

Supplemental Appendix Y

National Survey Data: Body Weight and Adiposity

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Measure	Age (y)	n	Mean	SE	Percentiles						
					5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	2	207	16.9	0.2	14.9	15.3	15.8	16.6	17.6	19.2	19.6
	3	181	16.8	0.2	14.3	14.6	15.5	16.2	17.2	18.3	21.6
	4	178	16.5	0.1	14.4	15.0	15.4	16.1	17.1	18.4	19.8
	5	180	16.6	0.2	13.7	14.1	15.2	16.0	17.3	19.2	21.8
	6	168	16.8	0.2	14.4	14.6	15.1	15.9	17.6	20.2	21.5
	7	193	17.3	0.3	13.6	14.1	15.1	16.5	18.7	21.4	23.2
	8	217	18.0	0.3	13.9	14.5	15.3	16.9	19.6	23.2	25.3
	9	195	18.9	0.4	14.3	14.7	15.9	17.4	20.6	25.4	26.7
	10	185	20.1	0.4	14.8	15.5	16.5	19.3	22.0	26.0	28.5
	11	172	20.7	0.5	14.9	15.3	16.6	19.3	24.4	26.7	29.1
	12	157	20.3	0.5	15.1	15.6	16.9	19.1	22.8	26.7	30.1
	13	163	22.7	0.5	15.8	16.5	18.2	20.7	27.3	31.8	33.3
	14	166	22.5	0.5	16.5	17.5	18.4	21.4	25.2	29.2	33.7
	15	165	24.4	0.7	15.5	17.4	19.1	22.6	28.5	33.0	35.5
	16	152	23.6	0.4	17.5	18.5	20.3	22.3	25.9	28.4	34.1
	17	156	25.1	0.6	17.5	18.0	20.6	22.9	28.3	33.6	39.8
	18	129	24.7	0.7	17.6	19.0	20.1	23.3	26.6	32.5	39.5
	Weight (kg)	0-6 mo									
7-11 mo											
1		268	11.5	0.1	8.8	9.4	10.3	11.5	12.3	13.4	14.3
2		242	14.0	0.2	11.1	11.7	12.7	13.7	15.2	16.7	17.6
3		184	16.6	0.4	13.4	13.7	14.6	15.5	17.5	19.8	23.2
4		178	18.6	0.2	14.4	15.5	16.8	17.8	20.3	22.3	23.7
5		181	21.1	0.4	15.6	16.6	18.2	20.5	22.9	26.4	28.3
6		169	23.9	0.4	17.9	18.8	20.2	22.5	25.4	30.4	34.1
7		193	27.7	0.7	20.2	20.9	22.8	26.2	30.7	36.2	39.1
8		218	31.6	0.6	22.2	23.5	25.8	29.5	35.6	43.3	48.2
9		195	35.4	1.0	23.6	25.6	28.3	31.8	38.9	49.6	57.1
10		185	40.8	1.0	27.2	28.7	32.6	38.7	44.2	56.0	63.4
11		173	46.5	1.6	28.5	30.8	35.7	44.6	55.1	64.2	69.2
12		157	48.9	1.4	30.4	33.2	38.4	46.4	55.7	67.9	74.2
13		163	60.4	1.5	38.0	41.2	46.6	55.4	70.1	87.3	96.2
14		166	65.1	1.8	42.5	43.4	51.2	59.9	77.5	91.1	99.8
15		165	72.7	1.9	47.2	49.8	57.0	66.1	84.1	104.7	114.5
16		152	71.3	1.5	50.9	53.6	59.4	66.8	77.3	90.2	102.0
17	156	77.1	1.9	49.8	52.3	60.4	72.1	88.9	103.7	124.6	
18	129	75.6	2.0	55.3	58.2	64.0	71.0	81.4	101.4	120.5	
Height (cm) recumbent length for 2 y	0-6 mo										
	7-11 mo										
	12-23 mo										
	2	208	91.4	0.3	84.4	85.7	88.5	91.1	94.3	96.9	98.6
	3	181	99.1	0.4	91.2	93.2	96.0	99.2	102.1	104.9	106.1
	4	178	105.9	0.4	97.2	100.2	102.5	105.4	108.9	112.1	114.5
	5	180	112.8	0.6	102.7	105.4	108.8	112.4	116.3	120.2	122.6
	6	168	118.8	0.5	109.6	111.5	114.7	118.0	121.8	126.9	128.4
	7	193	126.1	0.5	116.5	118.2	122.3	126.1	129.8	134.3	136.4
	8	217	132.1	0.6	121.2	124.2	127.8	131.8	136.4	141.5	143.5
	9	195	135.9	0.7	122.6	125.7	131.0	136.4	140.3	144.4	148.6
	10	185	141.7	0.6	130.7	132.2	137.4	141.1	146.3	149.7	151.7
	11	172	149.3	0.8	136.3	139.7	143.3	148.3	153.7	159.6	162.9
12	157	154.2	0.9	140.3	141.4	148.1	153.9	159.0	166.7	169.4	
13	163	162.5	0.7	149.4	151.7	157.0	163.6	167.6	171.6	172.8	

	14	166	169.0	0.8	154.8	156.5	163.0	170.0	175.3	179.5	180.4
	15	165	172.3	0.7	160.1	161.8	167.3	172.7	176.4	181.6	183.5
	16	152	173.5	0.6	160.1	163.2	167.4	172.6	179.5	184.9	185.8
	17	156	175.2	0.6	163.7	167.4	170.2	174.9	179.8	184.9	187.2
	18	129	175.2	0.7	163.9	166.7	170.9	175.5	179.8	182.1	184.9
Waist circumference (cm)											
	2	182	48.8	0.3	42.4	44.3	46.2	48.7	50.9	53.4	54.6
	3	156	51.3	0.8	45.3	46.1	48.0	50.0	52.5	55.3	60.7
	4	159	53.2	0.3	47.1	48.2	49.9	52.3	54.8	59.7	62.2
	5	168	55.0	0.6	48.3	49.1	51.5	53.9	56.6	61.6	68.3
	6	159	57.3	0.6	49.0	50.2	52.1	55.6	58.9	68.0	71.5
	7	185	59.9	0.9	50.9	51.7	54.0	58.0	63.3	72.5	75.2
	8	212	63.1	0.7	52.2	53.5	56.3	59.9	67.6	77.4	82.5
	9	184	66.6	1.2	54.7	55.4	58.6	62.5	72.5	85.3	89.0
	10	181	70.4	1.0	55.8	57.1	60.7	67.7	77.1	88.8	92.2
	11	165	73.2	1.7	55.3	58.1	61.0	69.1	84.8	94.2	97.7
	12	152	72.9	1.4	59.1	59.4	63.2	69.1	79.3	93.6	95.9
	13	158	80.2	1.4	61.5	63.2	66.9	73.4	93.5	105.6	109.6
	14	160	80.3	1.5	64.3	65.3	69.1	74.2	88.7	104.5	107.5
	15	163	85.0	1.7	64.1	65.9	70.6	79.0	95.0	110.1	121.9
	16	149	81.7	1.2	66.7	69.2	73.4	78.4	85.7	98.6	107.9
	17	153	85.6	1.5	66.4	67.7	73.4	79.8	94.2	109.7	122.5
	18	127	84.9	1.8	67.2	69.5	72.8	79.6	92.1	109.5	121.8
Average sagittal abdominal diameter (cm)*											
	9	89	15.2	0.3	12.0	12.6	13.2	14.4	16.5	19.5	20.1
	10	94	15.9	0.3	12.6	13.0	13.6	15.3	17.5	19.1	21.8
	11	95	16.2	0.5	.	12.7	13.5	15.8	18.2	20.2	20.9
	12	82	16.2	0.5	12.6	13.0	13.9	15.2	17.6	19.8	21.5
	13	86	17.5	0.4	13.1	13.7	14.6	16.2	19.8	23.3	24.9
	14	94	17.8	0.5	13.8	14.6	15.1	16.6	19.2	23.2	23.7
	15	89	18.5	0.5	13.7	14.2	15.8	17.2	19.6	25.4	27.9
	16	77	18.3	0.3	15.0	15.5	16.0	17.1	18.9	21.9	25.7
	17	76	19.5	0.5	14.6	15.2	16.7	18.2	21.0	24.5	26.5
	18	64	19.0	0.7	.	15.4	16.6	17.7	20.5	25.3	27.7
Waist:hip ratio**											
	12	68	0.9	0.0	0.8	0.8	0.8	0.9	0.9	1.0	1.0
	13	72	0.9	0.0	0.8	0.8	0.8	0.9	0.9	1.0	1.0
	14	66	0.9	0.0	0.8	0.8	0.8	0.8	0.9	1.0	1.0
	15	74	0.9	0.0	0.8	0.8	0.8	0.9	0.9	1.0	1.0
	16	73	0.8	0.0	0.8	0.8	0.8	0.8	0.9	0.9	0.9
	17	76	0.9	0.0	0.8	0.8	0.8	0.8	0.9	1.0	1.0
	18	63	0.9	0.0	0.8	0.8	0.8	0.8	0.9	1.0	1.0

NOTE: shaded cells = not applicable.

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016;

**2017-2018

TABLE Y-2 Body Measurement Summary Statistics, Girls 18 Years of Age and Younger, Expanded by Single Ages, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	2	214	16.4	0.1	14.3	14.6	15.4	16.3	17.1	18.0	18.6
	3	153	16.2	0.1	14.0	14.6	15.3	16.0	16.8	17.8	18.4
	4	188	16.4	0.1	14.2	14.5	15.2	16.1	17.1	18.5	19.4
	5	190	16.6	0.2	13.9	14.2	14.9	15.9	17.8	19.7	21.0
	6	180	16.7	0.2	13.5	13.9	14.6	15.7	17.5	20.2	22.8
	7	190	17.5	0.3	13.3	14.3	15.1	16.6	19.2	21.9	24.5
	8	186	18.4	0.4	13.6	14.3	15.7	17.2	20.2	23.9	25.8
	9	215	18.4	0.3	14.7	15.2	16.0	17.2	20.0	22.9	25.2
	10	186	19.8	0.4	14.2	14.9	16.5	19.0	22.0	25.6	28.4
	11	205	21.0	0.5	15.3	16.0	17.2	19.8	23.7	28.2	30.7
	12	154	22.0	0.4	15.4	16.1	18.0	21.5	25.0	28.8	30.3
	13	138	22.7	0.5	16.6	17.2	18.3	20.8	25.9	29.2	32.7
	14	169	23.7	0.4	17.9	18.4	20.1	22.6	25.4	29.9	31.4
	15	129	24.0	0.6	18.0	18.7	19.7	21.8	25.9	33.4	35.1
	16	170	25.0	0.6	18.1	19.0	21.2	23.7	26.8	32.6	38.2
	17	146	25.6	0.6	18.0	19.2	21.1	24.1	29.0	32.6	36.8
	18	141	26.1	0.7	17.6	19.3	20.8	23.6	28.8	37.7	39.7
	Weight (kg)	0-6 mo									
7-11 mo											
1		230	11.0	0.1	8.7	9.1	9.8	10.8	11.7	13.0	13.6
2		249	13.2	0.1	10.5	11.0	11.9	13.0	14.4	15.1	15.7
3		155	15.4	0.2	12.4	13.0	14.2	14.9	16.8	18.2	19.3
4		188	18.1	0.3	14.0	14.9	16.0	17.7	19.7	21.2	22.7
5		190	21.0	0.4	15.1	16.2	17.8	19.7	24.2	26.4	28.5
6		180	23.7	0.4	16.9	18.3	20.2	22.4	25.1	30.4	34.8
7		190	27.3	0.5	19.7	20.2	22.0	25.7	29.8	36.8	41.7
8		186	31.3	0.9	21.4	22.1	24.8	28.3	36.3	42.9	47.6
9		216	34.9	0.8	23.6	25.6	29.0	33.4	37.3	46.4	52.5
10		186	41.1	1.0	24.9	27.1	31.6	39.5	49.0	55.7	58.6
11		205	48.1	1.4	29.7	31.8	37.2	43.6	56.6	66.6	72.4
12		154	53.0	1.0	32.6	35.8	42.4	52.1	61.1	70.6	76.0
13		138	57.0	1.7	36.7	39.9	46.9	52.2	65.5	78.2	88.3
14		169	62.2	1.0	45.1	46.3	50.8	59.5	68.8	80.9	84.5
15		129	62.4	1.5	44.2	45.9	51.2	58.1	68.5	85.4	95.7
16		170	65.7	1.6	47.7	49.6	53.7	61.8	71.7	85.2	97.7
17	146	67.9	1.6	46.0	49.7	55.7	65.1	75.8	90.1	95.4	
18	141	68.8	1.7	44.9	47.8	55.3	62.7	79.2	96.2	111.1	
Height (cm) recumbent length for <2	0-6 mo										
	7-11 mo										
	12-23 mo										
	2	214	89.8	0.3	83.5	84.8	86.8	89.7	92.6	94.7	95.8
	3	154	97.5	0.4	90.4	91.9	94.9	96.9	100.0	103.9	105.9
	4	189	105.0	0.6	97.0	98.4	102.1	104.6	108.6	111.8	113.2
	5	190	111.9	0.7	101.9	103.3	107.9	112.1	115.6	118.3	122.6
	6	180	118.8	0.5	109.1	111.3	114.3	119.3	122.7	125.0	127.1
	7	190	124.1	0.5	114.9	116.7	119.8	123.7	127.9	131.6	133.7
	8	186	129.8	0.7	120.2	120.9	126.0	129.8	133.9	138.4	141.8
	9	215	136.9	0.7	126.1	128.2	131.8	136.5	142.5	145.9	147.4
	10	186	143.0	0.5	130.2	133.2	138.9	142.3	148.2	152.5	154.7
	11	205	150.4	0.8	136.6	140.2	145.1	150.8	156.1	160.1	162.8
	12	154	154.8	0.7	142.0	145.3	151.9	154.3	158.8	164.5	166.0
	13	138	158.1	0.7	145.0	150.3	154.2	157.7	162.8	164.8	166.3
14	169	161.8	0.7	150.5	152.0	156.9	161.2	166.6	170.6	173.0	
15	129	161.0	0.8	151.3	153.1	156.1	160.0	165.4	171.3	173.2	

