

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Trends in SNAP Participation and Sociodemographic Characteristics of U.S. Adults by SNAP Participation Status, 1999-2014

Characteristics	1999-2000	2001-2002	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	P for trend
N, Survey-Weighted % (95% CI)									
SNAP participation status									
SNAP participants	423	417	573	490	858	1,158	1,135	1,108	<0.001
Income-eligible nonparticipants	8.6 (6.5, 11.4)	8.1 (6.2, 10.4)	10.5 (8.2, 13.3)	8.0 (6.2, 10.3)	11.5 (9.2, 14.2)	14.1 (11.4, 17.2)	17.4 (13.7, 21.9)	17.3 (14.3, 20.8)	0.08
Higher-Income Individuals	825	884	784	788	882	945	785	799	0.003
	15.3 (11.5, 20.1)	14.3 (12.4, 16.6)	12.9 (10.8, 15.2)	12.0 (10.3, 14.0)	11.4 (9.5, 13.6)	11.1 (9.4, 13.2)	12.9 (10.8, 15.3)	12.3 (10.4, 14.6)	
	2984	3,443	3,029	3,195	3,644	3,607	2,854	3,086	
	76.0 (70.7, 80.7)	77.6 (74.9, 80.1)	76.6 (72.1, 80.6)	80.0 (76.9, 82.7)	77.1 (73.1, 80.7)	74.8 (71.8, 77.5)	69.7 (64.3, 74.7)	70.3 (65.0, 75.2)	
Survey-Weighted % (95% CI)									
Age, y, Mean (95% CI)									
SNAP participants	41.4	39.0	40.3	39.3	40.4	41.8	42.9	42.5	0.003
Income-eligible nonparticipants	(39.0, 43.8)	(36.8, 41.2)	(38.4, 42.3)	(37.2, 41.3)	(38.7, 42.1)	(41.0, 42.6)	(41.3, 44.6)	(40.8, 44.2)	0.80
Higher-Income Individuals	44.0	45.1	45.1	47.7	45.1	43.8	43.6	44.8	<0.001
	(40.8, 47.2)	(43.2, 47.0)	(43.3, 46.8)	(44.9, 50.4)	(41.7, 48.4)	(41.1, 46.5)	(35.6, 51.6)	(42.9, 46.8)	
	45.8	46.3	47.6	47.5	47.9	48.5	49.2	49.2	
	(44.7, 46.8)	(45.1, 47.5)	(46.5, 48.8)	(46.1, 48.9)	(47.0, 48.8)	(47.5, 49.5)	(47.6, 50.8)	(48.2, 50.3)	
% Male									
SNAP participants	36.6	36.3	36.5	36.9	39.6	42.7	46.6	45.2	<0.001
Income-eligible nonparticipants	(30.8, 42.4)	(30.8, 41.8)	(32.7, 40.3)	(32.0, 41.7)	(35.4, 43.8)	(40.4, 45.1)	(42.9, 50.3)	(41.7, 48.6)	0.02
Higher-Income Individuals	42.4	43.1	45.2	46.9	42.4	46.6	47.4	47.5	0.40
	(38.4, 46.6)	(38.2, 48.1)	(41.4, 49.2)	(42.4, 51.4)	(38.8, 46.1)	(43.2, 50.0)	(43.9, 51.0)	(44.4, 50.7)	
	50.1	50.4	50	49.2	48.9	49.4	49.4	49.5	
	(47.7, 52.5)	(48.7, 52.1)	(48.1, 51.8)	(47.6, 50.8)	(47.6, 50.1)	(47.7, 51.0)	(47.0, 51.8)	(47.6, 51.3)	
% Non-Hispanic White									
SNAP participants	45.8	47.2	51.6	48.1	46.1	46.5	48.5	49.9	0.81
Income-eligible nonparticipants	(36.1, 55.6)	(36.0, 58.5)	(35.3, 67.9)	(36.8, 59.4)	(28.4, 63.8)	(34.2, 58.8)	(35.3, 61.8)	(39.6, 60.2)	0.42
Higher-Income Individuals	58.2	55.7	60	57.6	56.7	50.1	57	52.0	0.06
	(45.4, 70.0)	(45.1, 65.8)	(44.5, 73.8)	(48.7, 66.0)	(43.8, 68.7)	(41.9, 58.4)	(43.8, 69.3)	(40.2, 63.5)	
	75.9	77.8	78.1	77.7	75.8	75.8	72.8	72.2	
	(72.0, 79.4)	(73.5, 81.5)	(72.1, 83.2)	(72.0, 82.4)	(69.3, 81.3)	(69.2, 81.3)	(65.9, 78.8)	(66.4, 77.3)	
% Non-Hispanic Black									
SNAP participants	19.6	29.1	28.7	33.2	26.9	24.4	25.2	22.0	0.48
Income-eligible nonparticipants	(10.4, 28.8)	(17.1, 41.1)	(20.0, 37.4)	(24.0, 42.3)	(15.3, 38.5)	(19.4, 29.5)	(15.9, 34.6)	(15.8, 28.2)	0.73
Higher-Income Individuals	12.0	14.8	12.0	13.7	10.9	13.6	10.7	12.6	0.69
	(5.99, 22.6)	(10.6, 20.4)	(8.37, 16.9)	(8.58, 21.1)	(6.96, 16.7)	(10.6, 17.2)	(5.24, 20.7)	(8.44, 18.5)	
	9.52	8.33	8.63	9.06	8.97	8.60	8.16	8.58	
	(7.28, 12.4)	(5.70, 12.0)	(6.01, 12.2)	(6.20, 13.05)	(6.15, 12.9)	(6.86, 10.74)	(5.40, 12.15)	(6.43, 11.38)	
% Hispanic									
SNAP participants	9.6	6.6	12.2	10.6	14.9	14.8	9.4	13.4	0.35
Income-eligible nonparticipants	(2.50, 16.6)	(2.1, 11.2)	(3.10, 21.3)	(5.00, 16.2)	(6.10, 23.6)	(6.40, 23.1)	(2.10, 16.6)	(8.5, 18.3)	0.13
	10.8	13.5	13.6	20.4	18.5	18.2	14.3	18.2	

nonparticipants	(6.50, 17.6)	(9.2, 19.4)	(6.80, 25.6)	(15.4, 26.4)	(11.4, 28.7)	(11.0, 28.4)	(8.50, 23.1)	(12.0, 26.7)	
Higher-Income Individuals	5.09 (3.42, 7.52)	6.06 (4.53, 8.06)	6.17 (3.66, 10.2)	5.54 (4.22, 7.23)	5.92 (4.68, 7.47)	5.78 (3.50, 9.39)	6.47 (3.79, 10.8)	6.30 (3.89, 10.1)	0.58
% High school or less than high school education									
SNAP participants	78.4 (71.0, 84.3)	71.9 (63.5, 79.0)	70.3 (62.8, 76.8)	65.8 (58.7, 72.3)	76.8 (72.2, 80.8)	71.9 (67.1, 76.3)	58 (51.9, 63.8)	62.3 (58.8, 65.7)	<0.001
Income-eligible nonparticipants	66.3 (56.4, 74.9)	69.6 (65.5, 73.4)	62.6 (55.1, 69.4)	64.6 (56.9, 71.6)	66.7 (57.6, 74.6)	59.5 (51.6, 66.9)	51.5 (36.7, 66.0)	52 (43.8, 60.1)	0.002
Higher-Income Individuals	43.7 (39.6, 47.9)	36.3 (33.3, 39.4)	37.9 (34.5, 41.5)	36.6 (32.5, 40.9)	38.3 (33.9, 42.8)	32.7 (29.8, 35.6)	27.7 (22.4, 33.7)	28.1 (24.9, 31.5)	<0.001
% Some college, college or above education									
SNAP participants	21.6 (15.7, 29.0)	28.1 (21.0, 36.5)	29.7 (23.2, 37.2)	34.2 (27.7, 41.3)	23.2 (19.2, 27.8)	28.1 (23.7, 32.9)	42 (36.2, 48.1)	37.7 (34.3, 41.2)	<0.001
Income-eligible nonparticipants	33.7 (25.1, 43.6)	30.4 (26.6, 34.5)	37.4 (30.6, 44.9)	35.4 (28.4, 43.1)	33.3 (25.4, 42.4)	40.5 (33.1, 48.4)	48.5 (34.0, 63.3)	48 (39.9, 56.2)	0.002
Higher-Income Individuals	56.3 (52.1, 60.4)	63.7 (60.6, 66.7)	62.1 (58.5, 65.5)	63.4 (59.1, 67.5)	61.7 (57.2, 66.1)	67.3 (64.4, 70.2)	72.3 (66.3, 77.6)	71.9 (68.5, 75.1)	<0.001
Family income to poverty ratio (FIPR)^a, mean (95% CI)									
SNAP participants	1.07 (0.86, 1.29)	1.11 (0.92, 1.30)	1.06 (0.94, 1.18)	1.46 (1.22, 1.68)	0.96 (0.86, 1.06)	1.12 (0.86, 1.38)	1.25 (1.13, 1.37)	1.21 (1.11, 1.32)	0.11
Income-eligible nonparticipants	0.83 (0.77, 0.90)	0.81 (0.78, 0.85)	0.90 (0.84, 0.96)	0.86 (0.83, 0.90)	0.85 (0.80, 0.89)	0.81 (0.78, 0.85)	0.80 (0.69, 0.92)	0.92 (0.88, 0.97)	0.46
Higher-Income Individuals	3.59 (3.42, 3.76)	3.66 (3.56, 3.76)	3.60 (3.50, 3.70)	3.60 (3.50, 3.70)	3.66 (3.52, 3.79)	3.69 (3.60, 3.77)	3.71 (3.56, 3.86)	3.69 (3.57, 3.81)	0.16
% Lower-income (FIPR <1.30)									
SNAP participants	74.7 (60.8, 88.5)	75.5 (64.6, 86.3)	73.2 (64.5, 82.0)	62.6 (52.3, 72.9)	79.8 (73.7, 85.9)	73.0 (64.1, 81.8)	64.7 (57.0, 72.3)	69.2 (63.7, 74.7)	0.16
Income-eligible nonparticipants	1	1	1	1	1	1	1	1	
Higher-Income Individuals	0	0	0	0	0	0	0	0	
% Higher-income (FIPR ≥1.30)									
SNAP participants	25.3 (14.0, 41.3)	24.5 (15.3, 36.9)	26.8 (19.0, 36.4)	37.4 (27.8, 48.1)	20.2 (14.8, 26.9)	27 (19.1, 36.7)	35.3 (28.1, 43.3)	30.8 (25.6, 36.5)	0.16
Income-eligible nonparticipants	0	0	0	0	0	0	0	0	
Higher-Income Individuals	1	1	1	1	1	1	1	1	

Abbreviations: SNAP: Supplemental Nutrition Assistance Program; FIPR: Family income to poverty ratio

^a. Family income to poverty ratio represents the ratio of family income to the federal poverty threshold, adjusting for household size. For reference, the federal threshold in 2014 for a family of 4 was \$23,850/y. A family of 4 earning \$44,123/y would have a ratio of 1.85. A lower ratio indicates a lower level of income.

eTable 2. Trends in Dietary Intake of Key Food Groups and Nutrients Among U.S. Adults by SNAP Participation Status, 1999-2014

Dietary Intake	Survey-Weighted Mean Intake (95% CI) ^a								P for Trend	Mean Change From 1999-2000 To 2013-2014 (95% CI)
	1999-2000 (n=423)	2001-2002 (n=417)	2003-2004 (n=573)	2005-2006 (n=490)	2007-2008 (n=858)	2009-2010 (n=1158)	2011-2012 (n=1135)	2013-2014 (n=1108)		
Total fruits, servings/d										
SNAP participants	0.75 (0.59, 0.91)	0.79 (0.63, 0.95)	0.84 (0.68, 1.00)	0.83 (0.67, 1.00)	0.76 (0.63, 0.90)	0.91 (0.81, 1.01)	0.90 (0.80, 0.99)	0.73 (0.64, 0.82)	0.79	-0.02 (-0.20, 0.16)
Income-eligible nonparticipants	1.00 (0.78, 1.22)	0.87 (0.70, 1.04)	0.93 (0.78, 1.08)	1.01 (0.95, 1.06)	0.93 (0.81, 1.04)	1.01 (0.91, 1.11)	1.03 (0.93, 1.13)	0.88 (0.75, 1.01)	0.91	-0.12 (-0.37, 0.14)
Higher-Income Individuals	1.02 (0.88, 1.15)	1.13 (1.04, 1.22)	1.03 (0.91, 1.15)	1.00 (0.93, 1.08)	1.05 (0.95, 1.15)	1.12 (1.08, 1.17)	1.09 (1.00, 1.17)	0.99 (0.92, 1.05)	0.85 0.91 ^b	-0.03 (-0.18, 0.12) 0.71 ^b
Whole fruits, servings/d										
SNAP participants	0.35 (0.23, 0.47)	0.38 (0.31, 0.44)	0.40 (0.33, 0.48)	0.39 (0.28, 0.49)	0.46 (0.36, 0.55)	0.51 (0.45, 0.58)	0.53 (0.45, 0.62)	0.47 (0.38, 0.56)	0.002	0.12 (-0.02, 0.27)
Income-eligible nonparticipants	0.57 (0.43, 0.70)	0.54 (0.41, 0.67)	0.57 (0.46, 0.68)	0.64 (0.60, 0.69)	0.59 (0.50, 0.67)	0.64 (0.56, 0.72)	0.66 (0.58, 0.74)	0.60 (0.50, 0.70)	0.16	0.04 (-0.12, 0.2)
Higher-Income Individuals	0.62 (0.54, 0.71)	0.67 (0.63, 0.72)	0.66 (0.58, 0.73)	0.66 (0.60, 0.72)	0.75 (0.68, 0.82)	0.83 (0.80, 0.86)	0.81 (0.74, 0.89)	0.77 (0.71, 0.83)	<0.001 0.22 ^b	0.15 (0.04, 0.25) 0.47 ^b
100% fruit juices, servings/d										
SNAP participants	0.41 (0.33, 0.49)	0.50 (0.36, 0.65)	0.46 (0.37, 0.55)	0.68 (0.21, 1.14)	0.36 (0.26, 0.46)	0.41 (0.37, 0.45)	0.42 (0.34, 0.50)	0.28 (0.23, 0.32)	0.002	-0.13 (-0.23, -0.04)
Income-eligible nonparticipants	0.51 (0.35, 0.66)	0.38 (0.29, 0.46)	0.38 (0.31, 0.46)	0.36 (0.33, 0.40)	0.39 (0.32, 0.46)	0.42 (0.35, 0.48)	0.38 (0.27, 0.49)	0.32 (0.25, 0.39)	0.08	-0.19 (-0.36, -0.02)
Higher-Income Individuals	0.42 (0.35, 0.49)	0.43 (0.38, 0.47)	0.38 (0.33, 0.44)	0.36 (0.32, 0.39)	0.32 (0.28, 0.36)	0.32 (0.28, 0.35)	0.27 (0.23, 0.32)	0.23 (0.21, 0.25)	<0.001 0.30 ^b	-0.19 (-0.26, -0.12) 0.46 ^b
Total vegetables, servings/d										
SNAP participants	1.37 (1.11, 1.63)	1.29 (1.15, 1.43)	1.34 (1.21, 1.48)	1.33 (1.18, 1.49)	1.34 (1.21, 1.47)	1.24 (1.18, 1.30)	1.32 (1.24, 1.41)	1.13 (1.02, 1.25)	0.05	-0.23 (-0.51, 0.05)
Income-eligible nonparticipants	1.41 (1.27, 1.54)	1.46 (1.30, 1.63)	1.53 (1.45, 1.61)	1.53 (1.37, 1.69)	1.46 (1.35, 1.57)	1.47 (1.38, 1.55)	1.52 (1.45, 1.59)	1.33 (1.21, 1.44)	0.55	-0.08 (-0.26, 0.1)
Higher-Income Individuals	1.68 (1.60, 1.76)	1.64 (1.57, 1.71)	1.68 (1.64, 1.72)	1.68 (1.60, 1.75)	1.67 (1.61, 1.73)	1.71 (1.64, 1.77)	1.73 (1.64, 1.81)	1.59 (1.53, 1.65)	0.80 0.22 ^b	-0.09 (-0.19, 0.01) 0.63 ^b
Dark-green vegetables, servings/d										
SNAP participants	0.06 (0.03, 0.08)	0.05 (0.03, 0.08)	0.05 (0.03, 0.07)	0.11 (0.05, 0.17)	0.07 (0.06, 0.09)	0.09 (0.07, 0.10)	0.09 (0.06, 0.12)	0.10 (0.06, 0.13)	0.006	0.04 (0.00, 0.08)
Income-eligible nonparticipants	0.05 (0.03, 0.07)	0.07 (0.05, 0.10)	0.09 (0.06, 0.11)	0.10 (0.07, 0.13)	0.09 (0.06, 0.12)	0.10 (0.06, 0.13)	0.12 (0.08, 0.16)	0.12 (0.09, 0.14)	<0.001	0.06 (0.03, 0.09)
Higher-Income Individuals	0.14 (0.10, 0.17)	0.13 (0.11, 0.16)	0.13 (0.11, 0.14)	0.15 (0.13, 0.17)	0.15 (0.13, 0.17)	0.16 (0.15, 0.17)	0.18 (0.15, 0.22)	0.19 (0.17, 0.21)	<0.001 0.62 ^b	0.06 (0.01, 0.10) 0.57 ^b
Tomatoes, servings/d										

