CPS ASEC Entropy Balance Weights and the March Supplement weight and multiplied the original replicate weights by that ratio to produce a set of adjusted replicate weights. This addendum includes (1) a revised Table 3 with confidence intervals for individual subgroup participation rate differences and (2) a new Appendix Table E.4, omitted from the published report, showing the sampling error associated with selected participation rate estimates.

Table 3. Differences in estimated SNAP individual participation rates and 90 percent confidence intervals, by characteristics, FY 2016 to FY 2019 and FY 2018 to FY 2019

	Percentage point change in participation rate					
	FY 2016 to FY 2019			FY 2018 to FY 2019		
All individuals	-1	+/-	1.6	0	+/-	1.6
Household size						
Small (1 to 2 members)	-2	+/-	2.1†	1	+/-	1.8
Medium (3 to 4 members)	-4	+/-	5.4	-3	+/-	5.8
Large (5 or more members)	12	+/-	9.9†	6	+/-	9.5
Age						
Children (age 17 or younger)	*			*		
Non-elderly adults (age 18-59)	-1	+/-	2.4	2	+/-	2.2
Elderly individuals (age 60 or older)	5	+/-	1.9†	1	+/-	1.9
Living alone	4	+/-	3.1†	-1	+/-	3.0
Not living alone	4	+/-	3.1†	2	+/-	2.8
Adults age 18-49 without disabilities in childless households^a	-11	+/-	6.0†	4	+/-	5.2
Noncitizens^b	-10	+/-	6.9†	-5	+/-	6.6
Citizen children living with noncitizen adults^c	-16	+/-	7.2†	-8	+/-	6.6†
Household countable income source^d						
Earned income	-2	+/-	2.9	-1	+/-	3.3
TANF	7	+/-	8.2	-1	+/-	10.0
SSI benefits	2	+/-	4.9	-2	+/-	4.5
Non-elderly	5	+/-	6.4	3	+/-	6.0
Elderly	0	+/-	5.9	-10	+/-	6.0†
Social Security	4	+/-	3.1†	2	+/-	2.8
Household countable income as a percentage of poverty guidelines						
100 percent of poverty or less	1	+/-	2.5	0	+/-	2.4
No income	-3	+/-	6.1	4	+/-	5.5
1 to 50 percent	*			*		
51 to 100 percent	2	+/-	4.2	1	+/-	4.1
Greater than 100 percent of poverty	0	+/-	2.5	1	+/-	2.6
101 to 130 percent	-1	+/-	3.2	1	+/-	3.2
131 percent or more	4	+/-	3.0†	3	+/-	3.1
Household benefit as a percentage of maximum benefit						
Minimum benefit or less	-1	+/-	2.1	2	+/-	1.9
1 to 50 percent	-2	+/-	2.1†	-1	+/-	2.0
51 to 99 percent	*			*		
Maximum (100 percent)	*			*		

Sources: SNAP Program Operations data, SNAP Quality Control data, and Current Population Survey Annual Social and Economic Supplement data for the years shown.

* The use of different data sources to estimate rate numerators and denominators can result in estimates of eligible individuals with a particular characteristic that are lower than the corresponding estimates of participants. When this happens, estimated rates exceed 100 percent. In this report, we do not report estimated rates higher than 100 percent or the associated estimates of eligible individuals. See Appendix D of the report for more information.

† Indicates significance at the .10 level using a two-tailed t-test.

^a With some exceptions, these participants are subject to work requirements and time limits.

^b These estimates do not include noncitizens who are outside the SNAP household but reside in the same dwelling unit.

^c These estimates include citizen children living in a household with a noncitizen adult, regardless of SNAP participation or eligibility of the adult.

^d These income sources are not mutually exclusive.

Table E.4. Sampling error associated with selected participation rate estimates, FY 2019

Variable	Participation rate with 90 percent confidence interval			Eligible		Participating	
				Number	Standard error	Number	Standard error
Individuals	82.5	+/-	1.2	41,073,677	363,710	33,868,730	79,131
Households	83.8	+/-	1.4	20,231,223	198,074	16,954,628	37,166
Benefits	*			*		4,153,405,483	9,060,175
Children (age 17 or younger)	*			*		14,686,744	74,686
Non-elderly adults (age 18–59)	85.3	+/-	1.8	16,616,014	188,841	14,168,745	79,941
Elderly individuals (age 60 or older)	48.4	+/-	1.5	10,350,821	137,109	5,013,241	63,335
Adults age 18–49 without disabilities in childless households ^a	82.1	+/-	4.3	2,838,556	66,214	2,329,442	50,677
Noncitizens	55.3	+/-	4.8	2,314,861	67,594	1,279,029	56,344
Citizen children living with noncitizen adults	64.5	+/-	5.0	3,532,630	108,918	2,278,186	82,482
Household countable income source							
Earned income	72.5	+/-	2.2	18,923,637	260,406	13,712,069	164,199
TANF	76.0	+/-	6.4	3,104,739	110,547	2,359,842	87,031
SSI benefits	85.0	+/-	3.6	8,425,250	160,770	7,163,449	120,487
Non-elderly	89.0	+/-	4.8	5,752,918	138,452	5,122,035	115,411
Elderly	71.4	+/-	4.1	3,000,539	75,516	2,141,877	51,011
Household countable income as a percentage of poverty guidelines							
1 to 50 percent	*			*		8,325,413	141,393
101 to 130 percent	47.6	+/-	2.3	9,981,179	187,015	4,748,136	110,773

Sources: SNAP Program Operations, SNAP Quality Control, and Current Population Survey Annual Social and Economic Supplement data.

Note: Participant, eligible, and benefit totals represent monthly averages.

* The use of different data sources to estimate rate numerators and denominators can result in estimates of eligible individuals with a particular characteristic or of potential benefits to eligible individuals that are lower than the corresponding estimates of participants or benefits received by participants. When this happens, estimated rates exceed 100 percent. In this report, we do not report estimated rates higher than 100 percent or the associated estimates of eligible individuals, households, or potential benefits. See Appendix D of the report for more information.

^a With some exceptions, these participants are subject to work requirements and time limits.