	16	170	161.9	0.6	151.9	154.2	157.5	161.7	165.7	169.4	172.7
	17	146	163.0	0.8	152.8	155.2	157.7	162.4	167.1	171.9	173.4
	18	141	162.0	0.7	149.9	152.2	159.2	162.3	166.4	168.6	170.9
Waist circumference (cm)											
	2	188	48.0	0.3	42.8	44.0	45.6	47.8	49.9	51.8	52.9
	3	131	50.3	0.3	44.8	45.8	47.8	50.6	52.0	54.2	55.8
	4	170	53.0	0.5	47.1	48.1	49.6	52.0	55.1	58.1	62.5
	5	175	55.9	0.5	48.1	49.5	51.0	54.6	58.6	64.2	69.0
	6	171	57.1	0.7	48.6	49.6	52.4	54.5	60.1	68.0	76.4
	7	188	60.6	0.8	49.9	51.0	53.9	58.7	64.3	73.5	79.9
	8	179	63.1	1.0	51.2	53.1	55.2	59.6	69.1	78.0	83.1
	9	205	65.0	0.8	53.9	55.4	58.6	62.3	70.0	77.3	85.2
	10	180	70.0	1.2	53.6	56.6	60.7	68.8	78.3	85.3	91.4
	11	199	73.2	1.2	59.1	61.1	63.8	69.7	79.7	90.9	98.5
	12	145	76.6	1.0	58.5	61.3	66.6	74.7	85.0	93.7	97.2
	13	135	78.5	1.3	63.3	65.3	68.6	77.0	85.3	96.4	100.9
	14	162	80.6	0.9	66.5	68.8	71.6	77.8	86.0	94.9	98.7
	15	125	80.4	1.2	65.6	68.1	71.9	76.3	86.4	99.7	104.1
	16	165	82.2	1.2	67.3	70.1	73.8	78.5	86.8	97.2	109.5
	17	142	84.2	1.3	67.2	70.2	75.0	82.3	91.4	98.5	107.6
	18	134	85.2	1.8	66.5	67.2	71.6	81.9	94.7	107.4	115.3
Average sagittal abdominal diameter (cm)*											
	9	108	14.3	0.2	11.3	12.0	12.8	14.0	15.2	16.7	17.7
	10	95	15.7	0.4	11.1	12.0	13.2	15.1	17.7	19.7	20.9
	11	104	16.1	0.4	13.0	13.1	14.3	15.5	17.1	19.9	21.4
	12	76	17.5	0.4	13.5	14.0	14.8	17.0	19.6	21.2	22.6
	13	70	17.5	0.5	13.2	13.4	15.3	17.3	19.6	21.1	23.2
	14	84	17.5	0.3	13.7	14.7	15.4	16.9	18.5	21.3	22.5
	15	69	17.8	0.5	.	14.7	15.6	16.6	19.0	23.6	24.5
	16	89	18.2	0.5	13.8	14.7	15.9	17.6	19.4	21.9	24.4
	17	74	19.1	0.4	14.3	15.2	16.7	19.0	20.6	22.3	25.4
	18	67	19.7	0.7	13.8	14.4	15.9	19.2	22.3	26.6	27.5
Waist:hip ratio**											
	12	63	0.8	0.0	0.8	0.8	0.8	0.8	0.9	0.9	0.9
	13	65	0.8	0.0	0.8	0.8	0.8	0.8	0.9	0.9	1.0
	14	78	0.8	0.0	0.7	0.8	0.8	0.8	0.9	0.9	0.9
	15	56	0.8	0.0	0.8	0.8	0.8	0.8	0.9	0.9	1.0
	16	75	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.9	0.9
	17	68	0.8	0.0	0.7	0.8	0.8	0.8	0.9	0.9	0.9
	18	66	0.8	0.0	0.7	0.7	0.8	0.8	0.9	0.9	1.0

Note: Pregnant and lactating adolescents excluded; shaded cells = not applicable.

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-3a BMI Percentiles 1-99 for Children by Sex and Age Group, NHANES 2015-2018

%tile	Boys				Girls			
	2-3 y	4-8 y	9-13 y	14-18 y	2-3 y	4-8 y	9-13 y	14-18 y
1	13.5	13.3	14.2	15.4	13.4	13.0	13.5	15.9
2	13.9	13.5	14.4	15.6	13.8	13.3	14.2	16.9
3	14.3	13.7	14.6	16.2	14.0	13.4	14.6	17.4
4	14.4	13.8	14.7	16.6	14.1	13.6	14.8	17.7
5	14.5	13.9	14.9	16.9	14.2	13.7	15.0	18.0
6	14.6	14.0	15.0	17.3	14.3	13.8	15.2	18.2
7	14.6	14.1	15.2	17.5	14.3	13.9	15.3	18.3
8	14.7	14.2	15.3	17.5	14.4	14.0	15.5	18.4
9	14.7	14.4	15.4	17.6	14.5	14.1	15.6	18.6
10	14.8	14.5	15.5	17.7	14.6	14.2	15.7	18.9
11	14.9	14.5	15.5	17.9	14.7	14.3	15.8	19.1
12	15.0	14.6	15.6	18.1	14.8	14.3	15.9	19.2
13	15.1	14.7	15.7	18.2	14.9	14.4	16.0	19.3
14	15.2	14.7	15.8	18.4	14.9	14.4	16.0	19.3
15	15.2	14.8	15.9	18.6	15.0	14.5	16.1	19.4
16	15.3	14.9	16.0	18.8	15.0	14.6	16.1	19.5
17	15.3	14.9	16.1	18.9	15.1	14.6	16.2	19.6
18	15.4	15.0	16.1	19.0	15.1	14.7	16.3	19.7
19	15.4	15.0	16.2	19.1	15.2	14.8	16.4	19.8
20	15.5	15.0	16.3	19.3	15.2	14.9	16.5	20.0
21	15.5	15.1	16.4	19.4	15.2	14.9	16.6	20.1
22	15.6	15.1	16.5	19.5	15.3	14.9	16.7	20.3
23	15.6	15.1	16.6	19.6	15.3	15.0	16.8	20.4
24	15.6	15.2	16.6	19.7	15.3	15.0	16.9	20.5
25	15.7	15.2	16.7	19.8	15.3	15.0	17.0	20.6
26	15.7	15.3	16.8	19.8	15.3	15.1	17.1	20.6
27	15.7	15.3	16.8	19.9	15.4	15.1	17.1	20.8
28	15.7	15.4	16.9	20.0	15.4	15.2	17.2	20.9
29	15.8	15.4	17.0	20.1	15.4	15.3	17.2	21.0
30	15.8	15.4	17.1	20.3	15.4	15.3	17.3	21.2
31	15.8	15.5	17.2	20.4	15.5	15.3	17.4	21.3
32	15.8	15.5	17.3	20.5	15.5	15.4	17.5	21.4
33	15.9	15.5	17.4	20.6	15.5	15.5	17.6	21.5
34	15.9	15.6	17.4	20.7	15.6	15.5	17.7	21.6
35	15.9	15.6	17.5	20.8	15.6	15.6	17.8	21.6
36	16.0	15.6	17.7	20.9	15.6	15.6	17.9	21.7
37	16.0	15.7	17.9	21.0	15.6	15.6	18.0	21.8
38	16.0	15.7	17.9	21.1	15.7	15.7	18.1	22.0
39	16.0	15.8	18.0	21.2	15.7	15.7	18.2	22.0
40	16.0	15.8	18.1	21.3	15.7	15.8	18.3	22.1
41	16.1	15.8	18.2	21.4	15.8	15.8	18.4	22.2
42	16.1	15.9	18.3	21.5	15.8	15.8	18.5	22.2
43	16.1	15.9	18.4	21.6	15.9	15.9	18.7	22.3
44	16.2	16.0	18.5	21.7	15.9	16.0	18.8	22.5

45	16.2	16.0	18.6	21.8	15.9	16.0	18.9	22.6
46	16.2	16.0	18.7	21.9	16.0	16.0	19.0	22.7
47	16.3	16.1	18.8	21.9	16.0	16.1	19.1	22.8
48	16.3	16.1	19.0	22.0	16.0	16.1	19.2	23.0
49	16.4	16.2	19.1	22.1	16.1	16.2	19.4	23.1
50	16.4	16.2	19.2	22.3	16.1	16.2	19.5	23.2
51	16.5	16.3	19.3	22.4	16.1	16.3	19.6	23.4
52	16.5	16.3	19.4	22.5	16.2	16.3	19.7	23.6
53	16.5	16.4	19.5	22.7	16.2	16.4	19.9	23.6
54	16.6	16.4	19.6	22.9	16.2	16.4	20.0	23.7
55	16.6	16.5	19.8	23.1	16.3	16.4	20.2	23.8
56	16.7	16.6	19.8	23.3	16.3	16.5	20.3	23.9
57	16.7	16.6	20.0	23.4	16.3	16.5	20.4	24.1
58	16.7	16.7	20.1	23.6	16.4	16.6	20.6	24.3
59	16.8	16.7	20.2	23.7	16.4	16.7	20.7	24.5
60	16.8	16.8	20.3	23.9	16.4	16.7	20.8	24.6
61	16.8	16.8	20.5	24.0	16.5	16.8	21.0	24.8
62	16.9	16.9	20.7	24.2	16.5	16.8	21.1	24.9
63	16.9	16.9	20.9	24.2	16.6	16.9	21.2	25.0
64	17.0	17.1	21.1	24.3	16.6	17.0	21.3	25.2
65	17.0	17.2	21.2	24.5	16.6	17.1	21.5	25.3
66	17.0	17.3	21.4	24.6	16.7	17.2	21.7	25.6
67	17.0	17.3	21.5	24.8	16.7	17.3	21.8	25.9
68	17.1	17.4	21.6	25.0	16.7	17.4	22.1	26.0
69	17.1	17.5	21.7	25.3	16.8	17.4	22.3	26.2
70	17.2	17.5	21.9	25.5	16.8	17.6	22.6	26.4
71	17.2	17.6	22.1	25.7	16.8	17.7	22.9	26.7
72	17.3	17.7	22.3	25.9	16.9	17.8	23.0	26.8
73	17.3	17.7	22.6	26.1	16.9	17.9	23.1	27.1
74	17.4	17.8	22.9	26.2	16.9	18.0	23.4	27.4
75	17.4	17.9	23.3	26.6	17.0	18.2	23.6	27.7
76	17.5	18.0	23.5	26.8	17.1	18.3	23.8	27.9
77	17.5	18.1	23.8	26.9	17.1	18.5	24.0	28.2
78	17.6	18.2	24.0	27.2	17.2	18.6	24.2	28.6
79	17.6	18.4	24.3	27.5	17.2	18.7	24.3	28.9
80	17.7	18.5	24.5	27.8	17.3	18.8	24.5	29.0
81	17.8	18.8	24.6	28.3	17.4	18.9	24.6	29.2
82	17.9	19.0	24.9	28.6	17.4	19.1	25.0	29.6
83	18.0	19.2	25.4	29.3	17.5	19.3	25.2	29.9
84	18.1	19.4	25.6	29.6	17.5	19.5	25.7	30.3
85	18.2	19.6	25.8	29.8	17.6	19.7	26.0	30.6
86	18.3	19.8	26.2	30.3	17.6	20.0	26.1	31.0
87	18.4	20.0	26.5	30.8	17.7	20.2	26.3	31.3
88	18.4	20.2	26.8	31.2	17.8	20.5	26.7	31.9
89	18.5	20.5	27.3	31.6	17.9	20.9	27.2	32.3
90	18.8	20.8	27.7	32.3	17.9	21.1	27.9	32.8
91	19.2	21.1	28.1	32.9	18.0	21.4	28.2	33.1

92	19.4	21.5	28.6	33.3	18.1	21.7	28.3	33.9
93	19.6	22.0	29.3	34.0	18.2	22.4	28.8	35.0
94	19.7	22.5	29.9	34.8	18.4	22.7	29.3	36.1
95	19.8	23.0	30.6	35.8	18.6	23.2	30.1	37.5
96	20.2	23.6	31.1	38.4	18.7	23.9	30.7	38.6
97	22.1	24.7	32.3	40.0	18.8	24.7	31.4	40.4
98	23.4	25.5	33.3	42.0	19.2	25.5	33.4	42.7
99	25.0	26.4	36.6	44.8	19.7	27.1	35.3	44.5

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-3b BMI Percentiles for Children in Normal Weight Category by Sex and Age Group, NHANES 2015-2018