SNAP participants	0.23 (0.17, 0.28)	0.32 (0.25, 0.38)	0.31 (0.26, 0.37)	0.26 (0.22, 0.29)	0.27 (0.24, 0.30)	0.25 (0.23, 0.28)	0.27 (0.24, 0.30)	0.21 (0.19, 0.23)	0.02	-0.02 (-0.07, 0.04)
Income-eligible nonparticipants	0.26 (0.21, 0.32)	0.33 (0.27, 0.40)	0.35 (0.29, 0.42)	0.32 (0.28, 0.36)	0.28 (0.26, 0.30)	0.28 (0.25, 0.31)	0.31 (0.29, 0.33)	0.27 (0.23, 0.30)	0.27	0.00 (-0.06, 0.06)
Higher-Income Individuals	0.31 (0.28, 0.34)	0.34 (0.31, 0.38)	0.36 (0.33, 0.40)	0.32 (0.30, 0.35)	0.32 (0.31, 0.34)	0.31 (0.27, 0.34)	0.31 (0.29, 0.33)	0.28 (0.26, 0.29)	<0.001 0.67 ^b	-0.04 (-0.07, 0.00) 0.43 ^b
Other red/orange vegetables, servings/d										
SNAP participants	0.08 (0.04, 0.11)	0.06 (0.04, 0.08)	0.05 (0.03, 0.06)	0.06 (0.04, 0.08)	0.05 (0.04, 0.06)	0.06 (0.05, 0.07)	0.07 (0.05, 0.09)	0.07 (0.05, 0.09)	0.35	-0.01 (-0.05, 0.04)
Income-eligible nonparticipants	0.08 (0.05, 0.10)	0.08 (0.06, 0.09)	0.09 (0.06, 0.11)	0.08 (0.06, 0.10)	0.09 (0.06, 0.12)	0.09 (0.08, 0.10)	0.09 (0.07, 0.12)	0.08 (0.06, 0.10)	0.33	0.00 (-0.03, 0.04)
Higher-Income Individuals	0.09 (0.08, 0.11)	0.09 (0.07, 0.10)	0.08 (0.07, 0.08)	0.09 (0.08, 0.10)	0.09 (0.08, 0.10)	0.11 (0.10, 0.12)	0.12 (0.11, 0.13)	0.11 (0.10, 0.13)	<0.001 0.10 ^b	0.02 (0.00, 0.04) 0.37 ^b
White potatoes, servings/d										
SNAP participants	0.45 (0.36, 0.54)	0.33 (0.25, 0.41)	0.44 (0.38, 0.50)	0.37 (0.28, 0.45)	0.38 (0.33, 0.42)	0.33 (0.30, 0.36)	0.32 (0.28, 0.36)	0.30 (0.26, 0.33)	<0.001	-0.15 (-0.24, -0.06)
Income-eligible nonparticipants	0.38 (0.29, 0.46)	0.36 (0.28, 0.44)	0.40 (0.35, 0.45)	0.35 (0.29, 0.41)	0.35 (0.29, 0.42)	0.33 (0.28, 0.39)	0.35 (0.29, 0.40)	0.30 (0.26, 0.34)	0.06	-0.08 (-0.17, 0.01)
Higher-Income Individuals	0.38 (0.34, 0.43)	0.37 (0.35, 0.39)	0.37 (0.34, 0.41)	0.35 (0.32, 0.39)	0.37 (0.33, 0.40)	0.36 (0.34, 0.38)	0.32 (0.29, 0.34)	0.32 (0.29, 0.34)	<0.001 0.14 ^b	-0.07 (-0.12, -0.01) 0.21 ^b
Other starchy vegetables, servings/d										
SNAP participants	0.09 (0.05, 0.14)	0.09 (0.05, 0.13)	0.07 (0.05, 0.10)	0.08 (0.05, 0.10)	0.09 (0.07, 0.10)	0.09 (0.07, 0.11)	0.10 (0.06, 0.13)	0.06 (0.05, 0.08)	0.49	-0.03 (-0.07, 0.01)
Income-eligible nonparticipants	0.10 (0.06, 0.14)	0.10 (0.08, 0.13)	0.07 (0.05, 0.09)	0.09 (0.07, 0.11)	0.09 (0.07, 0.11)	0.10 (0.07, 0.13)	0.09 (0.06, 0.11)	0.06 (0.04, 0.08)	0.16	-0.04 (-0.08, 0.01)
Higher-Income Individuals	0.10 (0.08, 0.11)	0.09 (0.08, 0.10)	0.08 (0.07, 0.09)	0.10 (0.08, 0.11)	0.09 (0.08, 0.11)	0.09 (0.07, 0.10)	0.08 (0.07, 0.09)	0.07 (0.06, 0.08)	0.003 0.90 ^b	-0.03 (-0.04, -0.01) 0.88 ^b
Vegetables, excluding potatoes/starchy, servings/d										
SNAP participants	0.82 (0.63, 1.02)	0.87 (0.75, 1.00)	0.83 (0.73, 0.93)	0.89 (0.75, 1.03)	0.88 (0.77, 0.98)	0.82 (0.75, 0.89)	0.91 (0.83, 0.99)	0.77 (0.68, 0.87)	0.66	-0.05 (-0.27, 0.17)
Income-eligible nonparticipants	0.93 (0.83, 1.03)	1.00 (0.85, 1.15)	1.06 (0.95, 1.16)	1.09 (0.96, 1.21)	1.02 (0.92, 1.12)	1.03 (0.96, 1.11)	1.08 (0.97, 1.20)	0.97 (0.87, 1.06)	0.42	0.04 (-0.10, 0.18)
Higher-Income Individuals	1.20 (1.10, 1.29)	1.18 (1.11, 1.24)	1.22 (1.17, 1.27)	1.23 (1.15, 1.30)	1.21 (1.15, 1.28)	1.26 (1.20, 1.32)	1.33 (1.23, 1.42)	1.20 (1.13, 1.27)	0.10 0.40 ^b	0.00 (-0.11, 0.12) 0.83 ^b
Total grains, servings/d										
SNAP participants	5.59 (5.15, 6.04)	6.34 (5.72, 6.96)	6.15 (5.88, 6.41)	5.97 (5.61, 6.32)	6.20 (5.89, 6.50)	6.32 (6.10, 6.54)	6.36 (6.03, 6.68)	5.58 (5.32, 5.83)	0.73	-0.02 (-0.52, 0.49)
Income-eligible nonparticipants	6.28 (5.91, 6.65)	6.75 (6.40, 7.10)	6.61 (6.31, 6.90)	6.39 (6.04, 6.74)	6.37 (6.06, 6.67)	6.63 (6.39, 6.88)	6.80 (6.41, 7.19)	6.13 (5.86, 6.40)	0.77	-0.15 (-0.60, 0.31)
Higher-Income Individuals	6.06 (5.86, 6.27)	6.39 (6.21, 6.58)	6.27 (6.09, 6.44)	6.20 (6.06, 6.33)	6.15 (6.04, 6.25)	6.19 (6.03, 6.35)	6.23 (6.08, 6.37)	5.96 (5.82, 6.10)	0.09	-0.10 (-0.35, 0.14)
Whole grains, servings/d										
SNAP participants	0.41 (0.27, 0.55)	0.42 (0.29, 0.56)	0.46 (0.35, 0.57)	0.46 (0.34, 0.59)	0.47 (0.41, 0.54)	0.64 (0.55, 0.73)	0.78 (0.68, 0.89)	0.66 (0.59, 0.73)	<0.001	0.25 (0.10, 0.40)

Income-eligible nonparticipants	0.42 (0.33, 0.51)	0.56 (0.42, 0.70)	0.59 (0.47, 0.71)	0.69 (0.57, 0.80)	0.67 (0.53, 0.81)	0.79 (0.68, 0.90)	0.87 (0.76, 0.98)	0.78 (0.65, 0.92)	<0.001	0.37 (0.20, 0.53)
Higher-Income Individuals	0.61 (0.54, 0.68)	0.77 (0.69, 0.84)	0.70 (0.65, 0.75)	0.81 (0.74, 0.87)	0.80 (0.72, 0.88)	0.96 (0.91, 1.01)	1.08 (0.99, 1.16)	1.00 (0.96, 1.04)	<0.001	0.39 (0.31, 0.47)
Refined grains, servings/d										
SNAP participants	5.18 (4.67, 5.70)	5.92 (5.28, 6.56)	5.69 (5.41, 5.96)	5.50 (5.15, 5.85)	5.72 (5.42, 6.03)	5.68 (5.48, 5.88)	5.57 (5.27, 5.87)	4.92 (4.67, 5.17)	0.05	-0.27 (-0.83, 0.30)
Income-eligible nonparticipants	5.86 (5.51, 6.21)	6.19 (5.85, 6.52)	6.02 (5.69, 6.35)	5.7 (5.40, 6.01)	5.69 (5.40, 5.99)	5.84 (5.58, 6.1)	5.93 (5.61, 6.26)	5.34 (5.08, 5.61)	0.01	-0.52 (-0.95, -0.08)
Higher-Income Individuals	5.45 (5.26, 5.64)	5.62 (5.45, 5.8)	5.57 (5.41, 5.72)	5.39 (5.25, 5.54)	5.34 (5.25, 5.44)	5.23 (5.07, 5.39)	5.15 (5.01, 5.28)	4.96 (4.83, 5.1)	<0.001	-0.49 (-0.72, -0.26)
Nuts and seeds, servings/d										
SNAP participants	0.21 (0.11, 0.31)	0.29 (0.01, 0.59)	0.33 (0.24, 0.41)	0.36 (0.26, 0.47)	0.32 (0.21, 0.42)	0.34 (0.28, 0.40)	0.37 (0.28, 0.47)	0.35 (0.24, 0.47)	0.17	0.15 (0.001, 0.29)
Income-eligible nonparticipants	0.42 (0.28, 0.56)	0.43 (0.19, 0.68)	0.52 (0.37, 0.67)	0.44 (0.32, 0.56)	0.42 (0.26, 0.59)	0.42 (0.34, 0.50)	0.42 (0.31, 0.52)	0.46 (0.36, 0.56)	0.92	0.04 (-0.13, 0.21)
Higher-Income Individuals	0.46 (0.4, 0.53)	0.51 (0.43, 0.58)	0.57 (0.50, 0.64)	0.63 (0.57, 0.68)	0.60 (0.53, 0.66)	0.69 (0.63, 0.75)	0.82 (0.74, 0.9)	0.82 (0.75, 0.88)	<0.001	0.36 (0.27, 0.44)
Legumes, servings/d										
SNAP participants	0.17 (0.05, 0.29)	0.16 (0.08, 0.23)	0.12 (0.09, 0.15)	0.09 (0.06, 0.12)	0.11 (0.08, 0.14)	0.13 (0.10, 0.17)	0.13 (0.09, 0.16)	0.11 (0.09, 0.12)	0.32	-0.06 (-0.18, 0.06)
Income-eligible nonparticipants	0.13 (0.08, 0.17)	0.14 (0.1, 0.18)	0.12 (0.10, 0.14)	0.13 (0.10, 0.16)	0.15 (0.11, 0.19)	0.14 (0.11, 0.18)	0.16 (0.11, 0.21)	0.14 (0.13, 0.16)	0.18	0.02 (-0.02, 0.06)
Higher-Income Individuals	0.10 (0.08, 0.12)	0.10 (0.08, 0.11)	0.09 (0.07, 0.10)	0.09 (0.08, 0.11)	0.10 (0.09, 0.11)	0.10 (0.09, 0.11)	0.11 (0.10, 0.12)	0.09 (0.09, 0.10)	0.49	-0.01 (-0.03, 0.01)
Total meat, serving/d										
SNAP participants	1.21 (1.03, 1.38)	1.14 (1.02, 1.27)	1.12 (1.01, 1.22)	1.25 (1.15, 1.35)	1.22 (1.14, 1.3)	1.22 (1.15, 1.28)	1.15 (1.08, 1.22)	1.13 (1.07, 1.2)	0.56	-0.08 (-0.26, 0.11)
Income-eligible nonparticipants	1.02 (0.9, 1.14)	1.11 (1.02, 1.21)	1.03 (0.93, 1.14)	1.21 (1.13, 1.30)	1.08 (1.00, 1.16)	1.20 (1.12, 1.28)	1.18 (1.09, 1.28)	1.08 (0.99, 1.16)	0.11	0.05 (-0.09, 0.20)
Higher-Income Individuals	1.15 (1.09, 1.21)	1.10 (1.07, 1.13)	1.18 (1.14, 1.22)	1.19 (1.15, 1.23)	1.19 (1.16, 1.22)	1.19 (1.13, 1.25)	1.13 (1.08, 1.18)	1.11 (1.08, 1.14)	0.70	-0.04 (-0.11, 0.03)
Processed meats, servings/d										
SNAP participants	0.29 (0.22, 0.36)	0.23 (0.18, 0.27)	0.27 (0.22, 0.31)	0.31 (0.25, 0.37)	0.30 (0.25, 0.36)	0.32 (0.27, 0.37)	0.29 (0.25, 0.33)	0.31 (0.24, 0.38)	0.18	0.02 (-0.08, 0.12)
Income-eligible nonparticipants	0.20 (0.15, 0.25)	0.26 (0.22, 0.31)	0.26 (0.22, 0.30)	0.25 (0.21, 0.29)	0.26 (0.23, 0.30)	0.28 (0.24, 0.32)	0.26 (0.24, 0.29)	0.26 (0.23, 0.29)	0.09	0.06 (0.00, 0.12)
Higher-Income Individuals	0.29 (0.25, 0.33)	0.30 (0.28, 0.33)	0.30 (0.27, 0.33)	0.30 (0.27, 0.33)	0.29 (0.26, 0.31)	0.30 (0.28, 0.32)	0.29 (0.27, 0.31)	0.26 (0.24, 0.29)	0.11	-0.03 (-0.08, 0.02)
Unprocessed red meats, servings/d										
SNAP participants	0.53 (0.47, 0.59)	0.53 (0.40, 0.66)	0.46 (0.40, 0.53)	0.55 (0.46, 0.65)	0.52 (0.48, 0.56)	0.49 (0.46, 0.51)	0.45 (0.40, 0.50)	0.40 (0.37, 0.44)	0.001	-0.13 (-0.20, -0.06)
Income-eligible	0.48	0.48	0.42	0.53	0.40	0.46	0.49	0.39	0.19	-0.09

nonparticipants	(0.39, 0.56)	(0.40, 0.56)	(0.38, 0.47)	(0.48, 0.58)	(0.35, 0.45)	(0.41, 0.5)	(0.40, 0.58)	(0.36, 0.42)		(-0.17, 0.00)
Higher-Income Individuals	0.48 (0.44, 0.53)	0.44 (0.41, 0.47)	0.48 (0.45, 0.51)	0.47 (0.44, 0.5)	0.46 (0.43, 0.48)	0.45 (0.41, 0.49)	0.44 (0.40, 0.48)	0.42 (0.40, 0.44)	0.03 0.23 ^b	-0.06 0.51 ^b
Poultry, servings/d										
SNAP participants	0.39 (0.25, 0.53)	0.39 (0.28, 0.50)	0.39 (0.32, 0.46)	0.39 (0.33, 0.46)	0.40 (0.33, 0.47)	0.41 (0.36, 0.46)	0.41 (0.35, 0.46)	0.42 (0.38, 0.47)	0.45	0.03 (-0.11, 0.18)
Income-eligible nonparticipants	0.35 (0.27, 0.43)	0.37 (0.32, 0.41)	0.35 (0.28, 0.42)	0.43 (0.36, 0.51)	0.42 (0.36, 0.47)	0.46 (0.40, 0.53)	0.43 (0.39, 0.47)	0.43 (0.36, 0.50)	0.009	0.08 (-0.02, 0.19)
Higher-Income Individuals	0.38 (0.34, 0.42)	0.36 (0.33, 0.39)	0.40 (0.36, 0.44)	0.41 (0.38, 0.44)	0.45 (0.41, 0.49)	0.44 (0.39, 0.49)	0.40 (0.36, 0.44)	0.43 (0.40, 0.46)	0.004 0.48 ^b	0.05 0.83 ^b
Fish and shellfish, servings/d										
SNAP participants	0.14 (0.06, 0.23)	0.09 (0.04, 0.14)	0.13 (0.09, 0.16)	0.11 (0.08, 0.15)	0.14 (0.10, 0.17)	0.16 (0.13, 0.19)	0.19 (0.15, 0.23)	0.16 (0.11, 0.22)	0.03	0.02 (-0.08, 0.12)
Income-eligible nonparticipants	0.18 (0.12, 0.24)	0.12 (0.09, 0.14)	0.14 (0.1, 0.17)	0.15 (0.12, 0.17)	0.16 (0.12, 0.19)	0.18 (0.14, 0.22)	0.16 (0.12, 0.2)	0.14 (0.11, 0.16)	0.88	-0.04 (-0.11, 0.02)
Higher-Income Individuals	0.16 (0.13, 0.18)	0.16 (0.13, 0.19)	0.17 (0.14, 0.2)	0.20 (0.16, 0.23)	0.17 (0.15, 0.19)	0.20 (0.17, 0.22)	0.19 (0.16, 0.22)	0.20 (0.16, 0.24)	0.02 0.28 ^b	0.04 0.08 ^b
Eggs, servings/d										
SNAP participants	0.59 (0.42, 0.75)	0.37 (0.27, 0.48)	0.48 (0.4, 0.56)	0.45 (0.36, 0.54)	0.55 (0.49, 0.61)	0.53 (0.43, 0.62)	0.49 (0.42, 0.57)	0.47 (0.42, 0.52)	0.87	-0.12 (-0.29, 0.05)
Income-eligible nonparticipants	0.44 (0.39, 0.50)	0.46 (0.39, 0.53)	0.51 (0.42, 0.6)	0.53 (0.46, 0.61)	0.49 (0.45, 0.54)	0.52 (0.44, 0.61)	0.47 (0.39, 0.55)	0.50 (0.43, 0.58)	0.34	0.06 (-0.03, 0.15)
Higher-Income Individuals	0.42 (0.38, 0.46)	0.43 (0.40, 0.46)	0.46 (0.42, 0.51)	0.49 (0.46, 0.52)	0.50 (0.47, 0.54)	0.49 (0.45, 0.52)	0.52 (0.49, 0.55)	0.54 (0.5, 0.57)	<0.001 0.04 ^b	0.12 0.06 ^b
Total dairy, servings/d										
SNAP participants	1.27 (1.04, 1.50)	1.14 (0.97, 1.3)	1.39 (1.22, 1.56)	1.42 (1.22, 1.63)	1.24 (1.16, 1.32)	1.51 (1.40, 1.62)	1.53 (1.4, 1.65)	1.39 (1.3, 1.48)	0.008	0.12 (-0.13, 0.36)
Income-eligible nonparticipants	1.31 (1.21, 1.40)	1.33 (1.16, 1.49)	1.34 (1.25, 1.43)	1.46 (1.31, 1.60)	1.45 (1.28, 1.62)	1.50 (1.44, 1.57)	1.50 (1.33, 1.67)	1.39 (1.27, 1.50)	0.03	0.08 (-0.07, 0.23)
Higher-Income Individuals	1.53 (1.44, 1.61)	1.50 (1.44, 1.56)	1.46 (1.37, 1.55)	1.52 (1.45, 1.60)	1.51 (1.42, 1.6)	1.62 (1.57, 1.67)	1.47 (1.42, 1.52)	1.46 (1.4, 1.51)	0.72 0.005 ^b	-0.07 0.18 ^b
Milk, servings/d										
SNAP participants	0.84 (0.69, 0.99)	0.64 (0.50, 0.77)	0.85 (0.70, 1.00)	0.82 (0.65, 0.99)	0.69 (0.62, 0.75)	0.86 (0.74, 0.97)	0.72 (0.59, 0.84)	0.60 (0.54, 0.67)	0.02	-0.24 (-0.40, -0.08)
Income-eligible nonparticipants	0.85 (0.75, 0.95)	0.86 (0.73, 1.00)	0.79 (0.67, 0.90)	0.91 (0.77, 1.05)	0.80 (0.71, 0.9)	0.81 (0.73, 0.89)	0.71 (0.59, 0.83)	0.58 (0.50, 0.67)	<0.001	-0.26 (-0.40, -0.13)
Higher-Income Individuals	0.91 (0.83, 0.99)	0.91 (0.85, 0.96)	0.83 (0.76, 0.90)	0.86 (0.78, 0.94)	0.81 (0.73, 0.88)	0.83 (0.79, 0.87)	0.70 (0.65, 0.74)	0.63 (0.60, 0.67)	<0.001 0.26 ^b	-0.28 0.89 ^b
Cheese, servings/d										
SNAP participants	0.43 (0.32, 0.55)	0.48 (0.36, 0.60)	0.53 (0.44, 0.61)	0.56 (0.45, 0.66)	0.50 (0.45, 0.55)	0.61 (0.55, 0.68)	0.73 (0.66, 0.81)	0.69 (0.63, 0.74)	<0.001	0.25 (0.12, 0.38)
Income-eligible nonparticipants	0.42 (0.33, 0.5)	0.40 (0.34, 0.47)	0.50 (0.43, 0.58)	0.47 (0.41, 0.52)	0.53 (0.45, 0.62)	0.60 (0.55, 0.65)	0.69 (0.6, 0.79)	0.68 (0.6, 0.75)	<0.001	0.26 (0.15, 0.37)

