

Online Supplemental Material: Supplemental Table 1. Trends in mean portion sizes (kcal) of selected foods and mean total portion sizes (kcal) of eating occasions during which selected foods were consumed in U.S. children and adolescents 2-18 y old, nationally representative 1977-2006¹.

	Children 2-6 y old			Children 7-12 y old			Adolescents 13-18 y old		
	Food Mean ± SE	Eating Occasion Mean ± SE	% ²	Food Mean ± SE	Eating Occasion Mean ± SE	% ²	Food Mean ± SE	Eating Occasion Mean ± SE	% ²
SALTY SNACKS (kcal)		n= 5418			n= 4003			n= 3682	
1977-78	90.94 ± 3.10	464.47 ± 8.41	20	117.29 ± 3.91	658.42 ± 10.22	18	138.52 ± 4.91	736.60 ± 13.34	19
1989-91	115.96 ± 6.39 ³	487.46 ± 5.55	24	173.23 ± 16.43 ³	703.83 ± 28.20	25	174.49 ± 18.31	708.51 ± 49.53	25
1994-98	117.92 ± 3.20 ³	512.14 ± 8.77 ³	23	152.10 ± 6.76 ³	659.39 ± 15.14	23	216.12 ± 12.26 ³	780.31 ± 24.45	28
2003-6	115.29 ± 2.96 ³	496.08 ± 13.96	23	168.36 ± 8.27 ³	702.43 ± 19.21	24	198.82 ± 6.13 ³	791.54 ± 16.08 ³	25
DESSERTS (kcal)		n= 7508			n= 8240			n= 7259	
1977-78	164.73 ± 3.36	565.79 ± 6.47	29	208.00 ± 3.55	757.67 ± 7.53	27	251.94 ± 4.58	869.09 ± 8.87	29
1989-91	186.51 ± 12.42	583.03 ± 23.63	32	221.43 ± 13.01	766.12 ± 41.68	29	283.90 ± 14.20	945.76 ± 28.10	30
1994-98	181.99 ± 3.53 ³	556.65 ± 6.72	33	232.94 ± 6.57 ³	702.02 ± 16.29 ³	33	310.98 ± 14.82 ³	862.72 ± 34.05	36
2003-6	161.41 ± 5.83 ³	553.39 ± 15.42	29	235.53 ± 7.56 ³	713.85 ± 11.47 ³	33	268.16 ± 6.29	797.32 ± 19.96 ^{3,4}	34
SOFT DRINKS (kcal)		n= 6196			n= 5488			n= 9008	
1977-78	88.04 ± 1.77	477.54 ± 10.92	18	115.32 ± 1.93	653.14 ± 8.57	18	139.53 ± 1.91	753.92 ± 10.11	19
1989-91	103.66 ± 3.53 ³	536.19 ± 9.17 ³	19	130.68 ± 2.77 ³	693.91 ± 15.78	19	160.97 ± 4.08 ³	791.63 ± 28.11	20
1994-98	99.69 ± 1.95 ³	510.02 ± 7.21	20	144.77 ± 3.43 ^{3,4}	713.35 ± 14.43 ³	20	188.75 ± 4.60 ^{3,4}	875.81 ± 17.28 ³	22
2003-6	92.16 ± 2.73	555.41 ± 14.64 ³	17	137.65 ± 2.72 ³	753.46 ± 13.55 ³	18	190.17 ± 5.17 ^{3,4}	911.32 ± 16.31 ^{3,4}	21
FRUIT DRINKS (kcal)		n= 7946			n= 4959			n= 4082	
1977-78	87.55 ± 1.66	465.15 ± 8.46	19	109.01 ± 2.26	620.67 ± 9.50	18	126.18 ± 2.79	757.85 ± 17.18	17
1989-91	97.68 ± 3.86	502.67 ± 28.55	19	134.71 ± 12.77	707.33 ± 31.09	19	134.63 ± 4.75	783.93 ± 21.06	17