%tile	Boys				Girls			
	Age (y)	Age (y)	Age (y)	Age (y)	Age (y)	Age (y)	Age (y)	Age (y)
	2-3 y	4-8 y	9-13 y	14-18 y	2-3 y	4-8 y	9-13 y	14-18 y
1	14.3	13.8	14.4	17.6	14.1	13.6	14.5	17.4
2	14.4	13.9	14.8	17.8	14.2	13.7	14.9	17.7
3	14.5	14.0	14.9	18.1	14.2	13.8	15.1	18.0
4	14.5	14.1	15.1	18.2	14.3	13.9	15.2	18.2
5	14.6	14.1	15.2	18.2	14.3	13.9	15.4	18.2
6	14.6	14.2	15.3	18.4	14.4	14.0	15.5	18.3
7	14.7	14.3	15.4	18.5	14.5	14.1	15.6	18.4
8	14.7	14.4	15.5	18.6	14.5	14.2	15.8	18.6
9	14.7	14.4	15.6	18.8	14.6	14.2	15.9	18.8
10	14.8	14.5	15.6	18.8	14.7	14.3	15.9	18.9
11	14.8	14.5	15.7	18.9	14.8	14.3	16.0	19.0
12	14.9	14.6	15.8	19.0	14.8	14.3	16.0	19.1
13	15.0	14.7	15.9	19.0	14.9	14.4	16.1	19.1
14	15.1	14.7	16.0	19.1	14.9	14.4	16.1	19.2
15	15.2	14.7	16.0	19.1	15.0	14.5	16.2	19.3
16	15.2	14.8	16.1	19.3	15.0	14.5	16.3	19.3
17	15.2	14.8	16.1	19.4	15.0	14.6	16.4	19.3
18	15.3	14.8	16.2	19.5	15.1	14.6	16.6	19.4
19	15.3	14.9	16.2	19.5	15.1	14.6	16.6	19.4
20	15.3	14.9	16.3	19.5	15.2	14.7	16.7	19.4
21	15.3	14.9	16.3	19.6	15.2	14.8	16.7	19.5
22	15.4	15.0	16.4	19.6	15.2	14.8	16.9	19.6
23	15.4	15.0	16.5	19.7	15.2	14.9	17.0	19.6
24	15.5	15.0	16.5	19.8	15.3	14.9	17.0	19.7
25	15.5	15.0	16.6	19.8	15.3	14.9	17.1	19.7
26	15.5	15.1	16.6	19.9	15.3	15.0	17.1	19.9
27	15.6	15.1	16.7	19.9	15.3	15.0	17.1	20.0
28	15.6	15.1	16.7	19.9	15.3	15.0	17.2	20.0
29	15.6	15.1	16.8	20.0	15.3	15.0	17.2	20.2
30	15.6	15.2	16.8	20.0	15.4	15.1	17.2	20.3
31	15.7	15.2	16.9	20.1	15.4	15.1	17.3	20.3
32	15.7	15.2	17.0	20.1	15.4	15.1	17.4	20.4
33	15.7	15.3	17.1	20.2	15.4	15.2	17.5	20.4
34	15.7	15.3	17.1	20.3	15.4	15.2	17.6	20.4
35	15.7	15.3	17.2	20.3	15.4	15.2	17.6	20.5
36	15.7	15.4	17.2	20.4	15.5	15.3	17.6	20.5
37	15.8	15.4	17.3	20.4	15.5	15.3	17.7	20.6
38	15.8	15.4	17.3	20.5	15.5	15.3	17.8	20.6
39	15.8	15.4	17.4	20.5	15.5	15.4	17.8	20.7
40	15.8	15.5	17.4	20.6	15.5	15.4	17.9	20.9
41	15.8	15.5	17.5	20.6	15.6	15.5	18.0	21.0
42	15.8	15.5	17.5	20.7	15.6	15.5	18.0	21.1
43	15.9	15.5	17.6	20.7	15.6	15.5	18.1	21.2
44	15.9	15.5	17.6	20.8	15.6	15.6	18.2	21.2
45	15.9	15.6	17.7	20.8	15.7	15.6	18.2	21.3
46	15.9	15.6	17.8	20.9	15.7	15.6	18.3	21.3
47	15.9	15.6	17.8	21.0	15.7	15.6	18.3	21.4
48	16.0	15.6	17.9	21.0	15.7	15.7	18.4	21.4
49	16.0	15.7	17.9	21.0	15.8	15.7	18.5	21.5
50	16.0	15.7	18.0	21.1	15.8	15.7	18.5	21.5
51	16.0	15.7	18.0	21.2	15.8	15.7	18.6	21.6

52	16.0	15.8	18.1	21.3	15.9	15.8	18.8	21.6
53	16.0	15.8	18.1	21.3	15.9	15.8	18.9	21.6
54	16.1	15.8	18.2	21.4	15.9	15.8	18.9	21.6
55	16.1	15.8	18.2	21.4	15.9	15.8	19.0	21.7
56	16.1	15.9	18.3	21.5	16.0	15.9	19.0	21.7
57	16.1	15.9	18.3	21.5	16.0	15.9	19.1	21.7
58	16.1	15.9	18.4	21.6	16.0	16.0	19.1	21.8
59	16.1	15.9	18.5	21.7	16.1	16.0	19.2	21.9
60	16.2	16.0	18.5	21.8	16.1	16.0	19.3	22.0
61	16.2	16.0	18.6	21.8	16.1	16.1	19.4	22.1
62	16.2	16.0	18.6	21.9	16.1	16.1	19.4	22.1
63	16.2	16.0	18.7	21.9	16.1	16.1	19.5	22.1
64	16.3	16.1	18.7	21.9	16.2	16.1	19.5	22.2
65	16.3	16.1	18.8	22.0	16.2	16.1	19.6	22.2
66	16.3	16.1	18.9	22.0	16.2	16.2	19.7	22.3
67	16.4	16.2	19.0	22.1	16.2	16.2	19.7	22.4
68	16.4	16.2	19.1	22.2	16.3	16.2	19.8	22.5
69	16.5	16.2	19.1	22.2	16.3	16.3	19.8	22.6
70	16.5	16.2	19.2	22.3	16.3	16.3	19.9	22.7
71	16.5	16.3	19.2	22.3	16.3	16.3	20.0	22.7
72	16.5	16.3	19.3	22.4	16.4	16.4	20.1	22.8
73	16.5	16.3	19.4	22.4	16.4	16.4	20.2	22.8
74	16.6	16.4	19.5	22.5	16.4	16.4	20.2	22.9
75	16.6	16.4	19.5	22.6	16.5	16.4	20.3	23.0
76	16.6	16.5	19.6	22.8	16.5	16.5	20.4	23.1
77	16.6	16.5	19.7	22.9	16.5	16.5	20.5	23.1
78	16.7	16.6	19.7	22.9	16.5	16.5	20.6	23.2
79	16.7	16.6	19.8	23.0	16.6	16.6	20.6	23.3
80	16.7	16.6	19.9	23.1	16.6	16.6	20.7	23.4
81	16.8	16.7	19.9	23.2	16.6	16.6	20.7	23.5
82	16.8	16.7	20.0	23.3	16.7	16.7	20.8	23.6
83	16.8	16.7	20.1	23.4	16.7	16.7	20.9	23.7
84	16.8	16.7	20.3	23.5	16.7	16.8	21.0	23.7
85	16.9	16.8	20.3	23.6	16.7	16.8	21.0	23.8
86	16.9	16.8	20.6	23.7	16.8	16.9	21.2	23.9
87	16.9	16.9	20.7	23.8	16.8	17.0	21.4	23.9
88	16.9	16.9	20.8	23.9	16.8	17.1	21.5	24.0
89	17.0	17.0	21.0	24.1	16.8	17.2	21.7	24.1
90	17.0	17.2	21.1	24.2	16.9	17.2	21.9	24.1
91	17.0	17.3	21.2	24.2	16.9	17.3	22.0	24.2
92	17.0	17.3	21.3	24.3	16.9	17.4	22.1	24.4
93	17.1	17.4	21.5	24.4	17.0	17.6	22.2	24.5
94	17.1	17.5	21.6	24.5	17.0	17.8	22.3	24.5
95	17.2	17.6	21.7	24.7	17.1	17.9	22.5	24.6
96	17.3	17.8	21.8	24.8	17.1	18.1	22.6	24.8
97	17.4	18.0	21.9	24.9	17.2	18.3	22.7	24.9
98	17.5	18.2	22.0	25.1	17.5	18.6	23.0	25.0
99	17.6	18.5	22.1	25.5	17.6	18.7	23.1	25.1

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-3c BMI Percentiles for Children with Overweight by Sex and Age Group, NHANES 2015-2018

%tile	Boys, Age (y)				Girls, Age (y)			
	2-3 y	4-8 y	9-13 y	14-18 y	2-3 y	4-8 y	9-13 y	14-18 y
1			19.2				19.3	
2	17.0		19.3	23.2	16.9	16.8	20.0	
3	17.0		19.5	23.3	17.0	16.9	20.2	
4	17.0	16.9	19.5	23.3	17.0	16.9	20.3	
5	17.0	17.0	19.6	23.4	17.1	16.9	20.4	
6	17.0	17.0	19.6	23.5	17.1	17.0	20.6	23.8
7	17.1	17.1	19.7	23.6	17.1	17.0	20.7	24.0
8	17.1	17.1	19.7	23.7	17.1	17.0	20.7	24.2
9	17.1	17.1	19.8	23.7	17.2	17.0	20.8	24.3
10	17.1	17.2	19.8	23.8	17.2	17.1	20.9	24.4
11	17.1	17.2	19.9	23.8	17.2	17.1	21.0	24.5
12	17.1	17.2	19.9	23.8	17.2	17.2	21.0	24.6
13	17.1	17.2	19.9	23.9	17.2	17.2	21.1	24.8
14	17.1	17.2	19.9	23.9	17.3	17.2	21.1	24.9
15	17.1	17.3	20.0	23.9	17.3	17.3	21.1	24.9
16	17.1	17.3	20.2	24.0	17.3	17.3	21.1	25.0
17	17.2	17.3	20.2	24.1	17.3	17.3	21.2	25.0
18	17.2	17.3	20.3	24.1	17.3	17.3	21.3	25.0
19	17.2	17.3	20.3	24.2	17.3	17.3	21.3	25.1
20	17.2	17.4	20.4	24.2	17.3	17.3	21.3	25.1
21	17.2	17.4	20.4	24.2	17.3	17.4	21.3	25.2
22	17.3	17.4	20.4	24.3	17.3	17.4	21.4	25.2
23	17.3	17.4	20.5	24.3	17.3	17.4	21.4	25.2
24	17.3	17.4	20.5	24.3	17.4	17.4	21.4	25.3
25	17.3	17.4	20.6	24.4	17.4	17.4	21.5	25.3
26	17.3	17.4	20.7	24.4	17.4	17.4	21.6	25.3
27	17.3	17.5	20.8	24.4	17.4	17.4	21.7	25.3
28	17.3	17.5	20.9	24.5	17.4	17.4	21.7	25.4
29	17.4	17.5	20.9	24.5	17.4	17.5	21.8	25.5
30	17.4	17.5	20.9	24.6	17.4	17.5	21.8	25.6
31	17.4	17.5	21.0	24.6	17.4	17.5	21.8	25.6
32	17.4	17.5	21.0	24.6	17.4	17.6	21.8	25.7
33	17.4	17.5	21.1	24.7	17.4	17.6	21.9	25.8
34	17.4	17.6	21.1	24.8	17.4	17.7	22.0	25.8
35	17.4	17.6	21.2	24.9	17.5	17.7	22.0	25.9
36	17.4	17.6	21.2	25.1	17.5	17.7	22.1	25.9
37	17.4	17.6	21.3	25.2	17.5	17.7	22.2	25.9
38	17.5	17.7	21.3	25.2	17.5	17.8	22.3	26.0
39	17.5	17.7	21.3	25.2	17.5	17.8	22.4	26.0
40	17.5	17.7	21.3	25.3	17.5	17.8	22.4	26.0
41	17.5	17.7	21.4	25.3	17.5	17.9	22.5	26.1
42	17.5	17.7	21.4	25.3	17.5	17.9	22.6	26.1
43	17.5	17.7	21.4	25.4	17.5	17.9	22.7	26.1
44	17.5	17.7	21.5	25.4	17.6	17.9	22.8	26.2
45	17.5	17.8	21.5	25.5	17.6	17.9	22.8	26.2
46	17.5	17.8	21.5	25.6	17.6	18.0	22.9	26.3
47	17.6	17.8	21.6	25.6	17.6	18.0	22.9	26.3
48	17.6	17.8	21.6	25.7	17.6	18.0	22.9	26.4
49	17.6	17.8	21.6	25.7	17.6	18.0	22.9	26.4
50	17.6	17.8	21.6	25.8	17.6	18.0	23.0	26.5
51	17.6	17.8	21.7	25.8	17.6	18.0	23.0	26.5