Higher-Income Individuals	0.57 (0.53, 0.61)	0.54 (0.50, 0.58)	0.59 (0.55, 0.63)	0.59 (0.56, 0.63)	0.62 (0.58, 0.65)	0.68 (0.64, 0.72)	0.67 (0.63, 0.71)	0.69 (0.66, 0.73)	<0.001 0.0012 ^b	0.12 (0.07, 0.18) 0.06 ^b
Yogurt, servings/d										
SNAP participants	0.01 (0, 0.02)	0.01 (0.00, 0.03)	0.03 (0.02, 0.04)	0.02 (0.01, 0.03)	0.02 (0.01, 0.04)	0.03 (0.02, 0.04)	0.04 (0.03, 0.05)	0.04 (0.02, 0.05)	<0.001	0.03 (0.01, 0.05)
Income-eligible nonparticipants	0.02 (0.01, 0.04)	0.03 (0.00, 0.05)	0.02 (0.01, 0.03)	0.05 (0.03, 0.07)	0.04 (0.02, 0.06)	0.03 (0.02, 0.04)	0.05 (0.04, 0.06)	0.07 (0.04, 0.10)	<0.001	0.05 (0.02, 0.08)
Higher-Income Individuals	0.05 (0.03, 0.06)	0.06 (0.05, 0.07)	0.04 (0.03, 0.05)	0.05 (0.04, 0.06)	0.06 (0.05, 0.07)	0.08 (0.07, 0.09)	0.08 (0.07, 0.09)	0.08 (0.07, 0.09)	<0.001 0.32 ^b	0.03 (0.01, 0.05) 0.43 ^b
Sugar sweetened beverages, servings/d										
SNAP participants	2.29 (1.78, 2.81)	2.60 (2.2, 3.0)	2.24 (1.92, 2.55)	2.16 (1.75, 2.56)	2.47 (2.02, 2.92)	2.14 (1.95, 2.32)	1.78 (1.59, 1.97)	1.87 (1.56, 2.17)	0.001	-0.43 (-1.02, 0.17)
Income-eligible nonparticipants	2.09 (1.68, 2.5)	1.97 (1.72, 2.22)	1.94 (1.75, 2.12)	1.79 (1.53, 2.04)	1.68 (1.41, 1.95)	1.54 (1.36, 1.73)	1.48 (1.28, 1.68)	1.16 (0.98, 1.34)	<0.001	-0.93 (-1.37, -0.49)
Higher-Income Individuals	1.59 (1.44, 1.74)	1.48 (1.30, 1.66)	1.44 (1.28, 1.60)	1.27 (1.15, 1.39)	1.23 (1.09, 1.37)	1.05 (0.97, 1.13)	1.05 (0.88, 1.22)	0.80 (0.71, 0.88)	<0.001 0.60 ^b	-0.80 (-0.97, -0.63) 0.25 ^b
Added sugars, tsp equivalents/d, servings/d										
SNAP participants	23.9 (21.0, 26.8)	26.9 (22.9, 30.9)	22.0 (19.9, 24.0)	20.3 (18.3, 22.3)	22.5 (20.1, 24.9)	21.0 (19.9, 22.1)	19.0 (17.6, 20.3)	19.9 (18.4, 21.5)	<0.001	-4.0 (-7.3, -0.7)
Income-eligible nonparticipants	23.5 (21.0, 25.9)	21.1 (19.7, 22.6)	20.1 (18.5, 21.6)	18.93 (17.3, 20.6)	20.2 (18.0, 22.3)	17.4 (16.2, 18.5)	16.9 (15.6, 18.2)	15.8 (14.5, 17.1)	<0.001	-7.6 (-10.4, -4.9)
Higher-Income Individuals	19.6 (18.3, 20.8)	18.4 (17.3, 19.6)	16.6 (15.9, 17.3)	15.9 (15.2, 16.6)	16.0 (15.1, 16.9)	15.2 (14.6, 15.8)	15.2 (14.4, 15.9)	13.6 (13.1, 14.1)	<0.001 0.24 ^b	-6.0 (-7.3, -4.7) 0.05 ^b
Total fat, % of energy										
SNAP participants	32.2 (30.9, 33.5)	31.7 (30.4, 33.1)	33.0 (31.9, 34.14)	33.1 (32.2, 34.0)	32.7 (31.8, 33.6)	31.9 (31.3, 32.5)	32.6 (32.0, 33.2)	33.1 (32.6, 33.6)	0.29	0.9 (-0.5, 2.3)
Income-eligible nonparticipants	31.5 (30.2, 32.8)	32.9 (31.9, 33.9)	33.3 (32.2, 34.4)	32.3 (31.7, 32.9)	31.8 (30.8, 32.9)	31.4 (30.9, 31.9)	32.5 (31.7, 33.2)	33.4 (32.9, 33.9)	0.39	1.9 (0.4, 3.3)
Higher-Income Individuals	33.03 (32.2, 33.9)	33.5 (32.9, 34.0)	34.1 (33.4, 34.8)	34.0 (33.5, 34.4)	34.0 (33.6, 34.5)	33.5 (33.0, 33.9)	33.7 (33.1, 34.3)	34.9 (34.5, 35.2)	0.004 0.53 ^b	1.8 (0.9, 2.7) 0.43 ^b
Saturated fat, % of energy										
SNAP participants	11.1 (10.5, 11.6)	10.3 (9.9, 10.9)	11.1 (10.5, 11.7)	11.4 (10.9, 12.0)	10.8 (10.4, 11.1)	10.7 (10.5, 10.8)	10.8 (10.5, 11.1)	10.9 (10.6, 11.16)	0.61	-0.2 (-0.8, 0.4)
Income-eligible nonparticipants	10.3 (9.8, 10.7)	10.4 (10.0, 10.7)	10.9 (10.5, 11.3)	10.8 (10.5, 11.0)	10.5 (9.9, 11.0)	10.2 (9.9, 10.5)	10.6 (10.2, 11.1)	10.9 (10.7, 11.2)	0.14	0.6 (0.1, 1.2)
Higher-Income Individuals	11.0 (10.7, 11.4)	10.6 (10.4, 10.8)	11.2 (11.0, 11.5)	11.3 (11.2, 11.5)	11.2 (11.0, 11.4)	10.8 (10.6, 11.0)	10.7 (10.5, 11.0)	11.1 (11.0, 11.3)	0.96 0.25 ^b	0.1 (-0.3, 0.5) 0.04 ^b
Monounsaturated fat, % of energy										
SNAP participants	18.5 (10.1, 27.0)	16.3 (13.2, 19.4)	14.2 (13.4, 15.0)	14.7 (13.5, 16.0)	16.1 (14.5, 17.6)	13.1 (12.7, 13.5)	13.4 (12.5, 14.2)	13.4 (12.8, 14.1)	0.05	-5.1 (-13.5, 3.3)
Income-eligible nonparticipants	15.7 (14.2, 17.2)	16.2 (14.9, 17.6)	14.8 (13.9, 15.6)	14.0 (13.0, 15.0)	15.0 (13.9, 16.2)	13.6 (12.9, 14.3)	12.8 (11.8, 13.8)	13.6 (13.0, 14.2)	<0.001	-2.1 (-3.7, -0.6)
Higher-Income Individuals	13.9	13.2	13.4	13.6	13.8	13.1	13.0	13.6	0.22	-0.3

	(13.2, 14.6)	(12.8, 13.7)	(12.9, 13.9)	(13.1, 14.1)	(13.4, 14.2)	(12.7, 13.5)	(12.5, 13.5)	(13.2, 13.9)	<0.001 ^b	(-1.1, 0.5) 0.04 ^b
Polyunsaturated fat, % of energy										
SNAP participants	6.1 (5.8, 6.4)	6.3 (5.9, 6.6)	6.7 (6.4, 7.0)	6.6 (6.1, 7.1)	6.8 (6.5, 7.1)	6.8 (6.5, 7.1)	7.6 (7.4, 7.8)	7.6 (7.3, 7.9)	<0.001	1.5 (1.1, 1.9)
Income-eligible nonparticipants	6.9 (6.5, 7.3)	6.9 (6.5, 7.2)	7.1 (6.6, 7.6)	6.8 (6.6, 7.0)	6.9 (6.7, 7.1)	7.0 (6.8, 7.2)	7.7 (7.4, 7.9)	7.7 (7.4, 7.9)	<0.001	0.7 (0.2, 1.2)
Higher-Income Individuals	7.0 (6.8, 7.2)	6.9 (6.8, 7.0)	7.3 (7.1, 7.5)	7.3 (7.1, 7.5)	7.4 (7.3, 7.5)	7.6 (7.4, 7.7)	8.2 (8.0, 8.3)	8.2 (8.1, 8.4)	<0.001	1.3 (1.0, 1.5)
									0.003 ^b	0.06 ^b
Seafood omega-3 fat, mg/d										
SNAP participants	123 (66, 179)	88 (52, 125)	96 (73, 119)	119 (73, 166)	107 (81, 134)	103 (85, 120)	114 (94, 135)	103 (74, 132)	0.98	-20 (-82, 43)
Income-eligible nonparticipants	132 (96, 168)	118 (84, 151)	109 (84, 134)	108 (81, 134)	142 (108, 175)	125 (98, 151)	114 (93, 136)	79 (64, 95)	0.09	-53 (-92, -14)
Higher-Income Individuals	123 (107, 139)	131 (114, 148)	144 (121, 168)	168 (141, 195)	162 (146, 178)	131 (113, 149)	117 (99, 135)	122 (108, 135)	0.21	-1 (-22, 19)
									0.56 ^b	0.06 ^b
Plant omega-3 fat, mg/d										
SNAP participants	117 (107, 126)	125 (117, 132)	127 (122, 131)	125 (117, 132)	129 (124, 134)	132 (126, 138)	155 (149, 160)	146 (141, 151)	<0.001	29 (18, 39)
Income-eligible nonparticipants	125 (116, 133)	134 (125, 143)	143 (131, 155)	133 (128, 138)	137 (129, 144)	141 (136, 146)	161 (155, 166)	149 (143, 154)	<0.001	24 (14, 34)
Higher-Income Individuals	138 (133, 143)	137 (135, 139)	145 (140, 149)	144 (140, 149)	144 (141, 148)	153 (150, 156)	170 (165, 174)	166 (161, 170)	<0.001	27 (21, 34)
									0.32 ^b	0.80 ^b
Polyunsaturated: saturated fat ratio										
SNAP participants	0.63 (0.58, 0.67)	0.70 (0.66, 0.74)	0.66 (0.63, 0.69)	0.65 (0.59, 0.71)	0.69 (0.66, 0.72)	0.69 (0.66, 0.73)	0.77 (0.74, 0.80)	0.77 (0.73, 0.81)	<0.001	0.14 (0.08, 0.20)
Income-eligible nonparticipants	0.75 (0.71, 0.78)	0.76 (0.71, 0.81)	0.73 (0.7, 0.76)	0.69 (0.66, 0.73)	0.75 (0.68, 0.83)	0.75 (0.73, 0.78)	0.79 (0.75, 0.82)	0.76 (0.73, 0.79)	0.15	0.01 (-0.03, 0.06)
Higher-Income Individuals	0.72 (0.69, 0.75)	0.73 (0.71, 0.76)	0.70 (0.69, 0.72)	0.70 (0.69, 0.72)	0.72 (0.70, 0.74)	0.77 (0.75, 0.79)	0.82 (0.8, 0.84)	0.80 (0.79, 0.82)	<0.001	0.09 (0.05, 0.12)
									<0.001 ^b	0.01 ^b
Protein, % of energy										
SNAP participants	15.1 (14.4, 15.9)	14.5 (13.8, 15.2)	14.8 (14.2, 15.4)	15.6 (14.8, 16.4)	15.4 (14.9, 15.8)	15.4 (15.0, 15.7)	15.5 (15.2, 15.9)	15.5 (15.0, 16.1)	0.02	0.4 (-0.5, 1.3)
Income-eligible nonparticipants	14.8 (14.3, 15.3)	15.2 (14.6, 15.7)	14.9 (14.4, 15.4)	16.0 (15.3, 16.8)	15.6 (15.2, 16.0)	16.1 (15.6, 16.5)	16.0 (15.5, 16.5)	16.2 (15.5, 16.8)	<0.001	1.4 (0.6, 2.2)
Higher-Income Individuals	15.5 (15.3, 15.7)	15.3 (15.0, 15.6)	15.9 (15.6, 16.1)	16.2 (15.9, 16.4)	16.1 (15.9, 16.3)	16.2 (15.9, 16.6)	15.9 (15.6, 16.2)	16.6 (16.3, 16.8)	<0.001	1.1 (0.7, 1.4)
									0.29 ^b	0.30 ^b
Carbohydrate, % of energy										
SNAP participants	51.4 (49.9, 52.9)	53.8 (52.4, 55.3)	50.9 (49.8, 52.1)	49.3 (47.2, 51.5)	51.0 (49.8, 52.3)	51.5 (50.7, 52.3)	50.4 (49.2, 51.5)	50.1 (49.3, 50.9)	0.008	-1.3 (-3.0, 0.5)
Income-eligible nonparticipants	53.3 (51.9, 54.6)	51.7 (50.6, 52.8)	50.9 (50.1, 51.8)	50.8 (49.9, 51.7)	51.4 (50.4, 52.4)	50.9 (50.4, 51.3)	50.9 (50.2, 51.6)	49.3 (48.4, 50.1)	<0.001	-4.0 (-5.6, -2.4)
Higher-Income Individuals	50.1 (49.3, 50.9)	50.3 (49.4, 51.2)	48.4 (47.7, 49.1)	48.3 (47.8, 48.9)	48.5 (48.0, 49.1)	48.6 (48.1, 49.1)	48.5 (47.7, 49.2)	46.8 (46.3, 47.2)	<0.001	-3.3 (-4.2, -2.4)

									0.47 ^b	0.04 ^b
Cholesterol, mg/d										
SNAP participants	316 (283, 348)	254 (226, 281)	281 (266, 296)	284 (255, 313)	303 (288, 318)	276 (260, 291)	279 (261, 296)	267 (253, 281)	0.08	-49 (-84, -14)
Income-eligible nonparticipants	271 (250, 292)	280 (261, 299)	278 (256, 299)	292 (271, 313)	278 (265, 291)	287 (264, 310)	271 (253, 290)	269 (249, 289)	0.72	-3 (-31, 26)
Higher-Income Individuals	267 (257, 278)	257 (249, 266)	277 (266, 288)	277 (268, 286)	281 (271, 291)	266 (257, 274)	273 (261, 284)	278 (271, 284)	0.06	10 (-2, 22)
									0.05 ^b	0.01 ^b
Fiber, g/d										
SNAP participants	13.7 (10.7, 16.7)	13.2 (12.3, 14.1)	12.7 (11.9, 13.5)	13.1 (12.0, 14.2)	13.7 (12.7, 14.6)	14.6 (13.9, 15.4)	15.6 (14.6, 16.6)	13.5 (12.6, 14.4)	0.10	-0.2 (-3.3, 2.9)
Income-eligible nonparticipants	14.7 (13.6, 15.7)	14.8 (13.7, 15.9)	15.0 (14.1, 16.0)	15.8 (15.0, 16.7)	15.7 (14.4, 17.0)	16.5 (16.1, 17.0)	17.6 (16.5, 18.7)	15.7 (14.9, 16.6)	<0.001	1.1 (-0.2, 2.4)
Higher-Income Individuals	15.35 (14.6, 16.1)	15.7 (15.2, 16.2)	15.4 (14.9, 15.9)	16.0 (15.5, 16.5)	16.6 (16.0, 17.2)	17.7 (17.3, 18.1)	18.1 (17.6, 18.7)	17.0 (16.7, 17.4)	<0.001	1.7 (0.9, 2.5)
									0.24 ^b	0.29 ^b
Sodium, mg/d										
SNAP participants	3383 (3178, 3587)	3297 (3097, 3498)	3280 (3164, 3395)	3344 (3164, 3525)	3433 (3361, 3504)	3361 (3304, 3418)	3381 (3298, 3464)	3100 (3029, 3172)	0.06	-282 (-497, -67)
Income-eligible nonparticipants	3285 (3145, 3425)	3401 (3272, 3530)	3433 (3274, 3592)	3428 (3278, 3578)	3411 (3291, 3531)	3493 (3381, 3606)	3533 (3422, 3643)	3239 (3159, 3319)	0.51	-46 (-206, 114)
Higher-Income Individuals	3459 (3389, 3529)	3354 (3310, 3398)	3484 (3432, 3536)	3601 (3530, 3672)	3564 (3511, 3617)	3509 (3461, 3557)	3438 (3400, 3476)	3330 (3278, 3381)	0.20	-129 (-215, -43)
									0.20 ^b	0.32 ^b
Potassium, mg/d										
SNAP participants	2392 (2205, 2579)	2236 (2118, 2353)	2359 (2268, 2450)	2515 (2400, 2631)	2352 (2269, 2436)	2454 (2393, 2515)	2452 (2382, 2522)	2199 (2114, 2284)	0.39	-193 (-396, 11)
Income-eligible nonparticipants	2533 (2414, 2652)	2446 (2347, 2546)	2501 (2425, 2577)	2635 (2533, 2738)	2519 (2425, 2612)	2613 (2543, 2683)	2625 (2538, 2711)	2373 (2286, 2460)	0.97	-161 (-307, -15)
Higher-Income Individuals	2724 (2650, 2799)	2675 (2621, 2728)	2659 (2620, 2699)	2709 (2647, 2772)	2687 (2631, 2743)	2803 (2765, 2840)	2779 (2720, 2838)	2597 (2554, 2639)	0.93	-128 (-213, -43)
									0.66 ^b	0.73 ^b
Magnesium, mg/d										
SNAP participants	234 (215, 252)	219 (209, 230)	231 (219, 243)	269 (252, 286)	253 (241, 264)	270 (262, 277)	274 (265, 282)	248 (234, 261)	<0.001	14 (-9, 37)
Income-eligible nonparticipants	253 (241, 265)	250 (238, 262)	255 (243, 267)	282 (272, 291)	287 (268, 306)	292 (284, 300)	289 (277, 297)	277 (265, 288)	<0.001	24 (8, 40)
Higher-Income Individuals	273 (264, 282)	271 (263, 279)	271 (265, 277)	299 (293, 304)	297 (290, 305)	310 (306, 314)	310 (302, 317)	296 (292, 301)	<0.001	23 (13, 33)
									0.82 ^b	0.71 ^b
Calcium, mg/d										
SNAP participants	698 (633, 763)	671 (627, 715)	761 (709, 814)	861 (781, 941)	794 (765, 824)	927 (905, 950)	944 (895, 992)	839 (808, 871)	<0.001	141 (69, 213)
Income-eligible nonparticipants	717 (685, 748)	744 (689, 798)	776 (740, 812)	872 (827, 917)	903 (841, 966)	930 (906, 954)	968 (900, 1035)	881 (840, 921)	<0.001	164 (113, 215)
Higher-Income Individuals	806 (775, 838)	825 (805, 846)	841 (812, 870)	921 (898, 943)	930 (905, 954)	1001 (982, 1019)	936 (913, 960)	911 (895, 927)	<0.001	105 (70, 140)
									0.005 ^b	0.21 ^b

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

^a. Means were adjusted for energy to 2000 kcal/d using the residual method except for the means of fat, protein and carbohydrate, which were adjusted as percentage (%) of total energy

^b. Survey-weighted P for interaction that assessed whether the trend in mean take or change in mean intake differed by SNAP participation status.

eTable 3. Adjusted Trends in the American Heart Association (AHA) 2020 Diet Score by SNAP Participation Status, 2003-2014^a