1994-98	104.34 ± 1.69 ³	479.89 ± 6.45	22	127.03 ± 2.10 ³	652.11 ± 13.46	19	183.54 ± 6.01 ^{3,4}	846.59 ± 25.75	22
2003-6	101.47 ± 3.59 ³	493.96 ± 13.66	21	126.95 ± 3.56 ³	634.09 ± 11.84	20	173.73 ± 4.20 ^{3,4}	831.73 ± 15.19 ³	21
FRENCH-FRIES (kcal)		n= 4517			n= 3353			n= 4156	
1977-78	132.37 ± 3.08	564.19 ± 10.06	23	169.14 ± 4.09	764.19 ± 9.70	22	197.78 ± 4.87	875.70 ± 10.39	23
1989-91	181.76 ± 7.68 ³	563.27 ± 17.34	32	223.52 ± 22.46	807.46 ± 39.31	28	265.26 ± 5.83 ³	939.09 ± 45.74	28
1994-98	154.17 ± 2.67 ³	532.77 ± 6.58	29	201.50 ± 5.40 ³	753.22 ± 19.14	27	263.07 ± 6.78 ³	984.62 ± 30.96 ³	27
2003-6	154.77 ± 6.56 ^{3,4}	558.26 ± 15.98	28	189.99 ± 5.50 ³	757.39 ± 16.14	25	260.47 ± 6.44 ³	947.51 ± 17.30 ³	27
BURGERS (kcal)		n= 1284			n= 973			n= 1482	
1977-78	274.20 ± 11.03	525.15 ± 18.81	52	353.26 ± 10.42	708.50 ± 18.71	50	396.38 ± 10.73	746.05 ± 18.19	53
1989-91	290.42 ± 24.80	615.95 ± 6.93 ³	47	356.94 ± 20.34	718.53 ± 45.34	50	482.21 ± 36.64	922.42 ± 77.11	52
1994-98	252.34 ± 7.36	525.25 ± 7.89 ⁴	48	408.62 ± 23.13	786.57 ± 28.20	52	554.31 ± 20.82 ³	1075.73 ± 31.02 ³	52
2003-6	321.91 ± 23.22	627.00 ± 36.76	51	421.96 ± 13.39 ³	841.40 ± 22.89 ³	50	546.55 ± 10.63 ³	1029.33 ± 22.94 ³	53
PIZZA (kcal)		n= 2438			n= 2292			n= 2373	
1977-78	278.34 ± 12.48	446.85 ± 16.51	62	367.83 ± 14.64	643.43 ± 17.10	57	478.97 ± 15.19	780.48 ± 18.45	61
1989-91	274.66 ± 12.14	446.04 ± 24.19	62	423.07 ± 31.42	663.07 ± 33.79	64	586.02 ± 62.10	787.66 ± 78.60	74
1994-98	252.79 ± 8.30	420.78 ± 11.40	60	325.52 ± 13.48 ⁴	557.13 ± 20.28 ³	58	504.51 ± 29.07	794.47 ± 34.66	64
2003-6	375.59 ± 14.58 ^{3,4,5}	559.39 ± 15.95 ^{3,4,5}	67	492.39 ± 14.61 ^{3,5}	752.27 ± 20.81 ^{3,5}	65	698.81 ± 17.20 ^{3,5}	957.85 ± 18.12 ^{3,5}	73
MEXICAN FOOD (kcal)		n= 716			n= 787			n= 985	
1977-78	243.55 ± 20.49	471.60 ± 35.64	52	392.61 ± 28.56	720.11 ± 32.28	55	408.68 ± 30.56	812.28 ± 50.33	50
1989-91	278.61 ± 23.94	479.62 ± 37.15	58	317.42 ± 27.41	612.95 ± 62.04	52	362.97 ± 36.69	718.27 ± 84.31	51
1994-98	299.98 ± 16.76	518.60 ± 18.30	58	447.45 ± 21.91 ⁴	756.66 ± 43.04	59	532.16 ± 30.99 ⁴	907.35 ± 49.32	59
2003-6	348.24 ± 20.05 ³	552.25 ± 24.90	63	471.22 ± 22.67 ⁴	748.64 ± 26.44	63	613.68 ± 22.35 ^{3,4}	942.17 ± 36.63	65