52	17.6	17.9	21.7	25.8	17.7	18.1	23.1	26.6
53	17.6	17.9	21.7	25.8	17.7	18.1	23.1	26.6
54	17.6	18.0	21.8	25.9	17.7	18.1	23.1	26.7
55	17.6	18.0	21.8	25.9	17.7	18.2	23.2	26.7
56	17.6	18.0	21.9	25.9	17.7	18.2	23.2	26.7
57	17.7	18.0	21.9	26.0	17.7	18.3	23.3	26.8
58	17.7	18.1	22.0	26.0	17.7	18.3	23.4	26.8
59	17.7	18.1	22.0	26.1	17.8	18.3	23.5	26.8
60	17.7	18.1	22.1	26.1	17.8	18.4	23.6	26.9
61	17.7	18.1	22.1	26.1	17.8	18.4	23.6	26.9
62	17.7	18.2	22.2	26.2	17.8	18.5	23.6	27.0
63	17.8	18.2	22.2	26.2	17.8	18.6	23.7	27.0
64	17.8	18.2	22.3	26.2	17.8	18.6	23.7	27.1
65	17.8	18.3	22.3	26.2	17.8	18.6	23.7	27.1
66	17.8	18.3	22.4	26.2	17.8	18.7	23.8	27.2
67	17.9	18.4	22.4	26.2	17.8	18.7	23.9	27.3
68	17.9	18.4	22.5	26.3	17.8	18.7	23.9	27.4
69	17.9	18.5	22.5	26.3	17.9	18.8	24.0	27.4
70	17.9	18.5	22.5	26.4	17.9	18.8	24.0	27.5
71	17.9	18.6	22.6	26.4	17.9	18.8	24.0	27.6
72	18.0	18.7	22.6	26.5	17.9	18.9	24.1	27.6
73	18.0	18.7	22.7	26.6	17.9	18.9	24.1	27.7
74	18.0	18.8	22.8	26.6	17.9	18.9	24.2	27.7
75	18.0	18.8	22.9	26.6	17.9	19.0	24.2	27.8
76	18.0	18.9	23.0	26.7	17.9	19.0	24.3	27.8
77	18.1	19.0	23.1	26.7	17.9	19.0	24.3	27.9
78	18.1	19.0	23.3	26.7	17.9	19.1	24.4	28.0
79	18.2	19.0	23.4	26.8	17.9	19.1	24.4	28.1
80	18.2	19.0	23.4	26.8	17.9	19.2	24.5	28.2
81	18.3	19.1	23.4	26.8	17.9	19.2	24.5	28.3
82	18.3	19.1	23.5	26.8	18.0	19.3	24.6	28.5
83	18.3	19.1	23.5	26.8	18.0	19.3	24.6	28.6
84	18.3	19.2	23.5	26.9	18.0	19.4	24.6	28.7
85	18.3	19.3	23.8	26.9	18.0	19.5	24.7	28.8
86	18.4	19.4	23.9	26.9	18.0	19.6	24.8	28.8
87	18.4	19.4	23.9	27.0	18.0	19.7	25.0	28.9
88	18.4	19.5	24.0	27.1	18.0	19.8	25.0	28.9
89	18.4	19.5	24.0	27.2	18.0	19.9	25.1	29.0
90	18.4	19.6	24.0	27.2	18.1	20.0	25.2	29.0
91	18.4	19.6	24.1	27.3	18.1	20.0	25.5	29.0
92	18.4	19.6	24.1	27.4	18.1	20.1	25.7	29.0
93	18.5	19.7	24.2	27.4	18.1	20.1	25.8	29.1
94	18.5	19.8	24.2	27.4	18.2	20.1	25.9	29.1
95	18.5	19.9	24.3	27.5	18.2	20.2	26.0	29.1
96	18.5	19.9	24.4	27.5	18.2	20.2	26.0	29.2
97	18.6	20.0	24.5	27.6	18.2	20.3	26.1	29.2
98		20.1	24.6	27.7	18.3	20.5	26.1	29.4
99		20.4	25.0	28.0	18.3	20.7	26.2	29.5

blank cell = Percentile not calculated using SUDAAN due to small sample size

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-3d BMI Percentiles for Children with Obesity by Age and Sex group, NHANES 2015-2018

%tile	Boys, Age (y)				Girls, Age (y)			
	2-3 y	4-8 y	9-13 y	14-18 y	2-3 y	4-8 y	9-13 y	14-18 y
1		17.9	21.8				22.5	27.7
2		18.0	21.9	27.1	0.0	18.2	22.9	27.9
3		18.0	22.2	27.6	18.2	18.3	23.3	28.0
4		18.1	22.6	27.7	18.2	18.4	23.4	28.2
5		18.1	23.0	27.9	18.3	18.5	23.6	28.5
6	18.1	18.2	23.2	28.1	18.3	18.5	23.8	28.7
7	18.1	18.2	23.3	28.1	18.3	18.6	23.9	29.2
8	18.2	18.3	23.4	28.2	18.3	18.6	24.1	29.5
9	18.2	18.4	23.5	28.2	18.3	18.6	24.2	29.6
10	18.2	18.4	23.7	28.3	18.3	18.6	24.3	29.7
11	18.2	18.5	23.8	28.4	18.4	18.6	24.3	29.8
12	18.2	18.7	23.8	28.5	18.4	18.7	24.4	29.8
13	18.2	18.9	23.9	28.6	18.4	18.7	24.5	29.9
14	18.2	19.0	24.1	28.7	18.4	18.7	24.6	30.0
15	18.3	19.2	24.2	28.7	18.4	18.8	24.7	30.0
16	18.3	19.2	24.3	28.8	18.4	18.8	24.8	30.1
17	18.3	19.3	24.4	29.1	18.4	18.9	25.0	30.3
18	18.3	19.4	24.5	29.3	18.4	19.0	25.1	30.3
19	18.3	19.4	24.5	29.3	18.4	19.1	25.2	30.4
20	18.4	19.5	24.6	29.5	18.5	19.2	25.3	30.4
21	18.5	19.6	24.6	29.5	18.5	19.3	25.5	30.5
22	18.5	19.7	24.7	29.5	18.5	19.3	25.6	30.6
23	18.6	19.8	24.8	29.6	18.5	19.4	25.8	30.6
24	18.6	19.9	24.9	29.6	18.5	19.5	25.9	30.7
25	18.7	19.9	25.0	29.6	18.5	19.6	26.0	30.8
26	18.7	20.0	25.1	29.7	18.5	19.6	26.1	30.9
27	18.8	20.0	25.4	29.8	18.6	19.7	26.1	30.9
28	18.8	20.1	25.4	29.9	18.6	19.8	26.2	31.0
29	18.9	20.1	25.5	30.0	18.6	19.8	26.2	31.0
30	19.0	20.2	25.5	30.0	18.6	19.9	26.3	31.1
31	19.0	20.2	25.6	30.1	18.6	20.0	26.3	31.2
32	19.1	20.3	25.6	30.2	18.6	20.1	26.4	31.2
33	19.1	20.3	25.7	30.3	18.6	20.2	26.4	31.3
34	19.2	20.4	25.7	30.4	18.6	20.2	26.5	31.4
35	19.3	20.4	25.8	30.5	18.6	20.4	26.6	31.4
36	19.3	20.5	25.8	30.6	18.6	20.6	26.7	31.5
37	19.4	20.5	25.9	30.8	18.6	20.7	26.8	31.6
38	19.4	20.6	26.0	30.8	18.6	20.8	26.9	31.8
39	19.4	20.6	26.1	30.9	18.7	20.8	27.0	32.0
40	19.4	20.7	26.2	31.1	18.7	20.9	27.1	32.1
41	19.4	20.8	26.3	31.2	18.7	20.9	27.2	32.2
42	19.5	20.8	26.3	31.2	18.7	21.0	27.3	32.3

43	19.5	20.9	26.4	31.3	18.7	21.0	27.4	32.3
44	19.5	21.0	26.4	31.3	18.7	21.1	27.6	32.3
45	19.5	21.0	26.5	31.4	18.7	21.1	27.8	32.4
46	19.5	21.1	26.6	31.5	18.7	21.1	27.9	32.5
47	19.5	21.1	26.7	31.6	18.7	21.1	27.9	32.6
48	19.6	21.2	26.7	31.8	18.7	21.2	28.0	32.7
49	19.6	21.2	26.8	31.9	18.7	21.2	28.0	32.8
50	19.6	21.2	27.0	32.0	18.7	21.3	28.1	32.8
51	19.6	21.3	27.1	32.1	18.7	21.4	28.1	32.9
52	19.6	21.4	27.2	32.3	18.8	21.5	28.2	32.9
53	19.6	21.5	27.3	32.4	18.8	21.6	28.2	33.0
54	19.6	21.5	27.4	32.5	18.8	21.6	28.2	33.2
55	19.7	21.6	27.4	32.7	18.8	21.7	28.3	33.3
56	19.7	21.7	27.5	32.8	18.8	21.7	28.3	33.4
57	19.7	21.8	27.7	32.9	18.8	21.9	28.3	33.6
58	19.7	21.9	27.8	32.9	18.9	22.0	28.4	33.7
59	19.7	22.0	27.8	33.0	18.9	22.1	28.5	33.9
60	19.7	22.1	28.0	33.1	19.0	22.2	28.6	34.1
61	19.7	22.1	28.0	33.2	19.0	22.3	28.6	34.4
62	19.8	22.2	28.1	33.3	19.0	22.4	28.7	34.6
63	19.8	22.2	28.3	33.7	19.0	22.4	28.9	34.9
64	19.8	22.3	28.4	33.9	19.0	22.5	29.0	35.0
65	19.9	22.5	28.5	34.0	19.1	22.5	29.1	35.0
66	19.9	22.6	28.6	34.0	19.1	22.6	29.1	35.1
67	20.0	22.6	28.7	34.1	19.1	22.7	29.2	35.2
68	20.0	22.7	28.8	34.1	19.1	22.8	29.3	35.6
69	20.1	22.9	29.0	34.4	19.1	22.9	29.5	36.0
70	20.1	23.0	29.2	34.6	19.2	22.9	29.6	36.4
71	20.2	23.0	29.4	34.8	19.2	23.0	29.7	36.5
72	20.5	23.1	29.6	34.9	19.3	23.1	29.8	36.6
73	20.6	23.3	29.8	35.0	19.3	23.2	30.0	37.0
74	20.8	23.3	29.9	35.1	19.3	23.3	30.1	37.4
75	21.0	23.4	29.9	35.4	19.3	23.4	30.3	37.7
76	21.2	23.6	30.1	35.8	19.3	23.4	30.5	38.1
77	21.5	23.6	30.2	36.1	19.3	23.6	30.6	38.2
78	22.2	23.7	30.6	36.2	19.4	23.9	30.7	38.5
79	22.3	24.0	30.6	37.2	19.4	24.2	30.8	38.6
80	22.5	24.2	30.7	37.8	19.4	24.3	30.9	38.7
81	22.7	24.6	30.8	38.5	19.4	24.4	31.0	39.1
82	22.8	24.7	31.0	38.9	19.4	24.6	31.2	39.2
83	23.0	24.8	31.2	39.2	19.5	24.7	31.3	39.3
84	23.3	25.0	31.8	39.5	19.7	24.8	31.4	40.2
85	23.4	25.1	32.0	39.9	19.7	25.1	31.5	40.5
86	23.4	25.2	32.1	40.1	19.8	25.1	31.6	40.8
87	23.4	25.3	32.2	40.2	19.8	25.2	31.9	41.1
88	23.5	25.4	32.9	40.6	20.0	25.3	32.3	41.7
89	23.5	25.6	33.1	40.9	20.2	25.5	33.1	42.4

90	23.6	25.7	33.2	41.8	20.5	25.7	33.5	42.8
91	23.8	25.7	33.3	42.5	20.5	26.1	33.5	43.0
92	24.4	25.9	33.8	43.0	20.5	26.8	33.6	43.2
93	25.4	26.1	34.1	43.1	20.6	26.9	34.3	43.5
94	25.9	26.4	35.0	44.2	20.6	27.0	34.8	44.0
95	26.4	26.6	36.4	44.7	20.6	27.3	35.7	44.6
96	27.0	27.3	36.9	45.8	20.7	27.8	36.4	45.2
97		27.5	38.3	46.9	20.7	28.9	37.8	45.8
98		27.8	39.5	47.4		30.6	40.0	46.5
99		28.9	40.3	49.4		31.7	40.7	51.1

Blank cell = Percentile not calculated using SUDAAN due to small sample size

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-4 BMI Percentiles 1-99 for Men and Women by Age Group, NHANES 2015-2018