Diet Score	Survey-Weighted Mean Score (95% CI) ^a						P for Trend	Mean Change From 2003-2004 to 2013-2014 (95% CI)
	2003-2004 (n=4066)	2005-2006 (n=4030)	2007-2008 (n=4654)	2009-2010 (n=4996)	2011-2012 (n=4288)	2013-2014 (n=4437)		
Total AHA diet score (unadjusted)								
SNAP participants	31.5 (29.2, 33.8)	30.8 (28.6, 32.9)	31.1 (29.5, 32.8)	32.8 (31.2, 34.5)	33.8 (32.7, 34.8)	32.1 (30.6, 33.6)	0.11	0.57 (-2.18, 0.33)
Income-eligible nonparticipants	34.2 (32.6, 35.9)	34.7 (33.1, 36.3)	34.9 (32.7, 37.1)	36.3 (34.8, 37.9)	36.5 (35.2, 37.7)	36.8 (35.3, 38.3)	0.004	2.56 (0.36, 4.76)
Higher-income individuals	35.8 (34.6, 36.9)	36.4 (35.3, 37.4)	36.7 (35.5, 37.8)	38.7 (37.9, 39.4)	40.0 (38.5, 41.5)	39.6 (38.7, 40.5)	<0.001 0.02 ^b	3.84 (2.39, 5.29) 0.04 ^c
Total AHA diet score (adjusted for differences in age, sex, and race/ethnicity over time)								
SNAP participants	32.5 (30.4, 34.6)	31.9 (29.8, 34.1)	31.9 (30.4, 33.3)	33.3 (31.8, 34.8)	34.4 (33.4, 35.5)	32.5 (30.9, 34.1)	0.21	0.01 (-2.17, 2.20)
Income-eligible nonparticipants	34.4 (32.8, 35.9)	34.4 (32.9, 36.0)	34.6 (32.2, 37.1)	36.3 (34.7, 38.0)	36.4 (35.0, 37.7)	36.7 (35.2, 38.3)	0.008	2.16 (0.01, 4.30)
Higher-income individuals	35.9 (34.8, 37.1)	36.5 (35.4, 37.5)	36.7 (35.5, 37.8)	38.5 (37.8, 39.2)	39.7 (38.1, 41.2)	39.2 (38.3, 40.2)	<0.001 0.01 ^b	3.33 (1.86, 4.80) 0.02 ^c
Total AHA diet score (adjusted for differences in age, sex, race/ethnicity, and education over time)								
SNAP participants	34.2 (32.2,36.1)	33.4(31.2,35.5)	33.7(32.3,35.1)	35(33.6,36.4)	35.8(34.7,36.8)	33.9(32.4,35.4)	0.35	-0.25 (-2.36, 1.89)
Income-eligible nonparticipants	35.8 (34.3,37.3)	35.6(34.1,37.1)	35.9(33.8,38)	37.1(35.7,38.6)	37.3(36.2,38.4)	37.4(35.9,39)	0.04	1.51 (-0.54, 3.57)
Higher-income individuals	35.9 (34.9,36.8)	36.3(35.3,37.3)	36.5(35.5,37.4)	38.1(37.4,38.7)	38.8(37.3,40.2)	38.3(37.4,39.2)	<0.001 0.06 ^b	2.48 (1.23, 3.72) 0.048 ^c
Total AHA diet score (adjusted for differences in age, sex, race/ethnicity, and income over time)								
SNAP participants	34.8 (32.8, 36.9)	33.9 (31.7,36.1)	34.2(32.6,35.9)	35.7 (34.3,37.0)	36.6(35.4,37.7)	34.5(33,36)	0.27	-0.16 (-2.33, 2.01)
Income-eligible nonparticipants	37.0 (35.4, 38.6)	37.1 (35.5,38.7)	37.3(34.9,39.6)	39.0 (37.3,40.7)	39.1(37.6,40.6)	39.3(37.6,40.9)	<0.01	2.18 (0.04, 4.32)
Higher-income individuals	35.1 (34.0, 36.2)	35.6 (34.5,36.7)	35.8(34.5,37.1)	37.6(36.9,38.3)	38.9(37.3,40.5)	38.3(37.4,39.2)	<0.001 0.04 ^b	3.17 (1.78, 4.56) 0.01 ^c

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

^a. The total AHA diet score is the sum of the scores for 8 primary dietary components (fruits/vegetables, whole grains, fish/shellfish, sugar-sweetened beverages, and sodium, nuts/seeds/legumes, processed meat, and saturated fat).

^b. P for interaction assessing potential heterogeneous trends in total AHA diet score by SNAP participation status (SNAP participants, income-eligible nonparticipants, and higher-income individuals)

^c. P for interaction assessing potential heterogeneous changes in total AHA diet score from 2003-2004 to 2013-2014 by SNAP participation status (SNAP participants, income-eligible nonparticipants, and higher-income individuals)

eTable 4. Adjusted Trends in AHA Diet Score Among U.S. Adults by SNAP Participation Status, 2003-2014^a

Diet Score	Survey-Weighted Mean Score (95% CI)						P for Trend	Mean Change From 2003-2004 To 2013-2014 (95% CI)
	2003-2004 (n=4066)	2005-2006 (n=4030)	2007-2008 (n=4654)	2009-2010 (n=4996)	2011-2012 (n=4288)	2013-2014 (n=4437)		
Total AHA Diet Score								
SNAP participants	32.5 (30.4, 34.6)	31.9 (29.8, 34.1)	31.9 (30.4, 33.3)	33.3 (31.8, 34.8)	34.4 (33.4, 35.5)	32.5 (30.9, 34.1)	0.21	0.0 (-2.2, 2.2)
Income-eligible nonparticipants	34.4 (32.8, 35.9)	34.4 (32.9, 36.0)	34.6 (32.2, 37.1)	36.3 (34.7, 38.0)	36.4 (35.0, 37.7)	36.7 (35.2, 38.3)	0.008	2.2 (0.0, 4.3)
Higher-Income Individuals	35.9 (34.8, 37.1)	36.5 (35.4, 37.5)	36.7 (35.5, 37.8)	38.5 (37.8, 39.2)	39.7 (38.1, 41.2)	39.2 (38.3, 40.2)	<0.001	3.3 (1.9, 4.8)
							0.01 ^b	0.02 ^b
Fruits and vegetables								
SNAP participants	4.04 (3.71, 4.38)	4.13 (3.69, 4.58)	4.00 (3.62, 4.37)	4.07 (3.79, 4.35)	4.20 (3.94, 4.46)	3.77 (3.46, 4.07)	0.45	-0.25 (-0.67, 0.16)
Income-eligible nonparticipants	4.67 (4.20, 5.14)	4.79 (4.54, 5.04)	4.45 (4.10, 4.80)	4.75 (4.53, 4.98)	4.86 (4.50, 5.22)	4.61 (4.21, 5.01)	0.85	-0.11 (-0.69, 0.48)
Higher-Income Individuals	5.22 (4.96, 5.48)	5.17 (4.96, 5.39)	5.16 (4.90, 5.41)	5.39 (5.25, 5.53)	5.36 (5.07, 5.65)	5.10 (4.93, 5.27)	0.81	-0.11 (-0.43, 0.2)
							0.63 ^b	0.80 ^b
Whole grains								
SNAP participants	1.71 (1.22, 2.19)	1.79 (1.47, 2.12)	1.79 (1.59, 1.99)	2.19 (1.89, 2.48)	2.61 (2.25, 2.96)	2.40 (2.18, 2.62)	<0.001	0.68 (0.20, 1.17)
Income-eligible nonparticipants	2.01 (1.59, 2.42)	2.20 (1.83, 2.56)	2.07 (1.74, 2.41)	2.64 (2.33, 2.96)	2.79 (2.47, 3.11)	2.67 (2.26, 3.08)	0.002	0.66 (0.09, 1.24)
Higher-Income Individuals	2.15 (1.96, 2.34)	2.52 (2.36, 2.67)	2.54 (2.30, 2.78)	2.95 (2.77, 3.13)	3.23 (2.98, 3.47)	3.14 (3.02, 3.25)	<0.001	0.99 (0.77, 1.22)
							0.51 ^b	0.30 ^b
Fish and shellfish								
SNAP participants	2.16 (1.64, 2.67)	1.93 (1.36, 2.51)	1.88 (1.54, 2.22)	2.34 (1.75, 2.93)	2.06 (1.67, 2.46)	1.90 (1.38, 2.43)	0.90	-0.20 (-0.89, 0.49)
Income-eligible nonparticipants	2.30 (1.80, 2.79)	2.18 (1.73, 2.62)	2.06 (1.54, 2.58)	2.60 (2.02, 3.18)	2.09 (1.63, 2.56)	2.14 (1.76, 2.52)	0.76	-0.14 (-0.72, 0.44)
Higher-Income Individuals	2.70 (2.37, 3.03)	2.79 (2.54, 3.05)	2.62 (2.33, 2.92)	2.83 (2.54, 3.13)	2.64 (2.26, 3.03)	2.66 (2.32, 3.00)	0.73	-0.04 (-0.51, 0.42)
							0.99 ^b	0.82 ^b
Sugar-sweetened beverages								
SNAP participants	4.44 (3.87, 5.00)	5.26 (4.63, 5.89)	4.87 (4.26, 5.48)	5.09 (4.68, 5.50)	5.82 (5.35, 6.29)	5.16 (4.43, 5.89)	0.04	0.68 (-0.13, 1.48)
Income-eligible nonparticipants	4.84 (4.29, 5.40)	5.53 (4.89, 6.17)	5.42 (4.84, 6.00)	5.94 (5.37, 6.50)	6.17 (5.68, 6.66)	6.85 (6.21, 7.48)	<0.001	1.97 (1.17, 2.77)
Higher-Income Individuals	5.98 (5.59, 6.36)	6.53 (6.23, 6.83)	6.49 (6.22, 6.76)	7.00 (6.78, 7.22)	6.96 (6.56, 7.36)	7.25 (6.92, 7.57)	<0.001	1.29 (0.80, 1.78)
							0.07 ^b	0.07 ^b
Sodium								
SNAP participants	4.26 (3.91, 4.61)	4.04 (3.52, 4.55)	3.79 (3.60, 3.99)	3.86 (3.64, 4.08)	3.87 (3.60, 4.14)	3.92 (3.58, 4.26)	0.23	-0.34 (-0.81, 0.14)
Income-eligible nonparticipants	3.87 (3.40, 4.35)	3.80 (3.43, 4.17)	3.77 (3.54, 4.00)	3.67 (3.42, 3.93)	3.55 (3.36, 3.75)	3.72 (3.39, 4.05)	0.35	-0.15 (-0.71, 0.41)
Higher-Income Individuals	3.66 (3.49, 3.84)	3.39 (3.25, 3.54)	3.42 (3.31, 3.52)	3.57 (3.41, 3.74)	3.83 (3.74, 3.93)	3.76 (3.62, 3.91)	0.003	0.09 (-0.13, 0.31)
							0.007 ^b	0.15 ^b

Nuts, seeds and legumes

SNAP participants	4.02 (3.67, 4.37)	4.02 (3.23, 4.80)	3.73 (3.08, 4.38)	4.08 (3.68, 4.49)	4.14 (3.54, 4.74)	4.16 (3.75, 4.57)	0.38	0.16 (-0.41, 0.72)
Income-eligible nonparticipants	4.58 (4.08, 5.08)	3.97 (3.53, 4.41)	4.46 (3.87, 5.04)	4.42 (3.90, 4.94)	4.62 (3.99, 5.24)	4.77 (4.23, 5.31)	0.34	0.13 (-0.64, 0.91)
Higher-Income Individuals	4.43 (4.19, 4.66)	4.65 (4.33, 4.97)	4.72 (4.35, 5.09)	4.78 (4.53, 5.03)	5.47 (5.16, 5.77)	5.39 (5.10, 5.68)	<0.001	0.97 (0.61, 1.34)
							0.03 ^b	0.02 ^b
Processed meat								
SNAP participants	7.02 (6.68, 7.36)	6.12 (5.40, 6.85)	6.45 (6.00, 6.90)	6.35 (5.90, 6.80)	6.37 (5.85, 6.88)	6.11 (5.65, 6.57)	0.03	-0.90 (-1.45, -0.36)
Income-eligible nonparticipants	7.00 (6.52, 7.49)	6.77 (6.41, 7.12)	6.70 (6.13, 7.27)	6.69 (6.31, 7.08)	6.73 (6.43, 7.04)	6.67 (6.21, 7.13)	0.28	-0.36 (-1.01, 0.29)
Higher-Income Individuals	6.74 (6.56, 6.92)	6.49 (6.15, 6.83)	6.69 (6.47, 6.92)	6.65 (6.39, 6.92)	6.72 (6.40, 7.04)	6.86 (6.59, 7.14)	0.25	0.12 (-0.21, 0.45)
							0.01 ^b	0.001 ^b
Saturated fat								
SNAP participants	4.86 (4.30, 5.43)	4.61 (4.16, 5.07)	5.35 (4.83, 5.87)	5.35 (5.10, 5.59)	5.35 (5.03, 5.67)	5.09 (4.72, 5.45)	0.23	0.19 (-0.45, 0.84)
Income-eligible nonparticipants	5.11 (4.70, 5.52)	5.21 (4.96, 5.45)	5.69 (5.32, 6.06)	5.61 (5.34, 5.88)	5.56 (5.20, 5.92)	5.28 (5.00, 5.57)	0.29	0.15 (-0.33, 0.63)
Higher-Income Individuals	5.05 (4.80, 5.29)	4.90 (4.72, 5.09)	5.02 (4.81, 5.22)	5.35 (5.18, 5.52)	5.47 (5.21, 5.73)	5.06 (4.87, 5.25)	0.02	0.02 (-0.28, 0.32)
							0.94 ^b	0.72 ^b

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

^a Survey-weighted mean scores were adjusted for age, sex, and race/ethnicity

^b Survey-weighted P for interaction that assessed whether the trend in mean take or change in mean intake differed by SNAP participation status.

eTable 5. Adjusted Trends in Percentages of Having Poor, Intermediate, and Ideal Diet among U.S. Adults by SNAP Participation Status, 2003-2014^a

Percentage of Having Poor, Intermediate, and Ideal Diet	Survey-Weighted % (95% CI)						P for trend	Change in % from 2003-2004 to 2013-2014
	2003-2004 (n=4066)	2005-2006 (n=4030)	2007-2008 (n=4654)	2009-2010 (n=4996)	2011-2012 (n=4288)	2013-2014 (n=4437)		
Poor diet								
SNAP participants	49.9 (47.0, 52.9)	49.6 (46.9, 52.3)	49.3 (46.5, 52.0)	49.1 (46.2, 51.9)	48.7 (45.9, 51.4)	48.3 (45.7, 51.0)	0.39	-1.6 (-1.9, -1.4)
Income-eligible nonparticipants	40.8 (38.0, 43.5)	40.4 (37.6, 43.2)	40.1 (37.5, 42.7)	39.9 (37.3, 42.5)	39.6 (37.0, 42.1)	39.2 (36.7, 41.7)	0.17	-1.5 (-1.8, -1.3)
Higher-Income Individuals	35.2 (33.4, 36.9)	34.8 (33.2, 36.5)	34.5 (32.9, 36.2)	34.3 (32.7, 35.9)	34.0 (32.3, 35.7)	33.7 (32.2, 35.2)	<0.001 0.70 ^b	-1.5 (-1.7, -1.2) 0.53 ^b
Intermediate diet								
SNAP participants	49.3 (46.4, 52.2)	49.6 (47.0, 52.3)	49.9 (47.2, 52.7)	50.1 (47.3, 52.9)	50.5 (47.8, 53.2)	50.8 (48.1, 53.5)	0.53	1.5 (1.3, 1.7)
Income-eligible nonparticipants	58.0 (55.4, 60.6)	58.4 (55.7, 61.1)	58.7 (56.2, 61.2)	58.9 (56.4, 61.3)	59.2 (56.7, 61.6)	59.5 (57.1, 61.8)	0.29	1.4 (1.2, 1.7)
Higher-Income Individuals	62.9 (61.2, 64.6)	63.2 (61.7, 64.8)	63.5 (62.0, 65.1)	63.7 (62.2, 65.2)	63.9 (62.3, 65.6)	64.2 (62.8, 65.7)	<0.001 0.80 ^b	1.3 (1.0, 1.5) 0.64 ^b
Ideal diet								
SNAP participants	0.8 (0.4, 1.1)	0.8 (0.4, 1.2)	0.8 (0.4, 1.2)	0.8 (0.4, 1.2)	0.8 (0.4, 1.2)	0.8 (0.4, 1.2)	0.11	0.0 (0.0, 0.1)
Income-eligible nonparticipants	1.2 (0.7, 1.7)	1.2 (0.7, 1.7)	1.2 (0.7, 1.7)	1.2 (0.7, 1.7)	1.3 (0.8, 1.8)	1.3 (0.8, 1.8)	0.15	0.1 (0.1, 0.2)
Higher-Income Individuals	1.9 (1.6, 2.2)	1.9 (1.6, 2.3)	2.0 (1.6, 2.3)	2.0 (1.7, 2.3)	2.0 (1.7, 2.4)	2.1 (1.8, 2.4)	0.01 0.50 ^b	0.2 (0.2, 0.2) 0.44 ^b

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

^a Survey-weighted mean scores were adjusted for age, sex, and race/ethnicity

^b Survey-weighted P for interaction that assessed whether the trend in mean take or change in mean intake differed by SNAP participation status.

eTable 6. Adjusted Trends in Dietary Intake of Key Food Groups and Nutrients Among U.S. Adults by SNAP Participation Status, 1999-2014^a