¹The analysis sample included respondents aged 2-18 y old from US nationally representative surveys: NFCS 1977-78; CSFII 1989-91; CSFII 1994-98; NHANES 2003-06.

²The % kcal was calculated dividing: (kcal from food) / (kcal from eating occasions during which selected foods were consumed) * 100.

³⁻⁵ Portion size of food and eating occasion is statistically significantly different from ³1977-78, ⁴1989-91, ⁵1994-98, P<0.01 (F test, Bonferroni-adjusted).

Online Supplemental Material: Supplemental Table 2. Trends in mean portion sizes (g/mL) of selected foods in U.S. children and adolescents 2-18 y old, nationally representative 1977-2006¹.

	Children 2-6 y old		Children 7-12 y old		Adolescents 13-18 y old	
	Mean	± SE	Mean	± SE	Mean	± SE
SALTY SNACKS (g)	n= 5418		n= 4003		n= 3682	
1977-78	18.5	± 0.7	23.3	± 0.9	27.6	± 1.0
1989-91	23.2	± 1.3 ³	34.7	± 3.4 ³	34.7	± 3.5
1994-98	23.7	± 0.6 ³	30.2	± 1.3 ³	43.6	± 2.4 ³
2003-6	23.2	± 0.6 ³	34.5	± 1.7 ³	40.1	± 1.3 ³
DESSERTS (g)	n= 7508		n= 8240		n= 7259	
1977-78	71.5	± 1.8	86.1	± 1.9	100.0	± 1.9
1989-91	76.6	± 3.1	89.6	± 8.2	111.0	± 3.5
1994-98	72.2	± 1.9	87.2	± 2.9	112.9	± 5.7
2003-6	62.5	± 2.2 ^{3,4,5}	86.1	± 3.5	91.8	± 2.9 ^{4,5}
SOFT DRINKS (mL)	n= 6196		n= 5488		n= 9008	
1977-78	216.3	± 4.3	282.4	± 4.5	342.0	± 4.7
1989-91	254.7	± 8.6 ³	321.6	± 6.5 ³	396.3	± 10.5 ³
1994-98	246.0	± 4.8 ³	356.3	± 8.4 ^{3,4}	463.8	± 11.2 ^{3,4}
2003-6	236.4	± 7.2	356.4	± 7.4 ^{3,4}	493.7	± 13.8 ^{3,4}
FRUIT DRINKS (mL)	n= 7946		n= 4959		n= 4082	
1977-78	221.7	± 3.9	271.0	± 4.9	312.0	± 6.7
1989-91	249.6	± 11.2	313.2	± 19.1	343.0	± 11.2
1994-98	241.1	± 3.5 ³	300.8	± 6.6 ³	418.3	± 12.1 ^{3,4}
2003-6	231.4	± 9.1	288.0	± 8.4	396.3	± 7.6 ^{3,4}
FRENCH-FRIES (g)	n= 4517		n= 3353		n= 4156	
1977-78	59.4	± 2.0	75.0	± 2.0	86.0	± 2.7
1989-91	67.2	± 2.3	86.5	± 8.9	109.0	± 3.5 ³
1994-98	58.3	± 1.3 ⁴	75.2	± 1.8	95.9	± 2.4
2003-6	54.9	± 2.2 ⁴	66.3	± 1.9 ^{3,5}	89.8	± 2.3 ⁴
BURGERS (g)	n= 1284		n= 973		n= 1482	
1977-78	112.8	± 4.1	145.3	± 4.3	162.7	± 4.4
1989-91	117.6	± 9.5	141.4	± 6.6	192.4	± 14.6
1994-98	103.2	± 2.9	161.2	± 8.7	217.5	± 8.7 ³
2003-6	121.5	± 9.2	161.0	± 5.2	213.2	± 4.1 ³
PIZZA (g)	n= 2438		n= 2292		n= 2373	
1977-78	99.7	± 4.5	133.2	± 5.1	172.7	± 5.3
1989-91	100.5	± 4.7	148.3	± 10.5	206.7	± 20.7
1994-98	89.8	± 2.8	115.0	± 4.7 ⁴	177.4	± 9.7
2003-6	131.4	± 4.9 ^{3,4,5}	171.0	± 4.8 ^{3,5}	242.0	± 5.8 ^{3,5}
MEXICAN FOOD (g)	n= 716		n= 787		n= 985	
1977-78	106.8	± 8.6	172.9	± 12.8	177.9	± 12.7
1989-91	119.5	± 8.0	139.6	± 9.1	155.5	± 12.6
1994-98	121.6	± 6.4	179.9	± 9.7	224.7	± 11.7 ⁴
2003-6	135.8	± 7.7	190.6	± 8.9 ⁴	250.0	± 9.6 ^{3,4}

¹The analysis sample included respondents aged 2-18 y old from US nationally representative surveys: NFCS 1977-78; CSFII 1989-91; CSFII 1994-98; NHANES 2003-06.

³⁻⁵ Portion size of food (g) is statistically significantly different from ³1977-78, ⁴1989-91, ⁵1994-98, P<0.01 (F test, Bonferroni-adjusted).