%tile	Men					Women				
	19-30	31-50	51-70	>70	19+	19-30	31-50	51-70	>70	19+
1	17.0	19.0	18.5	18.8	18.2	16.7	18.3	17.9	18.5	17.8
2	17.7	20.3	19.8	19.6	18.9	17.7	19.0	18.7	19.5	18.6
3	18.3	21.1	21.1	20.2	19.6	18.1	19.6	19.1	19.8	19.0
4	18.6	21.5	21.7	20.3	20.2	18.5	20.1	19.4	20.0	19.5
5	18.7	21.8	22.0	20.8	20.8	18.9	20.4	20.0	20.5	19.7
6	19.0	22.1	22.2	21.1	21.1	19.0	20.6	20.4	20.7	20.1
7	19.4	22.4	22.4	21.4	21.5	19.2	21.0	20.9	20.8	20.3
8	19.7	22.7	22.5	21.8	21.8	19.5	21.3	21.3	21.1	20.6
9	19.9	23.0	22.7	22.2	22.1	19.7	21.5	21.6	21.4	20.9
10	20.3	23.2	22.9	22.4	22.3	19.8	21.7	22.0	21.6	21.2
11	20.5	23.4	23.1	22.6	22.4	20.0	21.8	22.1	21.8	21.4
12	20.7	23.6	23.2	22.9	22.6	20.2	22.0	22.3	22.0	21.6
13	20.8	23.8	23.5	23.1	22.8	20.3	22.2	22.5	22.2	21.8
14	21.0	24.0	23.8	23.3	23.0	20.4	22.3	22.7	22.5	22.0
15	21.1	24.1	23.9	23.4	23.2	20.6	22.4	23.1	22.7	22.1
16	21.4	24.4	24.0	23.6	23.4	20.8	22.6	23.2	22.9	22.3
17	21.6	24.7	24.2	23.9	23.6	21.0	22.8	23.3	23.1	22.5
18	21.8	24.8	24.5	24.0	23.8	21.1	23.0	23.5	23.3	22.6
19	21.9	24.9	24.7	24.1	24.0	21.2	23.1	23.6	23.4	22.9
20	22.2	25.1	24.8	24.3	24.1	21.4	23.3	23.8	23.7	23.1
21	22.3	25.2	25.0	24.7	24.3	21.5	23.5	24.0	23.8	23.2
22	22.4	25.4	25.1	24.9	24.5	21.7	23.6	24.1	24.0	23.4
23	22.5	25.5	25.2	25.1	24.7	21.8	23.7	24.2	24.2	23.5
24	22.6	25.7	25.4	25.2	24.8	21.9	24.0	24.4	24.5	23.7
25	22.7	25.8	25.5	25.3	25.0	22.0	24.2	24.6	24.7	23.9
26	22.9	25.9	25.7	25.4	25.1	22.1	24.4	24.9	24.8	24.1
27	23.0	26.1	26.0	25.6	25.2	22.2	24.5	25.0	25.1	24.3
28	23.2	26.2	26.1	25.7	25.4	22.4	24.7	25.2	25.2	24.5
29	23.5	26.4	26.2	25.8	25.6	22.6	24.8	25.3	25.3	24.6
30	23.6	26.5	26.4	25.9	25.7	22.7	25.0	25.4	25.4	24.8
31	23.7	26.6	26.6	26.0	25.9	22.8	25.2	25.6	25.5	25.0
32	23.8	26.8	26.7	26.0	26.1	23.0	25.4	25.8	25.6	25.1
33	24.0	26.9	26.7	26.1	26.2	23.2	25.6	26.0	25.8	25.3
34	24.1	27.0	26.8	26.2	26.3	23.4	25.8	26.2	25.9	25.5
35	24.2	27.2	27.0	26.3	26.5	23.6	26.0	26.3	26.0	25.6
36	24.3	27.3	27.1	26.4	26.6	23.7	26.2	26.4	26.1	25.8
37	24.4	27.4	27.3	26.5	26.7	24.0	26.4	26.5	26.4	26.0
38	24.5	27.5	27.4	26.6	26.8	24.2	26.6	26.8	26.6	26.2
39	24.6	27.7	27.6	26.7	26.9	24.4	26.7	27.0	26.8	26.4
40	24.8	27.8	27.7	26.7	27.1	24.6	26.9	27.2	26.9	26.5
41	25.0	27.9	27.8	26.8	27.2	24.8	27.0	27.3	27.0	26.7
42	25.1	28.0	27.8	26.9	27.4	25.0	27.2	27.5	27.2	26.9
43	25.2	28.1	28.0	27.1	27.5	25.1	27.5	27.7	27.4	27.0
44	25.5	28.4	28.1	27.2	27.6	25.3	27.7	27.9	27.5	27.2
45	25.6	28.5	28.2	27.4	27.7	25.5	27.9	28.1	27.6	27.4
46	25.9	28.6	28.4	27.5	27.8	25.7	28.1	28.2	27.7	27.6
47	26.1	28.7	28.5	27.6	27.9	25.9	28.3	28.4	27.8	27.8
48	26.3	28.9	28.7	27.7	28.1	26.1	28.4	28.7	28.0	28.0
49	26.5	29.0	28.8	27.9	28.3	26.2	28.5	28.9	28.2	28.2

50	26.5	29.1	28.9	28.0	28.4	26.3	28.7	29.1	28.3	28.3
51	26.6	29.1	29.0	28.1	28.6	26.5	28.9	29.2	28.4	28.5
52	26.8	29.3	29.1	28.2	28.7	26.7	29.0	29.3	28.5	28.7
53	26.9	29.4	29.2	28.3	28.9	26.9	29.1	29.5	28.6	28.9
54	27.0	29.5	29.4	28.4	29.0	27.1	29.3	29.8	28.8	29.0
55	27.2	29.7	29.5	28.6	29.1	27.4	29.5	30.0	28.9	29.2
56	27.4	29.8	29.6	28.7	29.3	27.7	29.8	30.2	29.0	29.4
57	27.5	30.0	29.8	28.8	29.4	27.8	30.0	30.5	29.1	29.6
58	27.6	30.1	30.0	28.9	29.6	28.1	30.3	30.6	29.3	29.9
59	27.8	30.3	30.2	29.1	29.7	28.3	30.6	30.8	29.5	30.1
60	27.9	30.4	30.4	29.3	29.9	28.4	30.8	31.1	29.7	30.3
61	28.2	30.6	30.5	29.5	30.1	28.7	31.0	31.3	29.9	30.5
62	28.4	30.8	30.7	29.7	30.3	29.0	31.2	31.5	30.0	30.7
63	28.7	30.9	30.9	29.8	30.5	29.2	31.5	31.7	30.1	31.0
64	28.9	31.1	31.0	30.0	30.7	29.6	31.7	31.8	30.2	31.2
65	29.2	31.3	31.1	30.2	30.8	29.9	32.0	31.9	30.4	31.5
66	29.5	31.5	31.2	30.3	31.0	30.3	32.3	32.1	30.5	31.7
67	29.8	31.8	31.3	30.6	31.1	30.5	32.5	32.3	30.7	31.8
68	30.0	32.0	31.5	30.8	31.3	30.9	32.7	32.7	30.8	32.0
69	30.3	32.1	31.7	31.0	31.5	31.4	33.0	33.0	30.9	32.3
70	30.6	32.3	31.8	31.1	31.7	31.6	33.3	33.2	31.1	32.6
71	30.8	32.5	31.9	31.3	31.9	31.9	33.5	33.4	31.2	32.8
72	31.0	32.7	32.2	31.4	32.1	32.0	33.8	33.7	31.4	33.2
73	31.2	32.8	32.4	31.6	32.3	32.2	34.3	33.9	31.7	33.4
74	31.5	33.0	32.8	31.7	32.5	32.5	34.6	34.2	31.9	33.6
75	31.7	33.3	33.0	31.9	32.7	32.8	34.8	34.5	32.2	33.9
76	32.0	33.5	33.3	32.1	32.9	33.0	35.1	34.7	32.7	34.2
77	32.2	33.7	33.4	32.4	33.2	33.4	35.4	35.1	32.9	34.6
78	32.6	34.0	33.6	32.6	33.4	33.6	35.8	35.4	33.2	34.8
79	32.7	34.2	33.8	32.8	33.6	33.9	36.1	35.7	33.4	35.2
80	32.9	34.5	34.0	33.0	33.9	34.4	36.6	35.8	33.5	35.5
81	33.2	34.9	34.2	33.3	34.1	35.0	37.2	36.1	33.6	35.8
82	33.6	35.3	34.4	33.4	34.3	35.4	37.6	36.4	33.9	36.1
83	33.8	35.6	34.8	33.5	34.6	35.6	38.1	36.9	34.2	36.6
84	34.2	36.0	35.0	33.8	34.9	36.2	38.7	37.2	34.6	37.1
85	34.4	36.3	35.3	33.9	35.2	36.7	39.1	37.6	35.1	37.5
86	34.6	36.5	35.5	34.0	35.5	37.2	39.5	38.0	35.3	37.9
87	34.9	36.8	35.8	34.5	35.8	37.8	40.2	38.6	35.6	38.5
88	35.2	37.2	36.1	34.6	36.3	38.1	40.6	39.0	35.8	38.9
89	35.8	37.9	36.4	35.0	36.7	38.6	41.6	39.3	36.3	39.4
90	36.7	38.5	37.0	35.2	37.1	38.9	42.4	40.3	36.6	40.2
91	37.1	39.4	37.4	35.3	37.6	39.6	43.1	41.0	36.9	41.0
92	37.8	40.0	38.3	35.6	38.4	40.7	43.6	41.8	37.7	41.9
93	38.6	40.5	39.1	36.2	39.2	41.6	44.4	42.6	38.3	42.7
94	38.9	41.7	39.5	36.4	40.0	42.4	45.1	43.0	39.3	43.4
95	39.6	42.1	41.1	36.8	41.0	43.2	46.4	44.2	40.1	44.4
96	42.0	43.5	41.9	37.2	42.1	43.8	47.3	45.3	41.9	45.5
97	43.7	44.0	43.2	38.2	43.6	45.3	48.9	48.1	44.2	47.7
98	45.0	46.4	44.9	40.2	45.0	47.7	52.1	49.6	45.9	49.3
99	50.0	50.8	47.9	41.4	49.7	52.5	56.5	54.7	48.3	54.6

Note: Pregnant and lactating and women excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-5 Body Mass Index (kg/m²), Mean and Percentiles with Standard Errors, Canada, CHMS 2012-2019

Sex	Age	N	Mean	p1	p2	p3	p4	p5	p6	p7	p8	p9
Male	3 years	340	16.2(0.2)		13.9(0.1)	13.9(0.1)	14.0(0.2)	14.2(0.2)	14.2(0.2)	14.3(0.2)	14.3(0.2)	14.3(0.2)
Male	4-8 years	1717	16.2(0.1)	13.1(0.2)	13.3(0.1)	13.4(0.1)	13.5(0.1)	13.7(0.1)	13.8(0.1)	13.9(0.1)	14.1(0.1)	14.1(0.1)
Male	9-13 years	1704	19.2(0.1)	13.8(0.2)	14.1(0.2)	14.4(0.1)	14.4(0.1)	14.7(0.1)	14.8(0.1)	14.9(0.1)	15.1(0.1)	15.1(0.1)
Male	14-18 years	1241	23.7(0.4)	16.0(0.5)	16.5(0.3)	16.8(0.2)	17.0(0.2)	17.5(0.2)	17.6(0.2)	17.7(0.2)	18.0(0.2)	18.0(0.1)
Female	3 years	353	16.2(0.2)		13.7(0.1)	13.8(0.1)	13.9(0.1)	14.1(0.1)	14.2(0.1)	14.2(0.1)	14.3(0.1)	14.4(0.1)
Female	4-8 years	1724	16.3(0.1)	12.9(0.1)	13.2(0.1)	13.5(0.1)	13.6(0.1)	13.7(0.1)	13.8(0.1)	13.8(0.1)	13.9(0.1)	14.1(0.1)
Female	9-13 years	1705	19.2(0.2)	13.2(0.4)	13.6(0.1)	13.9(0.2)	14.2(0.2)	14.3(0.2)	14.5(0.2)	14.7(0.2)	14.8(0.2)	14.9(0.2)
Female	14-18 years	1235	22.8(0.2)	15.8(0.5)	16.4(0.5)	16.8(0.3)	16.9(0.3)	17.2(0.2)	17.4(0.2)	17.6(0.2)	17.7(0.2)	17.9(0.2)
Male	19-30 years	952	26.1(0.3)	17.7(0.3)	18.1(0.4)	18.9(0.3)	19.3(0.3)	19.6(0.3)	19.8(0.2)	19.9(0.2)	20.0(0.2)	20.3(0.2)
Male	31-50 years	2826	27.8(0.3)	18.6(0.4)	19.6(0.4)	20.1(0.3)	20.3(0.2)	20.6(0.2)	20.8(0.3)	21.2(0.3)	21.5(0.3)	21.7(0.3)
Male	51-70 years	2126	28.4(0.2)	19.9(0.3)	20.7(0.3)	21.1(0.3)	21.5(0.3)	21.9(0.3)	22.1(0.3)	22.7(0.3)	23.0(0.2)	23.2(0.2)
Male	71 to 79 years	560	28.2(0.2)	19.0(0.7)	19.8(0.7)	20.4(0.6)	21.6(0.5)	22.1(0.5)	22.5(0.5)	22.8(0.5)	23.1(0.4)	23.3(0.4)
Male	19 years and over	6464	27.7(0.1)	18.6(0.2)	19.5(0.2)	19.9(0.1)	20.3(0.1)	20.6(0.1)	20.9(0.2)	21.2(0.2)	21.5(0.2)	21.7(0.2)
Female	19-30 years	948	25.6(0.4)	16.5(0.3)	16.5(0.5)	16.9(0.6)	17.4(0.6)	18.2(0.5)	18.8(0.5)	19.0(0.5)	19.2(0.4)	19.3(0.4)
Female	31-50 years	2768	27.1(0.3)	18.1(0.6)	18.4(0.2)	18.4(0.2)	18.7(0.2)	18.9(0.3)	19.3(0.3)	19.6(0.3)	19.7(0.3)	20.1(0.3)
Female	51-70 years	2058	28.0(0.3)	17.6(1.0)	19.1(0.6)	19.4(0.3)	19.7(0.2)	19.8(0.2)	20.1(0.2)	20.3(0.2)	20.5(0.2)	20.7(0.2)
Female	71 to 79 years	671	27.7(0.3)	17.3(0.4)	19.4(0.4)	20.0(0.5)	20.1(0.5)	20.1(0.5)	20.8(0.4)	20.9(0.4)	21.2(0.4)	21.6(0.5)
Female	19 years and over	6445	27.1(0.2)	16.6(0.4)	18.2(0.3)	18.6(0.2)	19.0(0.2)	19.3(0.2)	19.6(0.2)	19.7(0.2)	19.9(0.2)	20.1(0.2)