Dietary Intake	Survey-Weighted Mean Intake (95% CI)								P for trend	Mean change from 1999-2000 to 2013-2014 (95% CI)
	1999-2000 (n=4232)	2001-2002 (n=4744)	2003-2004 (n=4386)	2005-2006 (n=4473)	2007-2008 (n=5384)	2009-2010 (n=5710)	2011-2012 (n=4774)	2013-2014 (n=4993)		
Total fruits, servings/d										
SNAP participants	0.72 (0.54, 0.90)	0.77 (0.60, 0.94)	0.82 (0.68, 0.96)	0.81 (0.63, 0.99)	0.77 (0.63, 0.90)	0.86 (0.79, 0.94)	0.92 (0.81, 1.03)	0.72 (0.61, 0.82)	0.52	0 (-0.21, 0.21)
Income-eligible nonparticipants	0.98 (0.74, 1.21)	0.83 (0.63, 1.03)	0.88 (0.75, 1.02)	0.96 (0.91, 1.02)	0.86 (0.72, 1.00)	0.94 (0.83, 1.05)	0.99 (0.84, 1.13)	0.83 (0.69, 0.96)	0.81	-0.15 (-0.41, 0.11)
Higher-Income Individuals	1.04 (0.91, 1.17)	1.15 (1.05, 1.26)	1.04 (0.92, 1.15)	1.00 (0.92, 1.08)	1.02 (0.92, 1.12)	1.11 (1.06, 1.16)	1.05 (0.96, 1.14)	0.92 (0.86, 0.98)	0.08	-0.12 (-0.26, 0.02)
									0.20 ^b	0.44 ^b
Whole fruits, servings/d										
SNAP participants	0.40 (0.27, 0.54)	0.45 (0.36, 0.54)	0.43 (0.35, 0.52)	0.42 (0.32, 0.52)	0.50 (0.40, 0.61)	0.53 (0.48, 0.59)	0.59 (0.49, 0.69)	0.49 (0.39, 0.59)	0.03	0.07 (-0.1, 0.24)
Income-eligible nonparticipants	0.55 (0.40, 0.70)	0.55 (0.40, 0.70)	0.55 (0.45, 0.65)	0.62 (0.58, 0.66)	0.55 (0.44, 0.66)	0.62 (0.52, 0.72)	0.65 (0.58, 0.72)	0.58 (0.49, 0.68)	0.30	0.03 (-0.15, 0.2)
Higher-Income Individuals	0.63 (0.55, 0.72)	0.69 (0.63, 0.74)	0.65 (0.58, 0.73)	0.66 (0.60, 0.72)	0.73 (0.66, 0.80)	0.81 (0.77, 0.84)	0.78 (0.70, 0.85)	0.70 (0.65, 0.76)	0.001	0.07 (-0.03, 0.17)
									0.70 ^b	0.87 ^b
100% fruit juices, servings/d										
SNAP participants	0.33 (0.22, 0.43)	0.42 (0.25, 0.58)	0.39 (0.31, 0.47)	0.63 (0.13, 1.13)	0.31 (0.23, 0.38)	0.35 (0.31, 0.39)	0.37 (0.27, 0.47)	0.25 (0.20, 0.30)	0.05	-0.07 (-0.18, 0.04)
Income-eligible nonparticipants	0.47 (0.32, 0.61)	0.32 (0.25, 0.39)	0.35 (0.29, 0.42)	0.33 (0.3, 0.37)	0.35 (0.28, 0.42)	0.36 (0.3, 0.42)	0.35 (0.22, 0.47)	0.30 (0.23, 0.37)	0.12	-0.17 (-0.33, -0.01)
Higher-Income Individuals	0.43 (0.37, 0.49)	0.44 (0.39, 0.49)	0.39 (0.34, 0.45)	0.36 (0.33, 0.39)	0.30 (0.27, 0.34)	0.33 (0.29, 0.36)	0.27 (0.23, 0.31)	0.22 (0.20, 0.24)	<0.001	-0.21 (-0.27, -0.14)
									0.10 ^b	0.17 ^b
Total vegetables, servings/d										
SNAP participants	1.48 (1.22, 1.73)	1.37 (1.22, 1.52)	1.45 (1.31, 1.58)	1.40 (1.25, 1.56)	1.41 (1.25, 1.57)	1.29 (1.23, 1.35)	1.37 (1.29, 1.46)	1.22 (1.11, 1.32)	0.01	-0.26 (-0.53, 0.01)
Income-eligible nonparticipants	1.41 (1.27, 1.56)	1.45 (1.28, 1.62)	1.52 (1.43, 1.61)	1.52 (1.39, 1.65)	1.43 (1.31, 1.55)	1.5 (1.42, 1.58)	1.52 (1.41, 1.63)	1.31 (1.19, 1.42)	0.49	-0.11 (-0.3, 0.07)
Higher-Income Individuals	1.70 (1.61, 1.79)	1.64 (1.56, 1.72)	1.67 (1.63, 1.72)	1.66 (1.59, 1.72)	1.66 (1.60, 1.72)	1.68 (1.61, 1.75)	1.70 (1.61, 1.80)	1.55 (1.49, 1.62)	0.21	-0.15 (-0.26, -0.03)
									0.20 ^b	0.70 ^b
Dark-green vegetables, servings/d										
SNAP participants	0.06 (0.04, 0.09)	0.06 (0.04, 0.08)	0.05 (0.03, 0.07)	0.11 (0.07, 0.14)	0.07 (0.06, 0.09)	0.09 (0.08, 0.10)	0.09 (0.06, 0.12)	0.1 (0.06, 0.13)	0.02	0.03 (-0.01, 0.07)
Income-eligible nonparticipants	0.06 (0.04, 0.07)	0.08 (0.05, 0.10)	0.08 (0.06, 0.10)	0.11 (0.08, 0.13)	0.10 (0.06, 0.14)	0.10 (0.06, 0.13)	0.13 (0.08, 0.18)	0.11 (0.08, 0.14)	<0.001	0.06 (0.03, 0.09)
Higher-Income Individuals	0.14 (0.10, 0.18)	0.14 (0.11, 0.16)	0.13 (0.11, 0.14)	0.15 (0.13, 0.17)	0.14 (0.12, 0.16)	0.16 (0.14, 0.17)	0.18 (0.14, 0.21)	0.19 (0.16, 0.21)	0.003	0.04 (0, 0.09)
									0.76 ^b	0.69 ^b
Tomatoes, servings/d										
SNAP participants	0.25 (0.19, 0.31)	0.35 (0.28, 0.42)	0.34 (0.28, 0.40)	0.28 (0.24, 0.32)	0.27 (0.24, 0.30)	0.26 (0.23, 0.29)	0.29 (0.26, 0.32)	0.22 (0.20, 0.24)	0.005	-0.03 (-0.09, 0.04)
Income-eligible nonparticipants	0.27 (0.21, 0.33)	0.33 (0.27, 0.40)	0.34 (0.27, 0.41)	0.33 (0.28, 0.37)	0.26 (0.24, 0.29)	0.28 (0.25, 0.32)	0.31 (0.28, 0.33)	0.27 (0.24, 0.30)	0.27	0 (-0.07, 0.07)
Higher-Income Individuals	0.31 (0.28, 0.34)	0.34 (0.31, 0.38)	0.37 (0.33, 0.40)	0.32 (0.30, 0.34)	0.33 (0.31, 0.34)	0.31 (0.27, 0.34)	0.31 (0.29, 0.34)	0.28 (0.26, 0.29)	0.002	-0.04 (-0.07, 0)
									0.39 ^b	0.65 ^b

Other red/orange vegetables, servings/d

SNAP	0.06	0.07	0.05	0.06	0.05	0.07	0.07	0.08		0.02
participants	(0.04, 0.09)	(0.05, 0.09)	(0.03, 0.07)	(0.04, 0.08)	(0.04, 0.07)	(0.06, 0.08)	(0.05, 0.10)	(0.06, 0.10)	0.10	(-0.02, 0.05)
Income-eligible	0.07	0.07	0.08	0.08	0.09	0.09	0.08	0.08		0.01
nonparticipants	(0.05, 0.09)	(0.06, 0.09)	(0.06, 0.10)	(0.07, 0.09)	(0.05, 0.13)	(0.08, 0.10)	(0.06, 0.11)	(0.06, 0.10)	0.15	(-0.01, 0.04)
Higher-Income	0.09	0.09	0.08	0.09	0.09	0.11	0.12	0.11		0.02
Individuals	(0.08, 0.11)	(0.07, 0.11)	(0.07, 0.08)	(0.08, 0.10)	(0.07, 0.10)	(0.10, 0.12)	(0.11, 0.14)	(0.09, 0.12)	<0.001	(-0.01, 0.04)
									0.48 ^b	0.97 ^b

White potatoes, servings/d

SNAP	0.49	0.32	0.47	0.38	0.40	0.36	0.34	0.33		-0.16
participants	(0.40, 0.58)	(0.23, 0.40)	(0.41, 0.52)	(0.31, 0.44)	(0.36, 0.45)	(0.33, 0.38)	(0.29, 0.39)	(0.30, 0.36)	0.002	(-0.25, -0.06)
Income-eligible	0.38	0.35	0.42	0.36	0.37	0.37	0.37	0.32		-0.06
nonparticipants	(0.29, 0.47)	(0.27, 0.43)	(0.36, 0.49)	(0.30, 0.42)	(0.31, 0.44)	(0.31, 0.42)	(0.30, 0.45)	(0.27, 0.36)	0.32	(-0.16, 0.04)
Higher-Income	0.39	0.37	0.37	0.35	0.37	0.36	0.32	0.32		-0.07
Individuals	(0.34, 0.43)	(0.35, 0.39)	(0.34, 0.41)	(0.32, 0.39)	(0.33, 0.40)	(0.34, 0.38)	(0.29, 0.34)	(0.29, 0.35)	0.001	(-0.12, -0.01)
									0.12 ^b	0.049 ^b

Other starchy vegetables, servings/d

SNAP	0.09	0.09	0.08	0.08	0.09	0.08	0.08	0.07		-0.02
participants	(0.05, 0.13)	(0.04, 0.15)	(0.05, 0.11)	(0.06, 0.11)	(0.07, 0.10)	(0.07, 0.10)	(0.04, 0.12)	(0.05, 0.09)	0.25	(-0.07, 0.02)
Income-eligible	0.10	0.10	0.07	0.08	0.09	0.09	0.08	0.06		-0.04
nonparticipants	(0.06, 0.13)	(0.08, 0.13)	(0.05, 0.09)	(0.07, 0.10)	(0.07, 0.10)	(0.07, 0.11)	(0.05, 0.11)	(0.04, 0.08)	0.07	(-0.08, 0)
Higher-Income	0.10	0.10	0.08	0.09	0.09	0.09	0.08	0.07		-0.03
Individuals	(0.08, 0.11)	(0.09, 0.11)	(0.07, 0.09)	(0.08, 0.11)	(0.08, 0.11)	(0.07, 0.10)	(0.07, 0.09)	(0.06, 0.08)	<0.001	(-0.04, -0.01)
									0.89 ^b	0.88 ^b

Vegetables, excluding potatoes/starchy, servings/d

SNAP	0.89	0.96	0.90	0.94	0.92	0.85	0.95	0.82 (0.73, 0.91)		-0.08
participants	(0.67, 1.11)	(0.81, 1.11)	(0.80, 1.00)	(0.81, 1.08)	(0.80, 1.04)	(0.77, 0.93)	(0.88, 1.03)		0.32	(-0.31, 0.16)
Income-eligible	0.94	0.99	1.02	1.08	0.97	1.04	1.07	0.93 (0.83, 1.03)		-0.02
nonparticipants	(0.81, 1.07)	(0.84, 1.14)	(0.91, 1.13)	(0.97, 1.18)	(0.85, 1.09)	(0.97, 1.11)	(0.95, 1.19)		0.80	(-0.17, 0.14)
Higher-Income	1.22	1.17	1.21	1.21	1.20	1.23	1.31	1.16 (1.09, 1.24)		-0.05
Individuals	(1.10, 1.33)	(1.09, 1.25)	(1.16, 1.27)	(1.13, 1.28)	(1.12, 1.27)	(1.16, 1.30)	(1.20, 1.41)		0.57	(-0.19, 0.08)
									0.48 ^b	0.90 ^b

Total grains, servings/d

SNAP	5.46	6.48	6.12	5.93	5.98	6.24	6.31	5.47		-0.03
participants	(4.97, 5.95)	(5.82, 7.13)	(5.85, 6.39)	(5.63, 6.23)	(5.75, 6.22)	(6.03, 6.45)	(5.97, 6.64)	(5.15, 5.78)	0.29	(-0.59, 0.53)
Income-eligible	6.10	6.71	6.39	6.16	6.02	6.37	6.60	5.87		-0.27
nonparticipants	(5.74, 6.47)	(6.28, 7.13)	(6.08, 6.70)	(5.82, 6.49)	(5.72, 6.31)	(6.14, 6.61)	(6.11, 7.09)	(5.56, 6.18)	0.27	(-0.76, 0.21)
Higher-Income	6.08	6.32	6.27	6.18	6.10	6.15	6.14	5.91		-0.15
Individuals	(5.86, 6.30)	(6.18, 6.47)	(6.09, 6.44)	(6.06, 6.29)	(5.98, 6.21)	(6.01, 6.29)	(5.98, 6.31)	(5.74, 6.09)	0.04	(-0.43, 0.12)
									0.99 ^b	0.81 ^b

Whole grains, servings/d

SNAP	0.48	0.50	0.54	0.56	0.54	0.70	0.83	0.72		0.24
participants	(0.32, 0.63)	(0.33, 0.67)	(0.41, 0.67)	(0.43, 0.69)	(0.50, 0.58)	(0.61, 0.78)	(0.71, 0.96)	(0.64, 0.8)	<0.001	(0.06, 0.42)
Income-eligible	0.48	0.62	0.59	0.69	0.64	0.84	0.88	0.79		0.33
nonparticipants	(0.40, 0.57)	(0.48, 0.75)	(0.50, 0.68)	(0.55, 0.84)	(0.51, 0.76)	(0.73, 0.95)	(0.79, 0.97)	(0.65, 0.94)	<0.001	(0.16, 0.49)
Higher-Income	0.62	0.75	0.69	0.81	0.79	0.92	1.05	0.96		0.34
Individuals	(0.55, 0.69)	(0.68, 0.82)	(0.65, 0.74)	(0.74, 0.87)	(0.70, 0.88)	(0.86, 0.99)	(0.96, 1.14)	(0.91, 1.01)	<0.001	(0.25, 0.42)
									0.83 ^b	0.62 ^b

Refined grains, servings/d

SNAP	4.98	5.97	5.58	5.37	5.45	5.54	5.48	4.74		-0.26
participants	(4.49, 5.47)	(5.27, 6.68)	(5.26, 5.9)	(5.10, 5.64)	(5.21, 5.68)	(5.36, 5.72)	(5.18, 5.78)	(4.46, 5.03)	0.01	(-0.82, 0.29)
Income-eligible	5.62	6.09	5.80	5.46	5.38	5.54	5.72	5.08		-0.6
nonparticipants	(5.28, 5.95)	(5.67, 6.51)	(5.46, 6.14)	(5.13, 5.80)	(5.12, 5.64)	(5.28, 5.79)	(5.27, 6.17)	(4.8, 5.35)	0.003	(-1.04, -0.16)

Higher-Income Individuals	5.46 (5.26, 5.65)	5.58 (5.41, 5.74)	5.57 (5.41, 5.73)	5.37 (5.23, 5.50)	5.31 (5.21, 5.40)	5.23 (5.08, 5.37)	5.10 (4.96, 5.24)	4.96 (4.80, 5.11)	<0.001 0.94 ^b	-0.49 (-0.74, -0.24) 0.68 ^b
Nuts and seeds, servings/d										
SNAP participants	0.30 (0.19, 0.41)	0.41 (0.05, 0.78)	0.40 (0.30, 0.51)	0.41 (0.34, 0.48)	0.41 (0.26, 0.56)	0.40 (0.32, 0.47)	0.39 (0.29, 0.5)	0.40 (0.28, 0.51)	0.57	0.11 (-0.05, 0.26) -0.02
Income-eligible nonparticipants	0.54 (0.38, 0.69)	0.49 (0.27, 0.7)	0.53 (0.44, 0.63)	0.51 (0.39, 0.63)	0.50 (0.30, 0.70)	0.50 (0.42, 0.59)	0.43 (0.28, 0.59)	0.49 (0.41, 0.57)	0.54	-0.02 (-0.19, 0.14) 0.34
Higher-Income Individuals	0.46 (0.40, 0.53)	0.50 (0.42, 0.58)	0.56 (0.49, 0.63)	0.61 (0.55, 0.67)	0.60 (0.53, 0.66)	0.70 (0.63, 0.76)	0.83 (0.74, 0.92)	0.80 (0.74, 0.87)	<0.001 <0.001 ^b	0.34 (0.25, 0.43) 0.000 ^b
Legumes, servings/d										
SNAP participants	0.12 (0.05, 0.18)	0.17 (0.08, 0.26)	0.12 (0.09, 0.14)	0.08 (0.05, 0.11)	0.09 (0.06, 0.11)	0.11 (0.09, 0.14)	0.11 (0.08, 0.15)	0.09 (0.08, 0.10)	0.17	-0.03 (-0.09, 0.04) -0.01
Income-eligible nonparticipants	0.11 (0.08, 0.14)	0.11 (0.08, 0.13)	0.10 (0.05, 0.14)	0.11 (0.08, 0.13)	0.12 (0.08, 0.17)	0.10 (0.07, 0.13)	0.14 (0.09, 0.19)	0.11 (0.09, 0.13)	0.51	-0.01 (-0.04, 0.03) -0.01
Higher-Income Individuals	0.10 (0.08, 0.12)	0.09 (0.08, 0.11)	0.09 (0.08, 0.10)	0.09 (0.08, 0.11)	0.10 (0.08, 0.11)	0.09 (0.08, 0.1)	0.10 (0.09, 0.12)	0.09 (0.08, 0.10)	0.84 0.31 ^b	-0.01 (-0.03, 0.01) 0.85 ^b
Total meat, serving/d										
SNAP participants	1.26 (1.05, 1.47)	1.10 (0.99, 1.20)	1.10 (1.00, 1.19)	1.23 (1.12, 1.33)	1.22 (1.12, 1.31)	1.19 (1.13, 1.26)	1.10 (1.03, 1.17)	1.14 (1.07, 1.21)	0.56	-0.11 (-0.34, 0.11) -0.01
Income-eligible nonparticipants	1.04 (0.91, 1.17)	1.11 (1.00, 1.21)	1.04 (0.90, 1.18)	1.20 (1.10, 1.31)	1.12 (1.04, 1.20)	1.18 (1.10, 1.26)	1.15 (1.04, 1.25)	1.04 (0.97, 1.11)	0.51	-0.01 (-0.15, 0.12) -0.02
Higher-Income Individuals	1.14 (1.08, 1.20)	1.10 (1.07, 1.14)	1.18 (1.14, 1.21)	1.19 (1.15, 1.23)	1.20 (1.17, 1.23)	1.19 (1.14, 1.25)	1.14 (1.08, 1.20)	1.12 (1.08, 1.16)	0.64 0.50 ^b	-0.02 (-0.09, 0.06) 0.59 ^b
Processed meats, servings/d										
SNAP participants	0.36 (0.26, 0.46)	0.24 (0.19, 0.29)	0.30 (0.26, 0.33)	0.33 (0.26, 0.40)	0.33 (0.28, 0.39)	0.33 (0.29, 0.38)	0.30 (0.25, 0.36)	0.34 (0.26, 0.41)	0.54	-0.02 (-0.15, 0.1) 0.07
Income-eligible nonparticipants	0.23 (0.16, 0.29)	0.29 (0.24, 0.33)	0.29 (0.24, 0.33)	0.27 (0.23, 0.32)	0.30 (0.26, 0.33)	0.32 (0.27, 0.36)	0.28 (0.26, 0.31)	0.29 (0.26, 0.32)	0.09	0.07 (0, 0.13) -0.02
Higher-Income Individuals	0.29 (0.25, 0.33)	0.30 (0.28, 0.33)	0.30 (0.27, 0.32)	0.31 (0.28, 0.33)	0.29 (0.27, 0.31)	0.30 (0.28, 0.32)	0.30 (0.27, 0.33)	0.27 (0.24, 0.30)	0.53 0.12 ^b	-0.02 (-0.06, 0.03) 0.13 ^b
Unprocessed red meats, servings/d										
SNAP participants	0.55 (0.46, 0.63)	0.51 (0.43, 0.58)	0.48 (0.41, 0.54)	0.58 (0.48, 0.68)	0.53 (0.48, 0.58)	0.49 (0.46, 0.51)	0.46 (0.41, 0.51)	0.41 (0.37, 0.45)	0.005	-0.12 (-0.21, -0.03) -0.13
Income-eligible nonparticipants	0.48 (0.41, 0.55)	0.48 (0.41, 0.56)	0.43 (0.38, 0.49)	0.50 (0.45, 0.56)	0.42 (0.37, 0.47)	0.45 (0.40, 0.50)	0.47 (0.36, 0.57)	0.36 (0.33, 0.40)	0.02	-0.13 (-0.2, -0.05) -0.06
Higher-Income Individuals	0.48 (0.43, 0.53)	0.43 (0.39, 0.46)	0.48 (0.44, 0.51)	0.47 (0.44, 0.5)	0.46 (0.42, 0.49)	0.45 (0.41, 0.49)	0.44 (0.39, 0.49)	0.42 (0.40, 0.44)	0.07 0.16 ^b	-0.06 (-0.11, -0.01) 0.37 ^b
Poultry, servings/d										
SNAP participants	0.36 (0.20, 0.52)	0.35 (0.25, 0.44)	0.33 (0.25, 0.40)	0.32 (0.25, 0.38)	0.35 (0.29, 0.41)	0.37 (0.31, 0.44)	0.34 (0.30, 0.38)	0.39 (0.34, 0.44)	0.46	0.03 (-0.14, 0.2) 0.05
Income-eligible nonparticipants	0.33 (0.26, 0.41)	0.34 (0.29, 0.39)	0.31 (0.25, 0.37)	0.42 (0.35, 0.50)	0.40 (0.35, 0.46)	0.41 (0.38, 0.45)	0.39 (0.36, 0.43)	0.38 (0.33, 0.44)	0.01	0.05 (-0.04, 0.14) 0.06
Higher-Income Individuals	0.37 (0.33, 0.42)	0.37 (0.34, 0.40)	0.40 (0.37, 0.44)	0.42 (0.39, 0.44)	0.45 (0.42, 0.49)	0.44 (0.40, 0.48)	0.40 (0.36, 0.44)	0.43 (0.40, 0.46)	0.005 0.81 ^b	0.06 (0, 0.12) 0.95 ^b
Fish and shellfish, servings/d										

SNAP participants	0.17 (0.07, 0.26)	0.10 (0.05, 0.15)	0.12 (0.08, 0.16)	0.11 (0.08, 0.15)	0.12 (0.09, 0.16)	0.14 (0.12, 0.17)	0.16 (0.11, 0.21)	0.14 (0.08, 0.2)	0.35	-0.02 (-0.13, 0.09)
Income-eligible nonparticipants	0.18 (0.1, 0.26)	0.11 (0.09, 0.13)	0.12 (0.09, 0.15)	0.13 (0.08, 0.18)	0.15 (0.11, 0.19)	0.17 (0.12, 0.22)	0.16 (0.11, 0.21)	0.13 (0.10, 0.15)	0.99	-0.05 (-0.13, 0.02)
Higher-Income Individuals	0.16 (0.13, 0.18)	0.16 (0.13, 0.19)	0.16 (0.13, 0.18)	0.19 (0.16, 0.22)	0.16 (0.14, 0.18)	0.19 (0.16, 0.22)	0.18 (0.14, 0.21)	0.19 (0.15, 0.23)	0.08 0.64 ^b	0.03 (-0.01, 0.08) 0.09 ^b
Eggs, servings/d										
SNAP participants	0.66 (0.46, 0.85)	0.42 (0.29, 0.54)	0.49 (0.41, 0.57)	0.48 (0.38, 0.57)	0.56 (0.49, 0.62)	0.52 (0.44, 0.61)	0.50 (0.42, 0.57)	0.43 (0.39, 0.48)	0.11	-0.23 (-0.43, -0.03)
Income-eligible nonparticipants	0.44 (0.37, 0.52)	0.47 (0.39, 0.55)	0.51 (0.41, 0.61)	0.50 (0.44, 0.56)	0.50 (0.46, 0.54)	0.51 (0.41, 0.61)	0.45 (0.37, 0.53)	0.50 (0.41, 0.59)	0.77	0.04 (-0.07, 0.16)
Higher-Income Individuals	0.43 (0.39, 0.47)	0.44 (0.41, 0.47)	0.47 (0.42, 0.51)	0.49 (0.46, 0.52)	0.50 (0.47, 0.53)	0.49 (0.45, 0.52)	0.51 (0.47, 0.55)	0.54 (0.49, 0.58)	<0.001 0.009 ^b	0.1 (0.05, 0.16) 0.03 ^b
Total dairy, servings/d										
SNAP participants	1.40 (1.03, 1.76)	1.26 (1.13, 1.39)	1.50 (1.33, 1.67)	1.54 (1.3, 1.77)	1.33 (1.24, 1.42)	1.63 (1.51, 1.76)	1.67 (1.55, 1.78)	1.49 (1.38, 1.59)	0.06	0.08 (-0.29, 0.44)
Income-eligible nonparticipants	1.35 (1.21, 1.49)	1.37 (1.18, 1.55)	1.40 (1.29, 1.50)	1.53 (1.39, 1.68)	1.47 (1.3, 1.65)	1.59 (1.48, 1.69)	1.55 (1.36, 1.74)	1.49 (1.35, 1.62)	0.02	0.14 (-0.05, 0.32)
Higher-Income Individuals	1.52 (1.43, 1.61)	1.50 (1.43, 1.57)	1.45 (1.38, 1.52)	1.53 (1.47, 1.59)	1.52 (1.45, 1.59)	1.63 (1.58, 1.69)	1.49 (1.45, 1.54)	1.48 (1.42, 1.53)	0.64 0.03 ^b	-0.04 (-0.15, 0.06) 0.24 ^b
Milk, servings/d										
SNAP participants	0.98 (0.73, 1.22)	0.77 (0.66, 0.87)	0.96 (0.79, 1.12)	0.93 (0.74, 1.12)	0.76 (0.70, 0.82)	0.95 (0.82, 1.08)	0.81 (0.68, 0.94)	0.67 (0.59, 0.76)	0.005	-0.3 (-0.55, -0.06)
Income-eligible nonparticipants	0.89 (0.74, 1.04)	0.88 (0.72, 1.04)	0.83 (0.70, 0.95)	0.93 (0.79, 1.08)	0.83 (0.73, 0.93)	0.85 (0.73, 0.96)	0.72 (0.61, 0.83)	0.61 (0.51, 0.71)	0.001	-0.28 (-0.46, -0.11)
Higher-Income Individuals	0.92 (0.84, 1.00)	0.92 (0.85, 0.98)	0.82 (0.77, 0.87)	0.86 (0.78, 0.93)	0.80 (0.74, 0.87)	0.82 (0.78, 0.86)	0.70 (0.65, 0.74)	0.63 (0.59, 0.66)	<0.001 0.77 ^b	-0.29 (-0.37, -0.2) 0.99 ^b
Cheese, servings/d										
SNAP participants	0.42 (0.24, 0.59)	0.48 (0.36, 0.59)	0.53 (0.46, 0.59)	0.58 (0.45, 0.7)	0.50 (0.43, 0.57)	0.63 (0.57, 0.7)	0.79 (0.7, 0.89)	0.71 (0.65, 0.77)	<0.001	0.29 (0.11, 0.47)
Income-eligible nonparticipants	0.42 (0.34, 0.51)	0.44 (0.36, 0.52)	0.53 (0.43, 0.63)	0.52 (0.47, 0.57)	0.54 (0.46, 0.62)	0.65 (0.60, 0.69)	0.74 (0.63, 0.85)	0.75 (0.66, 0.83)	<0.001	0.32 (0.2, 0.44)
Higher-Income Individuals	0.56 (0.52, 0.61)	0.54 (0.50, 0.57)	0.59 (0.55, 0.64)	0.60 (0.56, 0.64)	0.63 (0.59, 0.67)	0.70 (0.66, 0.74)	0.70 (0.67, 0.73)	0.72 (0.68, 0.76)	<0.001 0.001 ^b	0.16 (0.1, 0.22) 0.04 ^b
Yogurt, servings/d										
SNAP participants	0.02 (0.00, 0.03)	0.02 (0.01, 0.02)	0.03 (0.02, 0.05)	0.02 (0.01, 0.03)	0.03 (0.01, 0.04)	0.03 (0.02, 0.05)	0.04 (0.03, 0.05)	0.04 (0.02, 0.06)	0.005	0.02 (0, 0.05)
Income-eligible nonparticipants	0.03 (0.01, 0.05)	0.03 (0.01, 0.06)	0.02 (0.01, 0.03)	0.05 (0.03, 0.08)	0.04 (0.01, 0.07)	0.04 (0.03, 0.05)	0.06 (0.04, 0.07)	0.08 (0.05, 0.11)	0.0002	0.05 (0.02, 0.09)
Higher-Income Individuals	0.04 (0.02, 0.06)	0.06 (0.05, 0.07)	0.04 (0.03, 0.05)	0.05 (0.04, 0.06)	0.06 (0.05, 0.07)	0.07 (0.07, 0.08)	0.07 (0.06, 0.09)	0.08 (0.07, 0.09)	<0.001 0.30 ^p	0.04 (0.02, 0.06) 0.34 ^p
Sugar sweetened beverages, servings/d										
SNAP participants	2.24 (1.65, 2.84)	2.16 (1.58, 2.73)	2.06 (1.72, 2.41)	1.94 (1.55, 2.33)	2.39 (1.91, 2.86)	2.06 (1.88, 2.23)	1.68 (1.43, 1.93)	1.76 (1.43, 2.09)	0.04	-0.43 (-1.09, 0.24)
Income-eligible nonparticipants	2.17 (1.71, 2.63)	1.99 (1.71, 2.27)	1.97 (1.76, 2.17)	1.86 (1.6, 2.12)	1.72 (1.36, 2.09)	1.54 (1.34, 1.73)	1.52 (1.36, 1.69)	1.13 (0.93, 1.32)	<0.001	-1.06 (-1.54, -0.57)
Higher-Income Individuals	1.56 (1.41, 1.70)	1.48 (1.3, 1.66)	1.48 (1.32, 1.65)	1.29 (1.17, 1.42)	1.29 (1.14, 1.44)	1.12 (1.02, 1.22)	1.16 (0.98, 1.34)	0.88 (0.8, 0.97)	<0.001	-0.68 (-0.84, -0.52)

									0.11 ^b	0.18 ^b
Added sugars, tsp equivalents/d, servings/d										
SNAP	23.5	25.0	20.8	19.0	22.3	20.8	18.6	19.6		-3.7
participants	(20.5, 26.5)	(19.8, 30.2)	(18.7, 23.0)	(17.0, 21.0)	(19.5, 25.1)	(19.8, 21.8)	(17.1, 20.2)	(17.8, 21.3)	0.002	(-7.1, -0.4)
Income-eligible	24.2	21.1	20.7	19.7	20.3	17.8	17.6	16.1		-8.0
nonparticipants	(21.5, 26.9)	(19.3, 22.9)	(19.1, 22.3)	(17.8, 21.6)	(17.8, 22.7)	(16.5, 19.0)	(16.2, 19.0)	(14.8, 17.5)	<0.001	(-10.9, -5.2)
Higher-Income	19.6	18.7	16.9	16.1	16.4	15.5	15.7	14.1		-5.6
Individuals	(18.4, 20.8)	(17.5, 19.8)	(16.2, 17.6)	(15.4, 16.8)	(15.5, 17.4)	(15.0, 16.1)	(14.9, 16.6)	(13.7, 14.5)	<0.001	(-6.8, -4.3)
									0.12 ^b	0.08 ^b
Total fat, % of energy										
SNAP	32.2	32.8	33.7	34.0	33.5	32.5	33.3	33.6		1.5
participants	(30.6, 33.7)	(30.9, 34.7)	(32.6, 34.9)	(33.0, 35.0)	(32.3, 34.6)	(31.9, 33.0)	(32.6, 33.9)	(32.9, 34.2)	0.31	(-0.2, 3.2)
Income-eligible	32.3	33.4	34.2	32.9	32.6	32.2	33.2	34.1		1.9
nonparticipants	(31.2, 33.4)	(32.5, 34.4)	(33.5, 34.9)	(32.4, 33.5)	(31.5, 33.8)	(31.5, 32.9)	(32.3, 34.0)	(33.7, 34.6)	0.24	(0.7, 3.1)
Higher-Income	33.4	33.6	34.3	34.1	34.3	33.6	33.9	35.1		1.7
Individuals	(32.5, 34.2)	(33.2, 34.1)	(33.6, 35.0)	(33.6, 34.5)	(33.9, 34.6)	(33.1, 34.1)	(33.3, 34.6)	(34.7, 35.5)	0.006	(0.8, 2.6)
									0.65 ^b	0.91 ^b
Saturated fat, % of energy										
SNAP	11.2	10.8	11.5	11.9	11.1		11.3	11.2		0.1
participants	(10.5, 11.8)	(10.1, 11.6)	(10.9, 12.0)	(11.3, 12.5)	(10.7, 11.5)	11.0 (10.8, 11.2)	(11.0, 11.6)	(10.8, 11.5)	0.94	(-0.7, 0.8)
Income-eligible	10.5	10.6	11.4	11.0	10.8	10.6	10.9	11.4		0.8
nonparticipants	(10.1, 11.0)	(10.3, 11.0)	(10.9, 11.8)	(10.8, 11.2)	(10.2, 11.3)	(10.3, 11.0)	(10.6, 11.3)	(11.1, 11.6)	0.04	(0.3, 1.4)
Higher-Income	11.2	10.6	11.3	11.3	11.3	10.9	10.8	11.2		0.1
Individuals	(10.9, 11.5)	(10.4, 10.8)	(11.0, 11.5)	(11.2, 11.5)	(11.1, 11.5)	(10.7, 11.07)	(10.6, 11.1)	(11.1, 11.4)	0.72	(-0.3, 0.4)
									0.24 ^b	0.09 ^b
Monounsaturated fat, % of energy										
SNAP	18.7	16.1	14.0	14.8	15.6	13.1	13.4	13.5		-5.2
participants	(8.5, 28.9)	(12.4, 19.8)	(13.2, 14.9)	(13.4, 16.1)	(14.8, 16.5)	(12.7, 13.5)	(12.4, 14.4)	(12.9, 14.1)	0.08	(-15.0, 4.5)
Income-eligible	15.47	15.5	15.0	13.8	14.7	13.7	12.8	13.5		-2.1
nonparticipants	(14.4, 16.6)	(14.7, 16.2)	(14.2, 15.9)	(12.6, 14.9)	(13.5, 16.0)	(12.9, 14.6)	(12.1, 13.4)	(12.8, 14.2)	<0.001	(-3.4, -0.8)
Higher-Income	14.2	13.4	13.6	13.6	13.8	13.0	13.0	13.5	0.01	-0.8
Individuals	(13.5, 15.0)	(13.0, 13.8)	(13.1, 14.0)	(13.2, 14.0)	(13.4, 14.2)	(12.7, 13.4)	(12.4, 13.5)	(13.2, 13.8)	0.001 ^b	(-1.6, 0.1)
										0.16 ^b
Polyunsaturated fat, % of energy										
SNAP	6.0	6.4	6.8	6.7	6.9	6.8	7.6	7.7		1.6
participants	(5.7, 6.4)	(6.0, 6.9)	(6.4, 7.1)	(6.2, 7.2)	(6.6, 7.2)	(6.5, 7.1)	(7.4, 7.8)	(7.4, 7.9)	<0.001	(1.2, 2.1)
Income-eligible	7.0	6.9	7.1	6.9	7.0	7.1	7.9	7.7		0.7
nonparticipants	(6.7, 7.3)	(6.6, 7.2)	(6.7, 7.6)	(6.7, 7.2)	(6.7, 7.2)	(6.9, 7.3)	(7.5, 8.2)	(7.5, 8.0)	<0.001	(0.4, 1.1)
Higher-Income	7.1	6.9	7.3	7.3	7.4	7.6	8.2	8.3		1.2
Individuals	(6.9, 7.2)	(6.8, 7.0)	(7.2, 7.5)	(7.1, 7.5)	(7.3, 7.5)	(7.4, 7.7)	(8.0, 8.4)	(8.1, 8.4)	<0.001	(1.0, 1.5)
									0.008 ^b	0.02 ^b
Seafood omega-3 fat, mg/d										
SNAP	141	95	95	116	89	94	94	88	0.16	-54
participants	(72, 209)	(61, 129)	(72, 117)	(67, 165)	(66, 112)	(76, 112)	(72, 116)	(51, 125)		(-129, 21)
Income-eligible	130	94	98	89	127	115	113	69		-59
nonparticipants	(80, 179)	(76, 111)	(77, 119)	(69, 109)	(90, 164)	(91, 139)	(81, 144)	(55, 83)	0.24	(-105, -12)
Higher-Income	124	130	139	163	156	125	113	116		-7
Individuals	(110, 137)	(114, 147)	(116, 162)	(134, 191)	(140, 173)	(107, 142)	(94, 132)	(102, 130)	0.08	(-27, 12)
									0.87 ^b	0.08 ^b
Plant omega-3 fat, mg/d										
SNAP	118	129	128	127	131	134	156	147		28
participants	(106, 131)	(119, 139)	(124, 133)	(118, 135)	(125, 137)	(127, 141)	(152, 159)	(142, 152)	<0.001	(15, 42)
Income-eligible	127	133	144	135	135	140	164	149		22
nonparticipants	(119, 135)	(124, 142)	(134, 154)	(130, 139)	(128, 142)	(135, 145)	(155, 172)	(144, 155)	<0.001	(13, 32)