SOURCE: Statistics Canada, Canadian Health Measures Survey (CHMS) - Cycles 3 to 6 (2012-2019)

p10	p11	p12	p13	p14	p15	p16	p17	p18	p19	p20	p21	p22	p23
14.3(0.2)	14.6(0.2)	14.7(0.1)	14.8(0.1)	14.8(0.1)	14.8(0.1)	14.8(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)
14.2(0.1)	14.3(0.1)	14.3(0.1)	14.4(0.1)	14.4(0.1)	14.5(0.1)	14.5(0.1)	14.6(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)	14.7(0.1)	14.7(0.1)	14.8(0.1)
15.2(0.1)	15.3(0.1)	15.4(0.1)	15.5(0.1)	15.7(0.1)	15.8(0.1)	15.8(0.1)	15.9(0.1)	16.0(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)	16.3(0.1)	16.3(0.1)
18.1(0.2)	18.2(0.2)	18.2(0.2)	18.4(0.2)	18.6(0.2)	18.7(0.2)	18.8(0.2)	18.9(0.2)	19.0(0.2)	19.0(0.2)	19.2(0.2)	19.2(0.2)	19.3(0.2)	19.4(0.2)
14.5(0.1)	14.5(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)	14.7(0.1)	14.8(0.1)	14.8(0.1)	14.8(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)
14.1(0.1)	14.2(0.1)	14.2(0.1)	14.3(0.1)	14.3(0.1)	14.4(0.1)	14.4(0.1)	14.5(0.1)	14.5(0.1)	14.6(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)	14.7(0.1)
15.1(0.2)	15.3(0.1)	15.4(0.1)	15.5(0.1)	15.6(0.1)	15.7(0.1)	15.7(0.1)	15.8(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.1(0.1)
18.1(0.2)	18.2(0.2)	18.3(0.2)	18.4(0.2)	18.6(0.1)	18.8(0.1)	18.8(0.2)	18.9(0.2)	19.0(0.2)	19.0(0.1)	19.2(0.1)	19.2(0.1)	19.4(0.1)	19.4(0.1)
20.5(0.2)	20.6(0.2)	20.7(0.3)	20.8(0.3)	21.0(0.3)	21.2(0.3)	21.3(0.3)	21.5(0.3)	21.6(0.3)	21.7(0.3)	22.0(0.3)	22.2(0.2)	22.3(0.2)	22.4(0.2)
21.9(0.3)	22.2(0.3)	22.4(0.3)	22.6(0.3)	22.9(0.3)	23.0(0.3)	23.2(0.3)	23.3(0.3)	23.6(0.2)	23.7(0.2)	23.9(0.2)	23.9(0.2)	24.0(0.2)	24.1(0.2)
23.3(0.2)	23.5(0.2)	23.6(0.2)	23.7(0.1)	23.8(0.1)	24.0(0.1)	24.1(0.1)	24.3(0.1)	24.3(0.1)	24.5(0.1)	24.5(0.1)	24.7(0.1)	24.7(0.2)	24.8(0.2)
23.4(0.3)	23.6(0.3)	23.8(0.3)	24.0(0.3)	24.1(0.3)	24.1(0.3)	24.2(0.3)	24.4(0.3)	24.6(0.3)	24.7(0.3)	24.9(0.3)	25.0(0.2)	25.2(0.2)	25.3(0.2)
22.0(0.2)	22.2(0.2)	22.4(0.2)	22.6(0.2)	22.7(0.2)	23.0(0.1)	23.1(0.1)	23.2(0.1)	23.4(0.1)	23.5(0.1)	23.6(0.1)	23.8(0.1)	23.9(0.1)	24.0(0.1)
19.4(0.3)	19.7(0.3)	19.7(0.3)	19.7(0.3)	19.8(0.3)	20.2(0.3)	20.3(0.4)	20.3(0.4)	20.4(0.4)	20.5(0.4)	20.6(0.4)	20.8(0.3)	21.1(0.3)	21.3(0.3)
20.2(0.3)	20.5(0.2)	20.6(0.2)	20.8(0.2)	20.8(0.2)	21.0(0.2)	21.2(0.2)	21.3(0.2)	21.3(0.2)	21.4(0.2)	21.5(0.2)	21.7(0.2)	21.9(0.2)	22.0(0.2)
21.0(0.2)	21.3(0.2)	21.5(0.2)	21.7(0.2)	21.8(0.2)	21.9(0.1)	22.1(0.1)	22.2(0.1)	22.4(0.2)	22.4(0.2)	22.5(0.2)	22.6(0.2)	22.7(0.2)	22.9(0.2)
21.8(0.5)	22.0(0.5)	22.2(0.4)	22.5(0.4)	22.8(0.4)	23.0(0.4)	23.2(0.4)	23.3(0.4)	23.4(0.4)	23.5(0.4)	23.7(0.4)	23.7(0.4)	23.9(0.4)	24.1(0.4)
20.3(0.2)	20.5(0.2)	20.6(0.2)	20.8(0.2)	21.0(0.2)	21.2(0.2)	21.3(0.2)	21.5(0.1)	21.6(0.1)	21.7(0.2)	21.8(0.2)	22.0(0.2)	22.1(0.2)	22.2(0.2)

p24	p25	p26	p27	p28	p29	p30	p31	p32	p33	p34	p35	p36	p37
15.0(0.1)	15.1(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.2(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.1)	15.4(0.1)	15.4(0.2)	15.5(0.2)	15.5(0.2)	15.5(0.2)
14.8(0.1)	14.8(0.1)	14.8(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.1(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.2(0.1)
16.3(0.1)	16.4(0.1)	16.5(0.1)	16.6(0.1)	16.7(0.1)	16.7(0.1)	16.8(0.1)	17.0(0.1)	17.0(0.1)	17.1(0.1)	17.1(0.1)	17.3(0.1)	17.3(0.1)	17.4(0.1)
19.4(0.2)	19.5(0.2)	19.7(0.2)	19.8(0.2)	19.9(0.2)	20.1(0.2)	20.2(0.2)	20.4(0.2)	20.4(0.2)	20.6(0.2)	20.8(0.2)	20.8(0.2)	20.9(0.2)	20.9(0.2)
15.0(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.1(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.1)	15.4(0.1)	15.4(0.1)	15.4(0.1)
14.8(0.1)	14.8(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.2(0.1)	15.2(0.1)	15.3(0.1)
16.2(0.1)	16.3(0.1)	16.4(0.1)	16.5(0.1)	16.5(0.1)	16.6(0.1)	16.6(0.1)	16.7(0.1)	16.7(0.1)	16.8(0.1)	16.8(0.2)	16.9(0.2)	17.0(0.2)	17.1(0.2)
19.5(0.1)	19.6(0.1)	19.7(0.1)	19.8(0.1)	19.9(0.1)	20.0(0.1)	20.0(0.1)	20.1(0.1)	20.1(0.1)	20.2(0.1)	20.2(0.1)	20.3(0.1)	20.3(0.1)	20.4(0.1)
22.4(0.2)	22.5(0.2)	22.6(0.2)	22.6(0.2)	22.7(0.2)	22.8(0.2)	23.0(0.2)	23.0(0.2)	23.1(0.2)	23.3(0.2)	23.3(0.2)	23.4(0.2)	23.4(0.2)	23.5(0.2)
24.2(0.2)	24.3(0.2)	24.5(0.2)	24.6(0.2)	24.7(0.2)	24.8(0.2)	24.9(0.2)	25.0(0.2)	25.1(0.2)	25.2(0.2)	25.2(0.2)	25.3(0.2)	25.4(0.2)	25.5(0.2)
24.9(0.2)	25.0(0.2)	25.2(0.2)	25.3(0.2)	25.5(0.2)	25.6(0.2)	25.7(0.2)	25.7(0.2)	25.8(0.2)	25.9(0.2)	26.0(0.2)	26.1(0.2)	26.2(0.2)	26.4(0.2)
25.4(0.2)	25.5(0.2)	25.6(0.2)	25.8(0.2)	25.8(0.2)	25.9(0.3)	25.9(0.3)	25.9(0.3)	25.9(0.3)	25.9(0.3)	26.0(0.2)	26.2(0.2)	26.5(0.2)	26.6(0.2)
24.1(0.1)	24.2(0.1)	24.3(0.1)	24.5(0.1)	24.6(0.1)	24.7(0.1)	24.8(0.1)	24.9(0.1)	25.0(0.1)	25.1(0.1)	25.2(0.1)	25.3(0.1)	25.4(0.1)	25.5(0.1)
21.4(0.3)	21.5(0.3)	21.6(0.3)	21.6(0.3)	21.7(0.3)	21.7(0.3)	21.9(0.3)	22.0(0.3)	22.1(0.3)	22.1(0.3)	22.3(0.3)	22.4(0.3)	22.4(0.3)	22.5(0.3)
22.1(0.2)	22.2(0.2)	22.3(0.2)	22.5(0.2)	22.6(0.2)	22.7(0.2)	22.9(0.3)	22.9(0.3)	23.1(0.3)	23.2(0.3)	23.4(0.3)	23.5(0.3)	23.8(0.3)	23.9(0.3)
23.1(0.2)	23.4(0.2)	23.5(0.3)	23.6(0.3)	23.7(0.3)	23.9(0.2)	24.0(0.2)	24.2(0.2)	24.4(0.2)	24.5(0.2)	24.6(0.2)	24.8(0.2)	24.9(0.3)	25.0(0.3)
24.2(0.4)	24.3(0.3)	24.4(0.3)	24.6(0.3)	24.7(0.3)	24.9(0.3)	25.1(0.3)	25.2(0.3)	25.3(0.3)	25.5(0.3)	25.6(0.3)	25.6(0.3)	25.8(0.3)	25.8(0.3)
22.4(0.2)	22.4(0.2)	22.5(0.2)	22.7(0.2)	22.9(0.2)	22.9(0.2)	23.1(0.2)	23.3(0.2)	23.4(0.2)	23.5(0.2)	23.7(0.2)	23.8(0.2)	23.9(0.2)	24.0(0.2)

p38	p39	p40	p41	p42	p43	p44	p45	p46	p47	p48	p49	p50	p51
15.6(0.2)	15.6(0.2)	15.7(0.2)	15.7(0.2)	15.7(0.2)	15.8(0.1)	15.8(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.1(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)
15.2(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.1)	15.4(0.1)	15.4(0.1)	15.4(0.1)	15.5(0.1)	15.5(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.7(0.1)	15.7(0.1)
17.5(0.1)	17.5(0.1)	17.5(0.1)	17.6(0.1)	17.6(0.1)	17.7(0.1)	17.7(0.1)	17.9(0.1)	18.0(0.1)	18.1(0.1)	18.2(0.1)	18.2(0.1)	18.3(0.1)	18.4(0.1)
21.0(0.2)	21.0(0.2)	21.1(0.2)	21.2(0.2)	21.2(0.2)	21.3(0.2)	21.3(0.2)	21.4(0.2)	21.5(0.2)	21.6(0.2)	21.8(0.2)	21.9(0.2)	22.0(0.2)	22.1(0.3)
15.4(0.1)	15.5(0.1)	15.5(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.7(0.1)	15.7(0.1)	15.8(0.1)	15.8(0.1)
15.3(0.1)	15.3(0.1)	15.4(0.1)	15.4(0.1)	15.5(0.1)	15.5(0.1)	15.5(0.1)	15.5(0.1)	15.6(0.1)	15.6(0.1)	15.7(0.1)	15.7(0.1)	15.7(0.1)	15.8(0.1)
17.2(0.2)	17.3(0.2)	17.4(0.2)	17.5(0.2)	17.6(0.2)	17.7(0.2)	17.8(0.2)	17.8(0.2)	17.9(0.2)	18.0(0.2)	18.1(0.2)	18.2(0.2)	18.2(0.2)	18.3(0.2)
20.6(0.1)	20.6(0.1)	20.7(0.2)	20.8(0.2)	20.8(0.2)	20.9(0.2)	21.0(0.1)	21.2(0.2)	21.3(0.2)	21.3(0.2)	21.4(0.2)	21.5(0.2)	21.6(0.2)	21.7(0.2)
23.6(0.2)	23.8(0.3)	23.9(0.3)	23.9(0.3)	24.0(0.3)	24.2(0.3)	24.3(0.3)	24.4(0.3)	24.6(0.3)	24.7(0.3)	24.8(0.3)	24.8(0.3)	25.0(0.3)	25.1(0.3)
25.6(0.2)	25.7(0.2)	25.8(0.2)	26.0(0.2)	26.1(0.2)	26.1(0.2)	26.2(0.2)	26.4(0.2)	26.5(0.2)	26.6(0.2)	26.6(0.2)	26.7(0.2)	26.8(0.2)	27.0(0.2)
26.5(0.2)	26.6(0.2)	26.8(0.2)	26.9(0.2)	27.0(0.2)	27.2(0.2)	27.2(0.2)	27.3(0.2)	27.4(0.2)	27.5(0.2)	27.6(0.2)	27.6(0.2)	27.8(0.2)	27.8(0.2)
26.7(0.3)	26.8(0.3)	26.9(0.3)	26.9(0.3)	27.0(0.3)	27.0(0.3)	27.2(0.3)	27.4(0.3)	27.5(0.3)	27.5(0.2)	27.7(0.2)	27.8(0.2)	28.0(0.3)	28.1(0.3)
25.6(0.1)	25.7(0.1)	25.8(0.1)	25.9(0.1)	26.0(0.1)	26.1(0.1)	26.2(0.1)	26.4(0.1)	26.5(0.1)	26.6(0.1)	26.7(0.1)	26.8(0.1)	26.9(0.1)	27.0(0.1)
22.6(0.3)	22.7(0.3)	22.9(0.3)	23.0(0.3)	23.0(0.3)	23.2(0.3)	23.3(0.3)	23.3(0.3)	23.5(0.3)	23.5(0.3)	23.7(0.3)	23.7(0.3)	23.8(0.4)	23.9(0.4)
24.0(0.3)	24.2(0.3)	24.2(0.3)	24.3(0.3)	24.5(0.2)	24.6(0.2)	24.7(0.2)	24.9(0.3)	25.0(0.3)	25.1(0.3)	25.2(0.3)	25.3(0.3)	25.4(0.3)	25.6(0.3)
25.1(0.2)	25.2(0.2)	25.3(0.2)	25.5(0.3)	25.7(0.3)	25.8(0.3)	25.9(0.3)	26.1(0.3)	26.3(0.3)	26.5(0.3)	26.7(0.3)	26.8(0.3)	27.0(0.3)	27.1(0.3)
25.9(0.3)	25.9(0.3)	26.0(0.3)	26.1(0.2)	26.2(0.2)	26.3(0.2)	26.5(0.2)	26.8(0.2)	26.8(0.2)	26.8(0.3)	27.0(0.3)	27.0(0.3)	27.0(0.3)	27.1(0.3)
24.2(0.2)	24.3(0.2)	24.4(0.2)	24.5(0.2)	24.7(0.2)	24.9(0.2)	25.0(0.2)	25.1(0.2)	25.2(0.2)	25.3(0.2)	25.5(0.2)	25.7(0.3)	25.8(0.3)	26.0(0.3)

p52	p53	p54	p55	p56	p57	p58	p59	p60	p61	p62	p63	p64	p65
16.2(0.1)	16.2(0.1)	16.3(0.1)	16.3(0.1)	16.3(0.1)	16.3(0.1)	16.4(0.1)	16.4(0.1)	16.5(0.1)	16.5(0.1)	16.5(0.1)	16.6(0.1)	16.6(0.1)	16.6(0.1)
15.7(0.1)	15.8(0.1)	15.8(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.0(0.1)	16.1(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)
18.5(0.1)	18.5(0.1)	18.6(0.1)	18.7(0.1)	18.7(0.1)	18.9(0.1)	19.0(0.1)	19.1(0.1)	19.1(0.1)	19.2(0.1)	19.3(0.2)	19.3(0.2)	19.4(0.2)	19.5(0.2)
22.2(0.3)	22.3(0.3)	22.4(0.3)	22.5(0.3)	22.6(0.3)	22.8(0.3)	22.9(0.3)	23.0(0.3)	23.2(0.4)	23.3(0.4)	23.5(0.4)	23.6(0.4)	23.9(0.4)	24.0(0.4)
15.8(0.1)	15.8(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.1(0.1)	16.1(0.1)	16.2(0.2)	16.2(0.2)	16.2(0.2)	16.2(0.2)	16.3(0.2)	16.3(0.2)	16.4(0.2)
15.8(0.1)	15.8(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.0(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)	16.2(0.1)	16.3(0.1)	16.4(0.1)	16.5(0.1)
18.4(0.2)	18.5(0.2)	18.5(0.2)	18.7(0.2)	18.7(0.2)	18.8(0.2)	19.0(0.2)	19.1(0.2)	19.2(0.3)	19.3(0.3)	19.4(0.3)	19.5(0.3)	19.7(0.3)	19.7(0.3)
21.7(0.2)	21.8(0.2)	21.9(0.2)	22.0(0.2)	22.1(0.2)	22.1(0.2)	22.2(0.2)	22.3(0.2)	22.3(0.2)	22.5(0.2)	22.6(0.2)	22.8(0.2)	22.9(0.2)	23.0(0.2)
25.1(0.3)	25.2(0.3)	25.3(0.3)	25.5(0.3)	25.7(0.3)	25.8(0.4)	25.9(0.4)	26.0(0.4)	26.2(0.4)	26.3(0.4)	26.6(0.4)	26.7(0.4)	26.8(0.5)	26.9(0.5)
27.0(0.2)	27.1(0.2)	27.2(0.2)	27.3(0.3)	27.4(0.3)	27.6(0.3)	27.8(0.3)	27.9(0.3)	28.0(0.3)	28.2(0.3)	28.3(0.3)	28.4(0.4)	28.7(0.4)	28.8(0.4)
27.9(0.2)	28.0(0.2)	28.1(0.2)	28.2(0.2)	28.3(0.2)	28.4(0.2)	28.5(0.2)	28.6(0.2)	28.8(0.2)	28.9(0.2)	29.0(0.2)	29.1(0.2)	29.2(0.2)	29.3(0.2)
28.1(0.3)	28.2(0.3)	28.2(0.3)	28.2(0.3)	28.3(0.3)	28.4(0.3)	28.6(0.3)	28.7(0.3)	28.8(0.3)	29.0(0.3)	29.1(0.3)	29.1(0.3)	29.2(0.3)	29.4(0.3)
27.2(0.1)	27.3(0.1)	27.4(0.1)	27.5(0.2)	27.6(0.1)	27.8(0.2)	27.8(0.2)	28.0(0.2)	28.1(0.2)	28.2(0.2)	28.3(0.2)	28.5(0.2)	28.6(0.2)	28.8(0.2)
23.9(0.4)	24.1(0.4)	24.2(0.4)	24.4(0.4)	24.4(0.4)	24.9(0.5)	25.0(0.5)	25.1(0.5)	25.2(0.6)	25.4(0.6)	25.6(0.6)	25.6(0.6)	25.9(0.6)	26.0(0.6)
25.9(0.3)	26.1(0.3)	26.2(0.3)	26.3(0.3)	26.4(0.3)	26.5(0.2)	26.6(0.3)	26.8(0.3)	26.9(0.3)	27.1(0.3)	27.2(0.3)	27.4(0.3)	27.6(0.3)	27.8(0.3)
27.3(0.3)	27.4(0.3)	27.6(0.3)	27.7(0.3)	27.8(0.3)	27.9(0.3)	28.1(0.3)	28.2(0.3)	28.4(0.3)	28.5(0.3)	28.7(0.3)	28.7(0.3)	28.9(0.3)	29.1(0.4)
27.1(0.3)	27.2(0.3)	27.4(0.3)	27.4(0.3)	27.6(0.3)	27.7(0.3)	27.8(0.3)	27.8(0.3)	27.9(0.3)	28.2(0.3)	28.4(0.3)	28.5(0.3)	28.6(0.3)	28.8(0.3)
26.1(0.3)	26.3(0.2)	26.4(0.2)	26.6(0.2)	26.8(0.2)	26.9(0.2)	27.0(0.2)	27.2(0.2)	27.3(0.2)	27.5(0.2)	27.6(0.3)	27.8(0.3)	27.9(0.3)	28.1(0.3)

p66	p67	p68	p69	p70	p71	p72	p73	p74	p75	p76	p77	p78	p79
16.6(0.1)	16.6(0.1)	16.7(0.1)	16.7(0.1)	16.8(0.1)	16.8(0.1)	16.9(0.1)	16.9(0.1)	16.9(0.1)	17.0(0.1)	17.1(0.2)	17.1(0.2)	17.1(0.2)	17.1(0.2)
16.3(0.1)	16.4(0.1)	16.4(0.1)	16.4(0.1)	16.5(0.1)	16.6(0.1)	16.6(0.1)	16.7(0.1)	16.7(0.1)	16.8(0.1)	16.9(0.2)	17.0(0.2)	17.1(0.2)	17.2(0.2)
19.6(0.2)	19.7(0.2)	19.9(0.2)	19.9(0.2)	20.0(0.2)	20.1(0.2)	20.4(0.3)	20.6(0.3)	20.8(0.3)	20.9(0.3)	21.1(0.3)	21.4(0.3)	21.5(0.3)	21.8(0.3)
24.2(0.5)	24.4(0.5)	24.5(0.5)	24.7(0.5)	24.9(0.5)	25.3(0.5)	25.5(0.5)	25.7(0.5)	26.0(0.6)	26.3(0.6)	26.6(0.6)	26.8(0.5)	27.2(0.5)	27.3(0.5)
16.4(0.2)	16.4(0.2)	16.5(0.2)	16.5(0.2)	16.6(0.2)	16.6(0.2)	16.6(0.2)	16.7(0.2)	16.8(0.2)	16.9(0.2)	17.0(0.2)	17.2(0.2)	17.2(0.2)	17.3(0.2)
16.5(0.1)	16.5(0.1)	16.6(0.1)	16.7(0.1)	16.8(0.1)	16.8(0.1)	16.9(0.1)	16.9(0.1)	17.0(0.1)	17.1(0.1)	17.1(0.1)	17.2(0.1)	17.3(0.2)	17.4(0.2)
19.8(0.3)	20.0(0.3)	20.1(0.3)	20.3(0.3)	20.4(0.3)	20.6(0.3)	20.7(0.3)	20.7(0.3)	20.9(0.4)	21.0(0.4)	21.3(0.4)	21.4(0.4)	21.6(0.4)	22.0(0.4)
23.2(0.3)	23.3(0.3)	23.4(0.3)	23.5(0.3)	23.6(0.3)	23.8(0.3)	23.9(0.3)	24.1(0.3)	24.2(0.3)	24.5(0.3)	24.7(0.3)	24.8(0.4)	25.0(0.4)	25.3(0.4)
27.1(0.5)	27.3(0.5)	27.4(0.5)	27.6(0.5)	27.8(0.6)	28.1(0.6)	28.2(0.5)	28.4(0.5)	28.7(0.5)	29.0(0.5)	29.2(0.5)	29.4(0.5)	29.5(0.5)	29.8(0.5)
29.1(0.4)	29.3(0.4)	29.4(0.4)	29.6(0.4)	29.9(0.4)	30.0(0.4)	30.1(0.3)	30.4(0.3)	30.5(0.3)	30.6(0.3)	30.7(0.3)	30.8(0.3)	31.0(0.4)	31.2(0.4)
29.5(0.2)	29.6(0.2)	29.8(0.2)	29.9(0.2)	30.0(0.2)	30.2(0.2)	30.4(0.3)	30.5(0.3)	30.6(0.3)	30.8(0.3)	30.9(0.3)	31.1(0.3)	31.3(0.3)	31.4(0.4)
29.5(0.3)	29.6(0.3)	29.7(0.3)	29.8(0.3)	29.8(0.3)	29.9(0.3)	30.0(0.3)	30.1(0.3)	30.3(0.3)	30.4(0.4)	30.6(0.4)	30.7(0.4)	30.8(0.4)	31.0(0.4)
29.0(0.2)	29.1(0.2)	29.3(0.2)	29.5(0.2)	29.6(0.2)	29.8(0.2)	29.9(0.2)	30.1(0.2)	30.2(0.2)	30.4(0.2)	30.5(0.2)	30.7(0.2)	30.8(0.2)	31.0(0.2)
26.4(0.6)	26.6(0.6)	26.8(0.6)	27.0(0.6)	27.1(0.6)	27.3(0.6)	27.4(0.6)	27.6(0.6)	27.7(0.7)	28.2(0.7)	28.3(0.7)	28.3(0.8)	28.7(0.9)	29.3(0.9)
27.9(0.4)	28.1(0.4)	28.4(0.4)	28.5(0.4)	28.7(0.4)	28.9(0.5)	29.3(0.5)	29.6(0.5)	29.7(0.5)	30.1(0.5)	30.4(0.6)	30.8(0.6)	30.9(0.7)	31.2(0.7)
29.3(0.4)	29.5(0.4)	29.8(0.4)	29.9(0.4)	30.2(0.4)	30.6(0.4)	30.8(0.4)	31.2(0.4)	31.3(0.4)	31.5(0.4)	31.7(0.4)	32.0(0.4)	32.4(0.5)	32.5(0.5)
28.9(0.4)	29.1(0.4)	29.1(0.4)	29.3(0.4)	29.4(0.4)	29.5(0.4)	29.6(0.4)	29.8(0.4)	30.0(0.4)	30.1(0.4)	30.3(0.4)	30.5(0.5)	30.6(0.5)	30.8(0.5)
28.3(0.3)	28.4(0.3)	28.6(0.3)	28.8(0.3)	29.0(0.3)	29.3(0.3)	29.5(0.4)	29.7(0.4)	30.0(0.4)	30.4(0.4)	30.7(0.4)	30.9(0.4)	31.2(0.5)	31.5(0.5)