Higher-Income Individuals	140 (134, 146)	139 (136, 141)	145 (141, 149)	144 (139, 149)	144 (140, 147)	152 (149, 155)	168 (164, 173)	165 (160, 169)	<0.001 0.62 ^b	24 (17, 32) 0.79 ^b
Polyunsaturated: saturated fat ratio										
SNAP participants	0.61 (0.56, 0.66)	0.69 (0.64, 0.73)	0.64 (0.61, 0.68)	0.62 (0.55, 0.68)	0.67 (0.64, 0.7)	0.67 (0.63, 0.71)	0.73 (0.71, 0.75)	0.75 (0.71, 0.79)	<0.001 0.15	0.13 (0.07, 0.2) 0.01
Income-eligible nonparticipants	0.73 (0.69, 0.78)	0.74 (0.69, 0.79)	0.69 (0.64, 0.74)	0.68 (0.65, 0.72)	0.73 (0.65, 0.81)	0.73 (0.69, 0.76)	0.77 (0.74, 0.8)	0.73 (0.7, 0.76)		0.01 (-0.05, 0.06)
Higher-Income Individuals	0.71 (0.69, 0.74)	0.73 (0.71, 0.75)	0.70 (0.69, 0.72)	0.70 (0.69, 0.72)	0.71 (0.70, 0.73)	0.76 (0.74, 0.78)	0.82 (0.79, 0.84)	0.80 (0.78, 0.81)	<0.001 0.006 ^b	0.08 (0.05, 0.11) 0.01 ^b
Protein, % of energy										
SNAP participants	15.5 (14.7, 16.3)	14.5 (13.7, 15.3)	14.9 (14.3, 15.5)	15.7 (14.9, 16.5)	15.3 (14.9, 15.8)	15.3 (15.0, 15.6)	15.3 (14.8, 15.9)	15.5 (14.9, 16.1)	0.21	-0.03 (-1.0, 0.9) 0.9
Income-eligible nonparticipants	14.8 (14.3, 15.3)	15.0 (14.4, 15.5)	14.7 (14.2, 15.3)	15.7 (14.8, 16.6)	15.5 (15.0, 15.9)	15.9 (15.4, 16.3)	15.6 (15.2, 16.0)	15.7 (15.1, 16.4)	<0.001	0.1 (0.1, 1.7)
Higher-Income Individuals	15.5 (15.2, 15.8)	15.3 (15.0, 15.6)	15.8 (15.6, 16.0)	16.1 (15.9, 16.4)	16.0 (15.8, 16.2)	16.1 (15.8, 16.4)	15.7 (15.4, 16.0)	16.4 (16.1, 16.7)	<0.001 0.47 ^b	0.9 (0.5, 1.3) 0.14 ^b
Carbohydrate, % of energy										
SNAP participants	50.4 (48.9, 51.9)	52.4 (50.1, 54.7)	50.1 (49.1, 51.1)	48.3 (45.9, 50.6)	50.2 (48.6, 51.8)	50.91 (50.1, 51.7)	49.8 (48.7, 51.0)	49.5 (48.5, 50.5)	0.11	-0.9 (-2.6, 0.8)
Income-eligible nonparticipants	52.5 (51.4, 53.7)	51.0 (49.8, 52.3)	50.1 (49.3, 51.0)	50.3 (49.2, 51.4)	50.2 (49.1, 51.2)	49.8 (49.1, 50.5)	50.4 (49.4, 51.4)	48.5 (47.6, 49.4)	<0.001	-4.0 (-5.5, -2.6)
Higher-Income Individuals	49.9 (49.1, 50.8)	50.2 (49.4, 51.0)	48.5 (47.7, 49.2)	48.3 (47.7, 49.0)	48.4 (47.9, 48.9)	48.5 (48.0, 49.0)	48.2 (47.4, 49.0)	46.5 (46.1, 47.0)	<0.001 0.17 ^b	-3.4 (-4.4, -2.5) 0.02 ^b
Cholesterol, mg/d										
SNAP participants	332 (292, 371)	259 (226, 291)	278 (263, 292)	288 (258, 318)	303 (290, 315)	273 (262, 284)	276 (259, 292)	259 (247, 272)	0.005	-73 (-113, -32)
Income-eligible nonparticipants	269 (247, 292)	274 (254, 294)	277 (254, 300)	278 (258, 298)	278 (269, 287)	281 (254, 309)	263 (246, 280)	263 (239, 288)	0.40	-9.46 (-42.38, 23.46)
Higher-Income Individuals	271 (259, 283)	259 (250, 268)	277 (267, 287)	277 (269, 285)	281 (271, 291)	264 (257, 271)	270 (258, 282)	276 (268, 285)	0.37 0.02 ^b	5.79 (-8.45, 20.03) 0.014 ^b
Fiber, g/d										
SNAP participants	13.1 (11.4, 14.9)	14.2 (13.0, 15.5)	13.3 (12.5, 14.0)	13.7 (12.8, 14.5)	14.0 (13.1, 14.9)	14.8 (14.3, 15.4)	16.1 (14.9, 17.3)	13.7 (12.8, 14.6)	0.03	0.5 (-1.5, 2.5)
Income-eligible nonparticipants	14.8 (13.8, 15.7)	14.6 (13.6, 15.7)	14.3 (13.7, 14.8)	15.4 (14.6, 16.2)	14.9 (13.5, 16.4)	16.0 (15.4, 16.6)	17.27 (16.4, 18.2)	14.99 (14.0, 16.0)	0.004	0.1 (-1.3, 1.5)
Higher-Income Individuals	15.6 (14.8, 16.3)	15.7 (15.3, 16.2)	15.4 (14.9, 15.9)	16.0 (15.6, 16.5)	16.5 (15.8, 17.1)	17.5 (17.0, 17.9)	17.7 (17.1, 18.4)	16.6 (16.2, 17.0)	<0.001 0.63 ^b	1.1 (0.2, 1.9) 0.55 ^b
Sodium, mg/d										
SNAP participants	3434 (3135, 3732)	3371 (3128, 3613)	3332 (3236, 3428)	3359 (3178, 3540)	3436 (3342, 3529)	3396 (3336, 3457)	3382 (3259, 3504)	3166 (3084, 3249)	0.07	-273 (-571, 24)
Income-eligible nonparticipants	3237 (3096, 3378)	3356 (3232, 3480)	3415 (3298, 3532)	3410 (3264, 3556)	3356 (3238, 3474)	3438 (3318, 3558)	3502 (3410, 3594)	3187 (3083, 3291)	0.63	-53 (-223, 117)
Higher-Income Individuals	3432 (3363, 3501)	3338 (3301, 3376)	3458 (3414, 3503)	3566 (3502, 3629)	3516 (3466, 3566)	3456 (3414, 3498)	3383 (3337, 3428)	3296 (3247, 3345)	0.05 0.25 ^b	-132 (-216, -49) 0.56 ^b
Potassium, mg/d										
SNAP participants	2538 (2361, 2716)	2393 (2240, 2547)	2496 (2414, 2579)	2658 (2550, 2766)	2473 (2388, 2557)	2548 (2488, 2608)	2541 (2470, 2613)	2292 (2225, 2358)	0.02	-253 (-440, -66)

Income-eligible nonparticipants	2567 (2479, 2655)	2429 (2349, 2509)	2502 (2421, 2584)	2623 (2538, 2708)	2521 (2410, 2632)	2639 (2561, 2716)	2630 (2556, 2704)	2364 (2270, 2458)	0.75	-208 (-338, -78)
Higher-Income Individuals	2742 (2670, 2814)	2678 (2618, 2738)	2644 (2607, 2681)	2691 (2634, 2748)	2656 (2601, 2711)	2768 (2730, 2806)	2731 (2667, 2795)	2551 (2505, 2597)	0.08 0.24 ^b	-189 (-274, -104) 0.81 ^b
Magnesium, mg/d										
SNAP participants	243 (227, 260)	232 (217, 247)	240 (229, 251)	278 (266, 289)	258 (248, 269)	275 (267, 283)	280 (269, 291)	253 (241, 266)	0.0005	8 (-12, 28)
Income-eligible nonparticipants	258 (246, 271)	251 (239, 263)	250 (241, 259)	280 (271, 290)	283 (261, 305)	292 (285, 300)	284 (275, 293)	271 (259, 283)	<0.001	12 (-5, 30)
Higher-Income Individuals	273.57 (264.29, 282.85)	271 (263, 278)	270 (264, 275)	297 (291, 303)	294 (286, 302)	307 (302, 312)	305 (297, 314)	291 (286, 297)	<0.001 0.71 ^b	18 (8, 29) 0.55 ^b
Calcium, mg/d										
SNAP participants	737 (636, 838)	718 (678, 758)	798 (747, 849)	895 (818, 972)	816 (775, 858)	954 (924, 983)	990 (940, 1039)	871 (838, 904)	<0.001	126 (25, 228)
Income-eligible nonparticipants	733 (695, 772)	758 (693, 823)	790 (749, 831)	888 (843, 933)	905 (837, 973)	949 (914, 984)	981 (906, 1057)	894 (852, 937)	<0.001	161 (104, 218)
Higher-Income Individuals	809 (775, 844)	830 (806, 853)	841 (818, 864)	920 (898, 941)	927 (901, 954)	1003 (984, 1023)	940 (916, 964)	917 (890, 935)	<0.001 0.03 ^b	109 (71, 148) 0.33 ^b

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

^a. Survey-weighted mean scores were adjusted for age, sex, and race/ethnicity

^b. Survey-weighted P for interaction that assessed whether the trend in mean take or change in mean intake differed by SNAP participation status

eTable 7. Crude and Adjusted Trends in the American Heart Association (AHA) 2020 Diet Score by SNAP Participation Status, 2003-2014^a

	Survey-Weighted Mean Score (95% CI) ^a						P for Trend	Mean Change From 2003-2004 to 2013-2014 (95% CI)
	2003-2004 (n=4066)	2005-2006 (n=4030)	2007-2008 (n=4654)	2009-2010 (n=4996)	2011-2012 (n=4288)	2013-2014 (n=4437)		
Total AHA diet score (unadjusted)								
SNAP participants	31.5 (29.2, 33.8)	30.8 (28.6, 32.9)	31.1 (29.5, 32.8)	32.8 (31.2, 34.5)	33.8 (32.7, 34.8)	32.1 (30.6, 33.6)	0.11	0.57 (-2.18, 0.33)
Lower-income SNAP participants	30.6 (28.4,32.8)	30.4(27.6,33.3)	30.9(28.7,33.2)	32.5(31.3,33.7)	32.9(31.1,34.8)	31.7(30,33.4)	0.14	1.10 (-1.68, 3.88)
Higher-income SNAP participants	33.8 (30.6, 37.0)	31.3(28.9,33.7)	30.9(28.2,33.6)	33.8(29.7,37.9)	35.1(33.5,36.7)	32.2(29.8,34.6)	0.54	-1.56 (-5.51, 2.39)
Income-eligible nonparticipants	34.2 (32.6, 35.9)	34.7 (33.1, 36.3)	34.9 (32.7, 37.1)	36.3 (34.8, 37.9)	36.5 (35.2, 37.7)	36.8 (35.3, 38.3)	0.004	2.56 (0.36, 4.76)
Higher-income individuals	35.8 (34.6, 36.9)	36.4 (35.3, 37.4)	36.7 (35.5, 37.8)	38.7 (37.9, 39.4)	40.0 (38.5, 41.5)	39.6 (38.7, 40.5)	<0.001	3.84 (2.39, 5.29)
						P-interaction	0.02 ^b	0.04 ^c
Total AHA diet score (adjusted for change in age, sex, and race/ethnicity)								
SNAP participants	32.5 (30.4, 34.6)	31.9 (29.8, 34.1)	31.9 (30.4, 33.3)	33.3 (31.8, 34.8)	34.4 (33.4, 35.5)	32.5 (30.9, 34.1)	0.21	0.01 (-2.17, 2.20)
Lower-income SNAP participants	31.4(29.5,33.4)	31.4(28.6,34.3)	31.4(29.5,33.3)	32.5(31.4,33.5)	33.2(31.3,35.2)	31.8(30.1,33.5)	0.36	0.32 (-1.95, 2.58)
Higher-income SNAP participants	35.0(31.8,38.1)	32.3(29.9,34.7)	32.1(29.0,35.3)	35.0(30.9,39.1)	36.0(34.4,37.6)	33.0(30.5,35.5)	0.33	-1.00 (-4.60, 2.60)
Income-eligible nonparticipants	34.4 (32.8, 35.9)	34.4 (32.9, 36.0)	34.6 (32.2, 37.1)	36.3 (34.7, 38.0)	36.4 (35.0, 37.7)	36.7 (35.2, 38.3)	0.008	2.16 (0.01, 4.30)
Higher-income individuals	35.9 (34.8, 37.1)	36.5 (35.4, 37.5)	36.7 (35.5, 37.8)	38.5 (37.8, 39.2)	39.7 (38.1, 41.2)	39.2 (38.3, 40.2)	<0.001	3.33 (1.86, 4.80)
						P-interaction	0.01 ^b	0.02 ^c
Total AHA diet score (adjusted for change in age, sex, race/ethnicity, and education)								
SNAP participants	34.2 (32.2,36.1)	33.4(31.2,35.5)	33.7(32.3,35.1)	35(33.6,36.4)	35.8(34.7,36.8)	33.9(32.4,35.4)	0.35	-0.25 (-2.36, 1.89)
Lower-income SNAP participants	31.9(30.0,33.8)	31.8(29.0,34.7)	32.0(30.2,33.8)	32.9(31.9,33.9)	33.5(31.7,35.4)	32.0(30.4,33.7)	0.48	0.13 (-2.13,2.40)
Higher-income SNAP participants	36.7(33.7,39.8)	33.6(35.7,37.9)	33.8(30.9,36.7)	36.9(33.0,40.8)	37.1(35.5,38.8)	34.3(31.9,36.7)	0.55	-1.56 (-5.04,1.93)
Income-eligible nonparticipants	35.8 (34.3,37.3)	35.6(34.1,37.1)	35.9(33.8,38)	37.1(35.7,38.6)	37.3(36.2,38.4)	37.4(35.9,39)	0.04	1.51 (-0.54, 3.57)
Higher-income individuals	35.9 (34.9,36.8)	36.3(35.3,37.3)	36.5(35.5,37.4)	38.1(37.4,38.7)	38.8(37.3,40.2)	38.3(37.4,39.2)	<0.001	2.48 (1.23, 3.72)
						P-interaction	0.06 ^b	0.048 ^c
Total AHA diet score (adjusted for change in age, sex, race/ethnicity, and income)								
SNAP participants	34.8 (32.8, 36.9)	33.9 (31.7,36.1)	34.2(32.6,35.9)	35.7 (34.3,37.0)	36.6(35.4,37.7)	34.5(33,36)	0.27	-0.16 (-2.33, 2.01)
Income-eligible nonparticipants	37.0 (35.4, 38.6)	37.1 (35.5,38.7)	37.3(34.9,39.6)	39.0 (37.3,40.7)	39.1(37.6,40.6)	39.3(37.6,40.9)	<0.01	2.18 (0.04, 4.32)
Higher-income individuals	35.1 (34.0, 36.2)	35.6 (34.5,36.7)	35.8(34.5,37.1)	37.6(36.9,38.3)	38.9(37.3,40.5)	38.3(37.4,39.2)	<0.001	3.17 (1.78, 4.56)
						P-interaction	0.04 ^b	0.01 ^c

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

^a. The total AHA diet score is the sum of the scores for 8 primary dietary components (fruits/vegetables, whole grains, fish/shellfish, sugar-sweetened beverages, and sodium, nuts/seeds/legumes, processed meat, and saturated fat).

^b. P for interaction assessing potential heterogeneous trends in total AHA diet score by SNAP participation status (SNAP participants, income-eligible nonparticipants, and higher-income individuals)

^c. P for interaction assessing potential heterogeneous change in total AHA diet score from 2003-2004 to 2013-2014 by SNAP participation status (SNAP participants, income-eligible nonparticipants, and higher-income individuals)

eTable 8. Mean Change in Dietary Components of the American Heart Association (AHA) 2020 Strategic Impact Goals among SNAP Participants from 1999-2002 to 2011-2014, by Age

Dietary Intake	Survey-Weighted Mean Intake or Change (95% CI)											P for Interaction	
	Age 20-34		Mean Change (95% CI)	Age 35-49		Mean Change (95% CI)	Age 50-64		Mean Change (95% CI)	Age ≥65			
	1999-2002 (n=328)	2011-2014 (n=768)		1999-2002 (n=204)	2011-2014 (n=578)		1999-2002 (n=161)	2011-2014 (n=575)		1999-2002 (n=147)	2011-2014 (n=322)		
Fruits and vegetables, servings/d	1.08 (0.85, 1.31)	1.19 (1.06, 1.33)	0.11 (-0.15, 0.38)	1.31 (0.97, 1.65)	1.27 (1.11, 1.43)	-0.04 (-0.41,0.33)	1.52 (1.28,1.76)	1.70 (1.4,2.0)	0.18 (-0.2,0.55)	2.00 (1.53, 2.47)	2.02 (1.73, 2.31)	0.02 (-0.52, 0.56)	0.91
Whole grains, servings/d	0.32 (0.21, 0.44)	0.66 (0.56, 0.77)	0.34*** (0.19, 0.49)	0.34 (0.21, 0.47)	0.60 (0.50, 0.70)	0.26** (0.10,0.42)	0.68 (0.43,0.92)	0.80 (0.69,0.91)	0.12 (-0.14,0.38)	0.59 (0.32, 0.87)	1.06 (0.89, 1.24)	0.47** (0.15, 0.79)	0.79
Fish and shellfish, servings/d	0.10 (0.04, 0.16)	0.14 (0.09, 0.18)	0.03 (-0.04, 0.11)	0.14 (0.04, 0.24)	0.24 (0.17, 0.31)	0.10 (-0.01,0.21)	0.10 (0.05,0.16)	0.17 (0.12,0.21)	0.06 (-0.01,0.13)	0.14 (0.05, 0.22)	0.19 (0.10, 0.28)	0.06 (-0.07, 0.18)	0.67
Sugar-sweetened beverages, servings/d	3.04 (2.40, 3.67)	2.29 (1.99, 2.59)	-0.75* (-1.43, -0.06)	2.38 (1.78, 2.98)	1.97 (1.70, 2.24)	-0.41 (-1.05,0.24)	1.86 (1.52,2.19)	1.41 (1.11,1.71)	-0.44* (-0.89,0)	0.94 (0.67, 1.21)	0.69 (0.48, 0.90)	-0.25 (-0.58, 0.08)	0.27
Sodium, mg/d	3138 (2945, 3332)	3125 (3045, 3205)	-13 (-219, 192)	3386 (2989, 3782)	3247 (3118, 3377)	-138 (-547,271)	3504 (3200,3809)	3293 (3186,3401)	-211 (-528,105)	3806 (3498, 4114)	3529 (3365, 3692)	-277 (-618, 64)	0.10
Nuts, seeds, and legumes, servings/d	0.23 (0.15, 0.31)	0.40 (0.32, 0.49)	0.17** (0.05, 0.29)	0.27 (0.17, 0.37)	0.38 (0.27, 0.48)	0.10 (-0.03,0.24)	0.34 (0.17,0.51)	0.46 (0.31, 0.61)	0.12 (-0.1, 0.35)	0.88 (-0.4, 2.17)	0.52 (0.4, 0.65)	-0.36 (-1.63, 0.9)	0.39
Processed meat, servings/d	0.26 (0.19, 0.32)	0.29 (0.27, 0.32)	0.03 (-0.03, 0.10)	0.34 (0.20, 0.47)	0.30 (0.25, 0.36)	-0.03 (-0.17, 0.11)	0.16 (0.10, 0.22)	0.33 (0.23, 0.42)	0.16** (0.06, 0.27)	0.21 (0.12, 0.31)	0.27 (0.2, 0.33)	0.06 (-0.06, 0.17)	0.19
Saturated fat, % of energy	11.0 (10.5, 11.5)	10.9 (10.6, 11.3)	-0.04 (-0.7, 0.6)	10.7 (9.9, 11.6)	10.8 (10.4, 11.1)	0.02 (-0.9, 0.9)	10.3 (9.5, 11.1)	10.8 (10.3, 11.2)	0.47 (-0.5, 1.4)	10.0 (9.0, 10.9)	10.9 (10.3, 11.4)	0.9 (-0.2, 2.0)	0.08

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

a. The mean change from 1999-2002 to 2011-2014 was statistically significant (*p<0.05; ** p<0.01; *** p<0.001)

eTable 9. Mean Change in Dietary Components of the American Heart Association (AHA) 2020 Strategic Impact Goals among SNAP Participants from 1999-2002 to 2011-2014, by Gender

Dietary Intake	Survey-Weighted Mean Intake or Change (95% CI)						P for Interaction
	Male		Mean Change (95% CI)	Female		Mean Change (95% CI)	
	1999-2002 (n=313)	2011-2014 (n=1011)		1999-2002 (n=527)	2011-2014 (n=1232)		
Fruits and vegetables, servings/d	1.32 (1.09, 1.55)	1.21 (1.09, 1.33)	-0.11 (-0.36, 0.14)	1.32 (1.15, 1.50)	1.61 (1.41, 1.80)	0.28* (0.03, 0.54)	0.01
Whole grains, servings/d	0.44 (0.31, 0.57)	0.66 (0.57, 0.74)	0.22** (0.06, 0.37)	0.41 (0.29, 0.53)	0.78 (0.69, 0.86)	0.37*** (0.22, 0.51)	0.14
Fish and shellfish, servings/d	0.13 (0.06, 0.20)	0.19 (0.14, 0.23)	0.06 (-0.03, 0.14)	0.11 (0.06, 0.16)	0.17 (0.13, 0.21)	0.06 (-0.01, 0.13)	0.92
Sugar-sweetened beverages, servings/d	2.33 (1.98, 2.69)	1.96 (1.74, 2.19)	-0.37 (-0.78, 0.04)	2.47 (2.14, 2.80)	1.71 (1.48, 1.93)	-0.76*** (-1.15, -0.37)	0.06
Sodium, mg/d	3341 (3176, 3506)	3139 (3057, 3222)	-202* (-383, -21)	3346 (3146, 3546)	3325 (3251, 3398)	-22 (-230, 187)	
Nuts, seeds, and legumes, servings/d	0.28 (0.20, 0.35)	0.42 (0.32, 0.51)	0.14* (0.02, 0.26)	0.37 (0.12, 0.62)	0.43 (0.33, 0.52)	0.06 (-0.21, 0.32)	0.20
Processed meat, servings/d	0.32 (0.24, 0.41)	0.38 (0.31, 0.44)	0.05 (-0.05, 0.16)	0.22 (0.17, 0.26)	0.24 (0.21, 0.27)	0.02 (-0.03, 0.07)	0.55
Saturated fat, % of energy	10.7 (10.3, 11.2)	10.7 (10.5, 11.0)	-0.01 (-0.5, 0.5)	10.6 (10.1, 11.1)	10.9 (10.6, 11.2)	0.3 (-0.3, 0.9)	0.56

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

a. The mean change from 1999-2002 to 2011-2014 was statistically significant (*p<0.05; ** p<0.01; *** p<0.001)

eTable 10. Mean Change in Dietary Components of the American Heart Association (AHA) 2020 Strategic Impact Goals among SNAP Participants from 1999-2002 to 2011-2014, by Race/Ethnicity

Dietary Intake	Survey-Weighted Mean Intake or Change (95% CI)									P for Interaction
	Non-Hispanic White		Mean Change (95% CI)	Non-Hispanic Black		Mean Change (95% CI)	Hispanic		Mean Change (95% CI)	
	1999-2002 (n=233)	2011-2014 (n=773)		1999-2002 (n=300)	2011-2014 (n=784)		1999-2002 (n=276)	2011-2014 (n=512)		
Fruits and vegetables, servings/d	1.39 (1.06, 1.71)	1.40 (1.18, 1.62)	0.02 (-0.37, 0.40)	1.18 (1.00, 1.36)	1.23 (1.08, 1.38)	0.05 (-0.18, 0.28)	1.34 (1.14, 1.54)	1.65 (1.50, 1.80)	0.31* (0.07, 0.56)	0.25
Whole grains, servings/d	0.49 (0.31, 0.68)	0.72 (0.61, 0.84)	0.23* (0.02, 0.44)	0.35 (0.23, 0.47)	0.70 (0.59, 0.81)	0.35*** (0.19, 0.51)	0.37 (0.20, 0.54)	0.66 (0.51, 0.81)	0.29* (0.06, 0.51)	0.64
Fish and shellfish, servings/d	0.06 (0.02, 0.11)	0.12 (0.07, 0.16)	0.06 (-0.01, 0.12)	0.29 (0.19, 0.38)	0.26 (0.18, 0.34)	-0.03 (-0.15, 0.09)	0.06 (0.02, 0.10)	0.18 (0.13, 0.24)	0.12*** (0.06, 0.19)	0.09
Sugar-sweetened beverages, servings/d	2.39 (1.75, 3.03)	2.01 (1.70, 2.32)	-0.38 (-1.07, 0.31)	2.53 (2.25, 2.80)	1.77 (1.62, 1.92)	-0.76*** (-1.07, -0.45)	2.11 (1.41, 2.81)	1.45 (1.23, 1.67)	-0.66 (-1.38, 0.06)	0.64
Sodium, mg/d	3433 (3111, 3755)	3237 (3134, 3340)	-196 (-527, 135)	3285 (3146, 3424)	3271 (3167, 3375)	-14 (-183, 156)	3173 (3036, 3311)	3194 (3074, 3315)	21 (-158, 200)	0.59
Nuts, seeds, and legumes, servings/d	0.28 (0.17, 0.38)	0.43 (0.31, 0.55)	0.16* (0, 0.31)	0.48 (-0.16, 1.13)	0.36 (0.29, 0.42)	-0.13 (-0.76, 0.5)	0.35 (0.18, 0.51)	0.40 (0.29, 0.51)	0.05 (-0.14, 0.25)	0.55
Processed meat, servings/d	0.27 (0.18, 0.36)	0.34 (0.27, 0.42)	0.07 (-0.04, 0.19)	0.32 (0.27, 0.37)	0.31 (0.28, 0.33)	-0.01 (-0.06, 0.04)	0.18 (0.13, 0.23)	0.21 (0.18, 0.25)	0.03 (-0.03, 0.09)	0.26
Saturated fat, % of energy	11.2 (10.5, 11.9)	11.4 (11.1, 11.8)	0.2 (-0.5, 1.0)	10.1 (9.6, 10.5)	10.7 (10.3, 11.1)	0.6* (0.1, 1.2)	10.3 (9.4, 11.2)	10.1 (9.6, 10.6)	-0.2 (-1.2, 0.8)	0.29

Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

a. The mean change from 1999-2002 to 2011-2014 was statistically significant (*p<0.05; ** p<0.01; *** p<0.001)

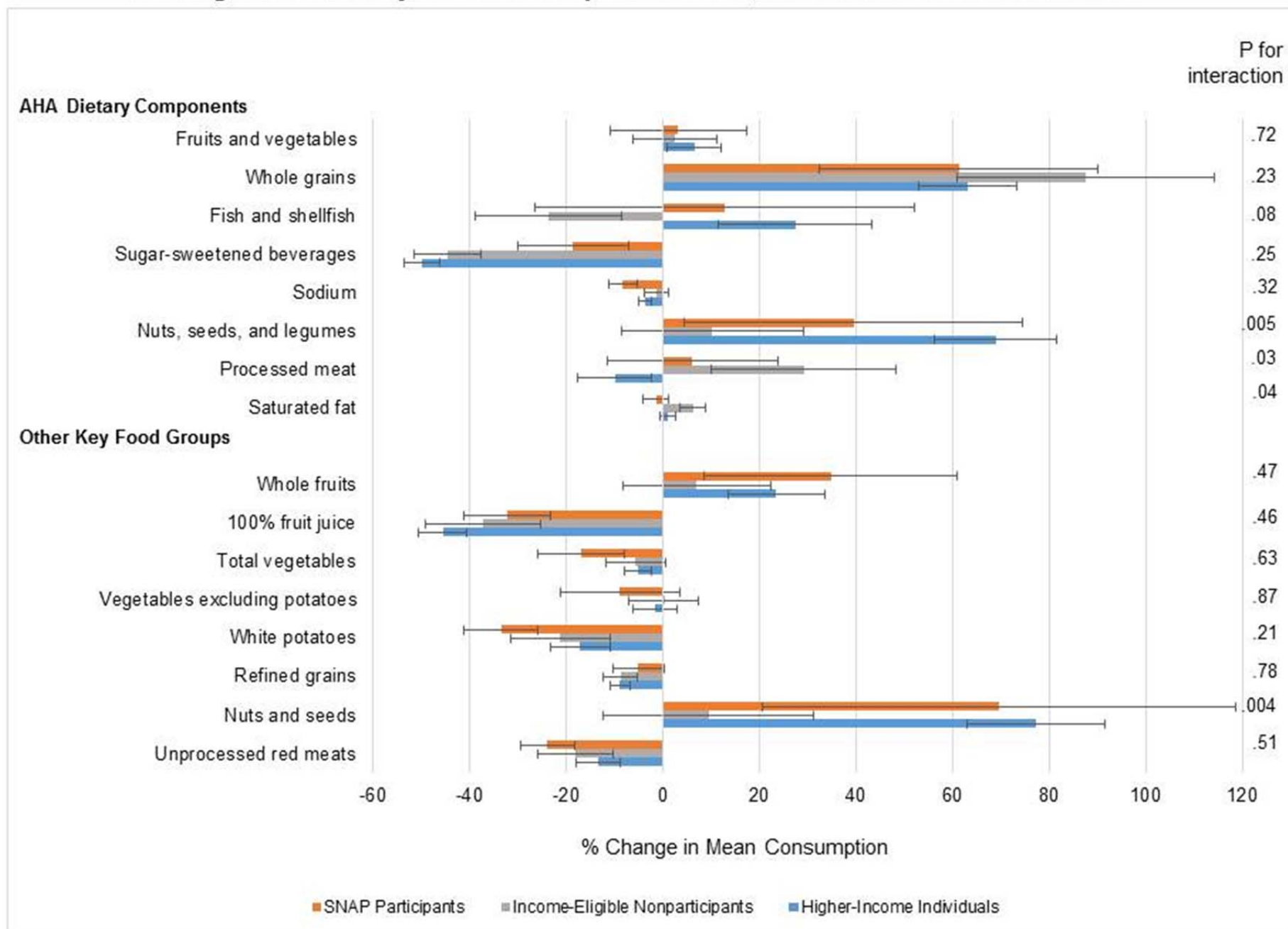
eTable 11. Mean Change in Dietary Components of the American Heart Association (AHA) 2020 Strategic Impact Goals among SNAP Participants from 1999-2002 to 2011-2014, by Education

Dietary Intake	Survey-Weighted Mean Intake or Change (95% CI)								P for Interaction	
	< High School		Mean Change (95% CI)	High School Graduate or Equivalent		Mean Change (95% CI)	Some College or Above			Mean Change (95% CI)
	1999-2002 (n=485)	2011-2014 (n=790)		1999-2002 (n=184)	2011-2014 (n=638)		1999-2002 (n=168)	2011-2014 (n=813)		
Fruits and vegetables, servings/d	1.35 (1.15, 1.55)	1.29 (1.15, 1.42)	-0.06 (-0.31,0.18)	1.28 (1.01, 1.56)	1.28 (1.11, 1.45)	0 (-0.32,0.32)	1.30 (1.05, 1.54)	1.63 (1.39, 1.87)	0.34* (0,0.67)	0.06
Whole grains, servings/d	0.34 (0.22, 0.47)	0.63 (0.5, 0.76)	0.29** (0.11,0.47)	0.38 (0.24, 0.52)	0.72 (0.63, 0.82)	0.34*** (0.18,0.51)	0.60 (0.39, 0.81)	0.79 (0.69, 0.89)	0.19 (-0.04,0.42)	0.55
Fish and shellfish, servings/d	0.14 (0.07, 0.21)	0.19 (0.14, 0.25)	0.05 (-0.03,0.14)	0.06 (0.02, 0.10)	0.15 (0.10, 0.20)	0.09** (0.03,0.15)	0.14 (0.06, 0.22)	0.19 (0.14, 0.23)	0.05 (-0.04,0.14)	0.87
Sugar-sweetened beverages, servings/d	2.19 (1.94, 2.44)	1.84 (1.54, 2.14)	-0.35 (-0.73,0.03)	2.72 (1.80, 3.63)	2.03 (1.82, 2.25)	-0.68 (-1.6,0.24)	2.57 (1.92, 3.22)	1.66 (1.4, 1.92)	-0.91** (-1.59,-0.23)	0.09
Sodium, mg/d	3436 (3248, 3625)	3150 (3055, 3246)	-286** (-493, -79)	3332 (3044, 3620)	3273 (3176, 3370)	-59 (-356, 238)	3186 (2860, 3512)	3283 (3174, 3393)	97 (-240, 434)	0.09
Nuts, seeds, and legumes, servings/d	0.42 (0.11, 0.74)	0.34 (0.21, 0.47)	-0.09 (-0.42,0.25)	0.19 (0.10, 0.29)	0.40 (0.30, 0.49)	0.21** (0.08,0.34)	0.32 (0.19, 0.46)	0.50 (0.39, 0.62)	0.18* (0.01,0.35)	0.12
Processed meat, servings/d	0.22 (0.18, 0.27)	0.26 (0.22, 0.3)	0.03 (-0.02,0.09)	0.30 (0.19, 0.41)	0.31 (0.25, 0.38)	0.01 (-0.11,0.14)	0.27 (0.14, 0.41)	0.33 (0.27, 0.38)	0.05 (-0.09,0.19)	0.92
Saturated fat, % of energy	10.5 (10.1, 10.8)	10.5 (10.2, 10.9)	0.1 (-0.4, 0.6)	11.2 (10.2, 12.3)	10.8 (10.4, 11.2)	-0.4 (-1.5, 0.7)	10.5 (9.7, 11.4)	11.1 (10.8, 11.4)	0.6 (-0.3, 1.4)	0.44

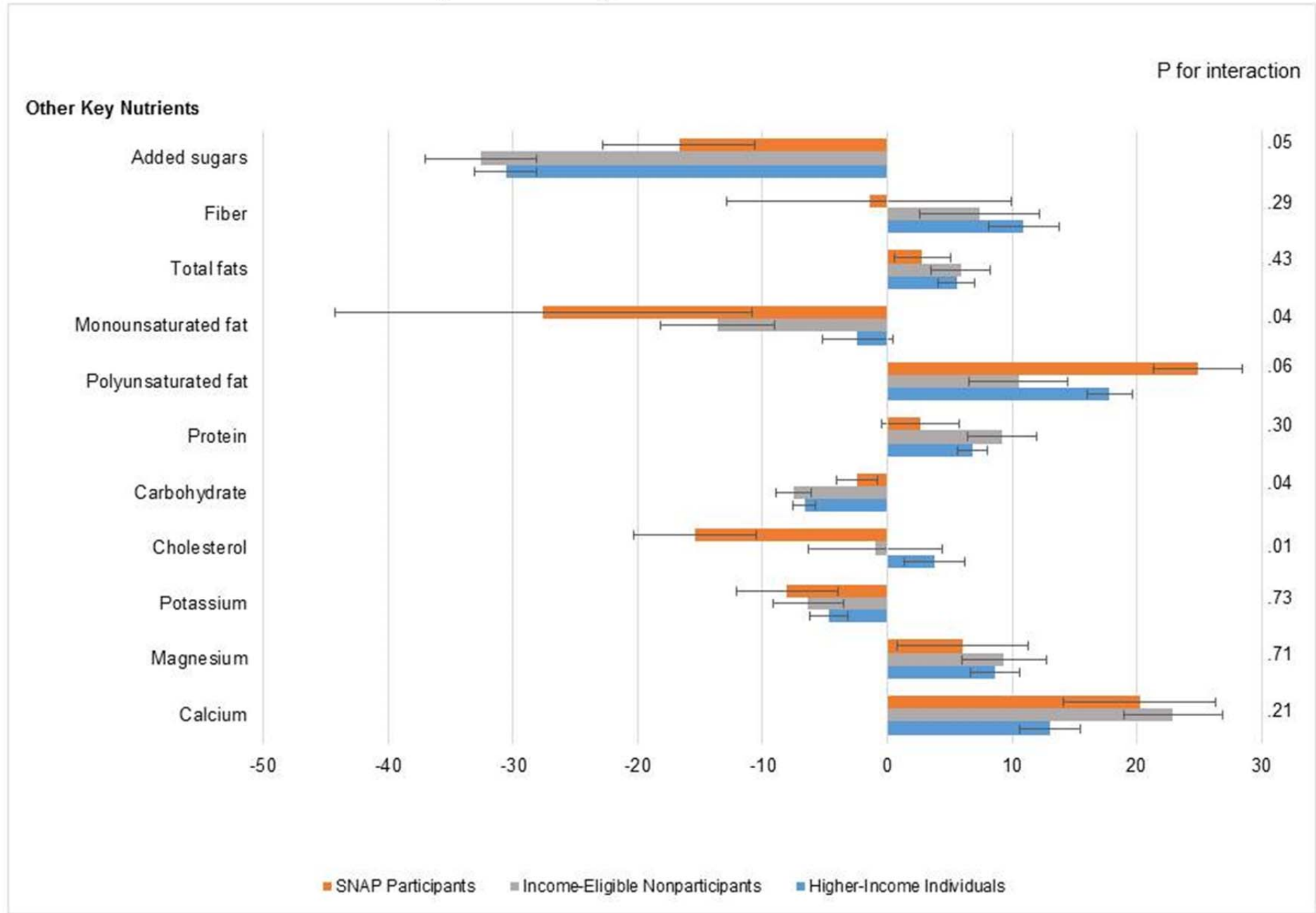
Abbreviations: AHA, American Heart Association; SNAP: Supplemental Nutrition Assistance Program

a. The mean change from 1999-2002 to 2011-2014 was statistically significant (*p<0.05; ** p<0.01; *** p<0.001)

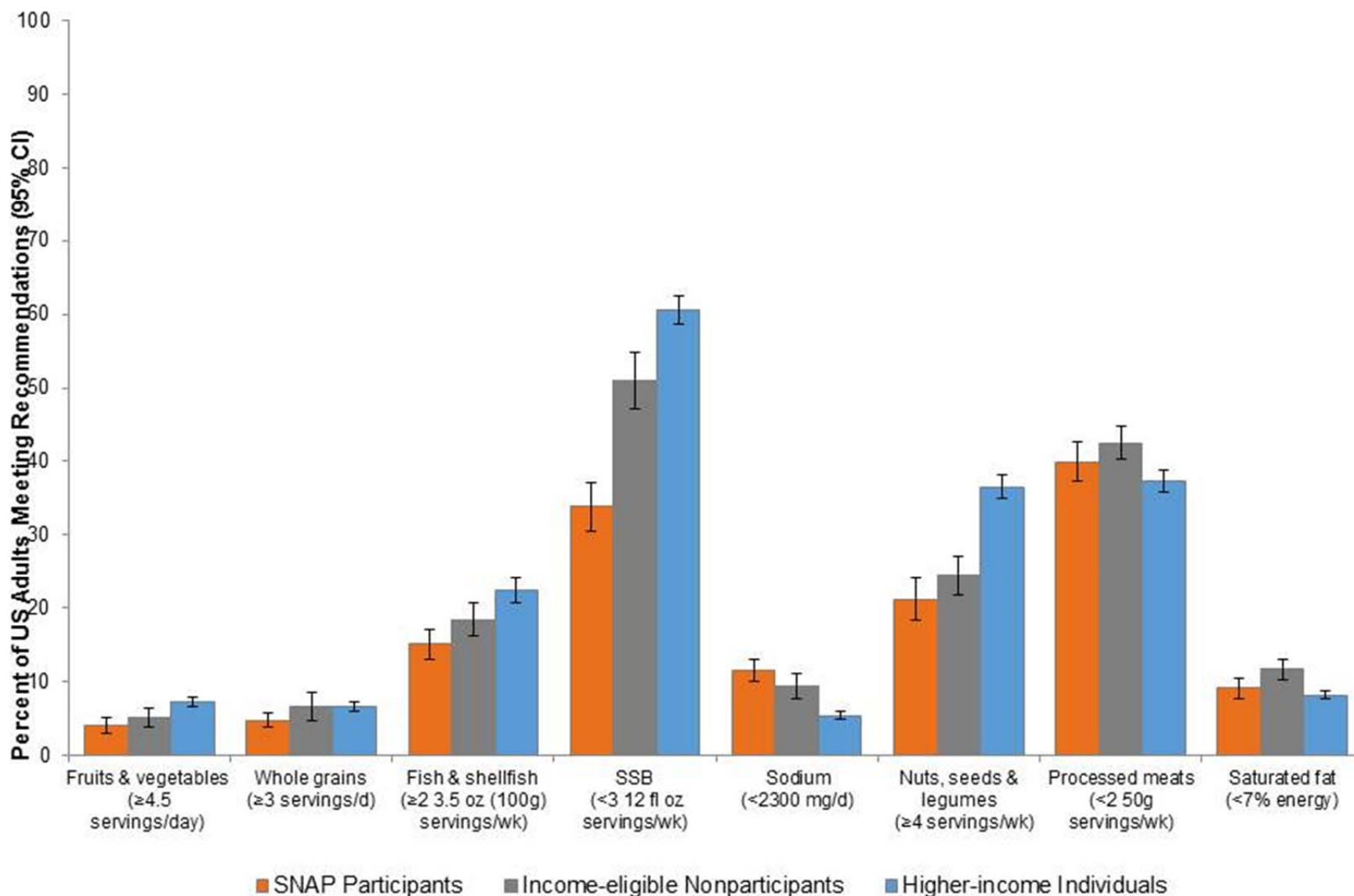
eFigure 1a. Percent Change in Intake of AHA Dietary Components and Key Food Groups Among U.S. Adults by SNAP Participation Status, From 1999-2000 to 2013-2014



eFigure 1b. Percent Change in Dietary Intake of Other Key Nutrients Among U.S. Adults by SNAP Participation Status, From 1999-2000 to 2013-2014



eFigure 2a. Percent of US Adults Meeting Dietary Recommendations for AHA 2020 Strategic Goals by SNAP Participation Status, 2013-2014



eFigure 2b. Percent of US Adults Meeting Dietary Recommendations for Other Key Food Groups and Nutrients by SNAP Participation Status, 2013-2014