p80	p81	p82	p83	p84	p85	p86	p87	p88	p89	p90	p91	p92	p93
17.2(0.2)	17.2(0.2)	17.2(0.2)	17.2(0.3)	17.2(0.3)	17.2(0.3)	17.3(0.3)	17.5(0.3)	17.5(0.3)	17.6(0.3)	17.7(0.3)	17.8(0.3)	18.1(0.3)	18.3(0.3)
17.2(0.2)	17.3(0.2)	17.4(0.2)	17.5(0.2)	17.8(0.2)	17.9(0.2)	18.0(0.2)	18.1(0.2)	18.3(0.3)	18.5(0.3)	18.6(0.4)	19.0(0.4)	19.4(0.5)	19.9(0.5)
22.1(0.4)	22.3(0.4)	22.4(0.4)	22.6(0.3)	22.8(0.3)	23.1(0.3)	23.3(0.4)	23.4(0.4)	23.7(0.4)	24.0(0.4)	24.5(0.5)	24.6(0.5)	25.2(0.5)	25.8(0.5)
27.7(0.5)	27.8(0.5)	28.0(0.5)	28.1(0.5)	28.5(0.5)	28.5(0.6)	28.8(0.7)	29.1(0.7)	29.7(0.7)	30.6(0.9)	31.0(1.1)	31.4(1.4)	32.2(1.5)	34.0(1.6)
17.3(0.2)	17.4(0.2)	17.5(0.2)	17.6(0.2)	17.6(0.2)	17.6(0.2)	17.7(0.2)	17.7(0.3)	17.8(0.3)	18.1(0.3)	18.1(0.3)	18.1(0.3)	18.1(0.4)	18.4(0.7)
17.5(0.1)	17.7(0.2)	17.8(0.2)	18.0(0.2)	18.1(0.2)	18.3(0.2)	18.4(0.2)	18.6(0.2)	18.9(0.2)	19.0(0.2)	19.1(0.2)	19.6(0.2)	19.9(0.3)	20.1(0.3)
22.1(0.4)	22.3(0.4)	22.5(0.4)	22.8(0.4)	23.0(0.4)	23.0(0.4)	23.2(0.4)	23.6(0.4)	23.9(0.4)	24.3(0.5)	24.5(0.5)	25.0(0.4)	25.7(0.4)	26.0(0.5)
25.6(0.5)	25.8(0.5)	26.1(0.5)	26.7(0.5)	27.1(0.5)	27.5(0.5)	27.8(0.5)	28.2(0.5)	28.4(0.5)	29.0(0.5)	29.5(0.5)	30.0(0.5)	30.8(0.5)	31.4(0.5)
29.9(0.5)	30.0(0.5)	30.2(0.4)	30.4(0.4)	30.8(0.4)	31.0(0.4)	31.0(0.5)	31.6(0.5)	31.7(0.6)	32.2(0.7)	32.6(0.8)	33.0(1.0)	33.5(1.1)	34.6(1.2)
31.5(0.4)	31.8(0.4)	32.0(0.4)	32.2(0.5)	32.2(0.5)	32.6(0.5)	33.1(0.5)	33.5(0.5)	33.6(0.6)	34.0(0.6)	34.3(0.6)	35.1(0.7)	35.7(0.7)	36.4(0.8)
31.5(0.3)	31.9(0.3)	32.3(0.3)	32.5(0.4)	32.6(0.4)	32.9(0.3)	33.2(0.3)	33.5(0.3)	33.7(0.3)	33.8(0.4)	34.1(0.4)	34.6(0.4)	35.1(0.5)	35.6(0.5)
31.2(0.4)	31.4(0.4)	31.6(0.4)	31.8(0.4)	31.9(0.4)	32.1(0.4)	32.3(0.4)	32.7(0.4)	32.8(0.5)	32.9(0.5)	33.3(0.6)	33.6(0.6)	33.7(0.5)	34.4(0.4)
31.2(0.2)	31.4(0.3)	31.6(0.3)	31.9(0.3)	32.2(0.3)	32.4(0.3)	32.7(0.3)	33.0(0.3)	33.5(0.3)	33.6(0.3)	33.9(0.3)	34.4(0.4)	35.1(0.4)	35.7(0.5)
29.4(1.0)	29.8(1.0)	30.4(1.0)	31.0(1.0)	31.9(1.0)	32.6(1.1)	33.2(1.1)	33.3(1.1)	33.8(1.2)	34.3(1.1)	34.6(1.1)	35.2(1.1)	36.2(1.1)	37.5(1.0)
31.6(0.7)	32.4(0.6)	32.8(0.7)	33.0(0.7)	33.4(0.7)	33.7(0.7)	34.2(0.7)	35.0(0.7)	35.5(0.7)	36.1(0.7)	36.8(0.7)	37.2(0.8)	37.8(0.9)	38.4(1.0)
32.8(0.5)	33.1(0.5)	33.5(0.6)	33.7(0.6)	34.2(0.6)	34.5(0.6)	34.9(0.6)	35.5(0.6)	35.8(0.6)	36.1(0.6)	36.7(0.5)	37.0(0.4)	37.7(0.5)	37.9(0.6)
31.0(0.5)	31.2(0.5)	31.4(0.5)	31.8(0.4)	32.2(0.5)	32.6(0.5)	32.8(0.5)	33.0(0.5)	33.3(0.6)	33.4(0.6)	33.9(0.6)	34.5(0.5)	34.7(0.5)	35.3(0.6)
31.9(0.5)	32.4(0.5)	32.7(0.5)	33.1(0.4)	33.3(0.4)	33.7(0.5)	34.1(0.5)	34.6(0.5)	35.1(0.5)	35.8(0.5)	36.1(0.5)	36.7(0.4)	37.4(0.4)	37.9(0.5)

p94	p95	p96	p97	p98	p99
18.5(0.3)	18.6(0.4)	18.8(0.6)	19.2(0.9)	19.3(1.4)	
20.6(0.5)	21.0(0.6)	21.4(0.6)	22.9(0.7)	23.6(0.8)	25.1(0.7)
26.4(0.5)	27.1(0.5)	27.6(0.5)	28.4(0.5)	29.5(0.5)	31.1(0.8)
36.0(1.6)	36.4(1.6)	37.9(1.8)	38.2(2.5)	40.9(2.6)	45.9(3.0)
18.7(1.1)	18.7(1.4)	18.8(1.7)	19.2(1.9)	20.8(2.2)	
20.7(0.3)	21.3(0.4)	21.8(0.5)	22.8(0.5)	23.9(0.6)	25.0(0.6)
26.2(0.5)	27.0(0.5)	27.6(0.6)	28.6(0.6)	29.7(0.7)	31.6(0.8)
32.0(0.6)	32.3(0.8)	32.9(1.1)	34.7(1.2)	37.6(1.4)	39.6(1.8)
35.7(1.3)	37.5(1.3)	39.5(1.3)	40.6(1.3)	41.6(1.1)	42.8(1.6)
37.0(0.8)	38.0(0.9)	39.2(1.1)	39.9(1.3)	42.5(1.5)	45.7(2.3)
36.3(0.6)	37.1(0.6)	38.2(0.6)	39.1(0.6)	40.9(0.7)	43.3(0.8)
35.4(0.6)	36.1(0.8)	36.4(1.0)	37.0(1.0)	38.7(1.0)	40.8(1.7)
36.6(0.5)	37.4(0.5)	38.5(0.6)	39.6(0.7)	41.1(0.8)	43.6(1.1)
38.2(1.0)	38.7(1.0)	40.0(1.1)	40.7(1.2)	42.5(1.0)	44.1(1.5)
39.8(1.1)	41.1(1.3)	42.5(1.3)	43.7(1.2)	45.5(1.2)	47.5(1.2)
39.1(0.6)	40.0(0.8)	41.0(0.6)	42.7(0.7)	43.9(1.1)	46.8(1.3)
36.2(0.6)	36.5(0.7)	37.6(0.8)	38.9(1.0)	40.2(1.8)	44.1(1.8)
38.7(0.5)	40.0(0.6)	40.9(0.6)	42.6(0.7)	44.2(0.7)	46.6(1.0)

TABLE Y-6 Median Lengths and Weights for Boys 1 Through 35 Months of Age, NHANES 2015-2018

Age (mo)	Median Length (cm)	Median length (in)	Length range 3 rd -97 th percentile (cm)		Length range 3 rd -97 th percentile (in)		Median weight (kg)	Median weight (lb)	Weight range 3 rd -97 th percentile (kg)		Weight range 3 rd -97 th percentile (lb)	
			3rd	97th	3rd	97th			3rd	97th	3rd	97th
Birth- 2 mo	56.5	22.2	51.4	61.2	20.2	24.1	5.0	11.0	3.8	7.0	8.4	15.4
3-5 mo	64.4	25.4	58.4	69.7	23.0	27.4	7.2	15.8	5.8	9.3	12.7	20.6
6-8 mo	69.5	27.4	64.6	73.5	25.5	28.9	8.9	19.5	6.5	10.2	14.3	22.5
9-11 mo	73.0	28.7	68.5	78.4	27.0	30.9	9.4	20.8	8.0	11.9	17.7	26.2
12-14 mo	76.4	30.1	70.9	81.5	27.9	32.1	10.4	22.9	8.3	12.5	18.4	27.5
15-17 mo	79.2	31.2	74.1	.	29.2	.	11.1	24.4	8.2	.	18.2	.
18-20 mo	82.6	32.5	74.6	88.0	29.4	34.7	11.8	26.1	7.8	14.0	17.2	30.9
21-23 mo	86.4	34.0	81.2	90.9	32.0	35.8	12.3	27.1	10.1	15.4	22.2	33.9
24-26 mo	87.9	34.6	80.5	93.8	31.7	36.9	12.6	27.7	9.7	17.1	21.4	37.8
27-29 mo	91.4	36.0	81.2	.	32.0	.	13.7	30.2	9.8	19.0	21.7	41.8
30-32 mo	93.3	36.7	88.5	99.6	34.8	39.2	14.6	32.1	11.1	17.7	24.5	39.0
33-35 mo	94.9	37.4	88.5	102.2	34.9	40.2	14.7	32.5	11.9	17.7	26.3	39.0

. Percentile not calculated using SUDAAN due to small sample size.

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-7 Median Lengths and Weights for Girls 1 Through 35 Months of Age, NHANES 2015-2018

Age (mo)	Median Length (cm)	Median length (in)	Length range 3 rd -97 th percentile (cm)		Length range 3 rd -97 th percentile (in)		Median weight (kg)	Median weight (lb)	Weight range 3 rd -97 th percentile (kg)		Weight range 3 rd -97 th percentile (lb)	
			3rd	97th	3rd	97th			3rd	97th	3rd	97th
Birth-2 mo	55.9	22.0	50.1	59.4	19.7	23.4	4.9	10.9	3.7	6.3	8.1	13.9
3-5 mo	62.6	24.7	55.6	68.2	21.9	26.9	6.7	14.8	4.7	8.5	10.4	18.7
6-8 mo	67.5	26.6	63.4	71.8	25.0	28.3	7.9	17.4	6.4	10.4	14.2	22.9
9-11 mo	71.5	28.2	.	.	.	.	8.9	19.6	7.3	10.7	16.1	23.6
12-14 mo	75.8	29.9	69.7	.	27.5	.	10.1	22.2	7.8	.	17.1	.
15-17 mo	77.9	30.7	71.7	82.3	28.2	32.4	10.3	22.7	8.3	12.2	18.3	26.9
18-20 mo	82.2	32.4	74.9	.	29.5	.	10.9	24.1	8.8	.	19.5	.
21-23 mo	84.9	33.4	78.5	.	30.9	.	11.8	25.9	9.3	15.8	20.5	34.9
24-26 mo	87.7	34.5	76.7	92.9	30.2	36.6	12.3	27.0	9.8	14.4	21.7	31.7
27-29 mo	89.2	35.1	82.9	94.9	32.7	37.4	12.6	27.8	10.4	15.4	22.9	33.9
30-32 mo	92.0	36.2	86.0	97.2	33.9	38.3	13.4	29.6	11.0	17.1	24.3	37.8
33-35 mo	94.4	37.2	86.6	99.2	34.1	39.1	14.2	31.3	11.2	17.9	24.7	39.5

. Percentile not calculated using SUDAAN due to small sample size.

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-8 Median Heights and Weights for Boys 3 Through 18 Years of Age, NHANES 2015-2018

Age (y)	Median height (cm)	Median height (in)	Height range 3 rd -97 th percentile (cm)		Height range 3 rd -97 th percentile (in)		Median weight (kg)	Median weight (lb)	Weight range 3 rd -97 th percentile (kg)		Weight range 3 rd -97 th percentile (lb)	
			3rd	97th	3rd	97th			3rd	97th	3rd	97th
3	99.2	39.1	90.3	107.5	35.6	42.3	15.5	34.3	13.0	25.1	28.6	55.3
4	105.4	41.5	95.7	116.2	37.7	45.8	17.8	39.2	14.0	25.0	31.0	55.2
5	112.4	44.3	102.2	124.4	40.2	49.0	20.5	45.1	14.9	33.4	32.8	73.7
6	118.0	46.5	107.9	129.2	42.5	50.8	22.5	49.6	17.6	39.9	38.9	88.0
7	126.1	49.6	113.6	137.3	44.7	54.1	26.2	57.7	20.0	41.7	44.1	92.0
8	131.8	51.9	118.9	144.4	46.8	56.9	29.5	65.1	20.8	49.2	45.9	108.4
9	136.4	53.7	119.3	151.5	47.0	59.7	31.8	70.2	22.6	65.3	49.9	144.0
10	141.1	55.5	130.2	153.9	51.3	60.6	38.7	85.4	26.6	66.5	58.6	146.7
11	148.3	58.4	135.8	165.3	53.5	65.1	44.6	98.4	28.4	77.1	62.6	170.1
12	153.9	60.6	139.7	172.4	55.0	67.9	46.4	102.4	29.7	79.1	65.5	174.3
13	163.6	64.4	148.1	173.6	58.3	68.3	55.4	122.0	35.5	96.5	78.2	212.8
14	170.0	66.9	153.4	181.9	60.4	71.6	59.9	132.0	39.7	108.3	87.4	238.8
15	172.7	68.0	158.6	184.3	62.4	72.5	66.1	145.7	43.3	120.9	95.5	266.6
16	172.6	67.9	159.5	186.1	62.8	73.3	66.8	147.2	47.8	121.3	105.4	267.3
17	174.9	68.9	163.1	190.3	64.2	74.9	72.1	158.9	49.0	130.0	108.1	286.6
18	175.5	69.1	163.8	187.4	64.5	73.8	71.0	156.6	54.0	122.7	119.0	270.5

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-9 Median Heights and Weights for Girls 3 Through 18 Years of Age, NHANES 2015-2018

Age (y)	Median height (cm)	Median height (in)	Height range 3 rd -97 th percentile (cm)		Height range 3 rd -97 th percentile (in)		Median weight (kg)	Median weight (lb)	Weight range 3 rd -97 th percentile (kg)		Weight range 3 rd -97 th percentile (lb)	
			3rd	97th	3rd	97th			3rd	97th	3rd	97th
3	96.9	38.2	89.9	107.1	35.4	42.1	14.9	32.8	11.7	20.0	25.8	44.1
4	104.6	41.2	95.4	113.8	37.6	44.8	17.7	39.0	13.6	24.2	30.0	53.4
5	112.1	44.1	100.8	124.7	39.7	49.1	19.7	43.3	15.0	30.0	33.1	66.2
6	119.3	47.0	108.5	129.0	42.7	50.8	22.4	49.3	16.8	40.0	37.1	88.1
7	123.7	48.7	113.9	135.7	44.8	53.4	25.7	56.6	19.0	44.8	42.0	98.7
8	129.8	51.1	118.1	143.8	46.5	56.6	28.3	62.3	20.2	50.2	44.6	110.7
9	136.5	53.8	123.6	148.8	48.7	58.6	33.4	73.5	22.8	61.5	50.3	135.6
10	142.3	56.0	127.5	156.2	50.2	61.5	39.5	87.0	24.3	64.8	53.5	142.9
11	150.8	59.4	134.4	163.9	52.9	64.5	43.6	96.2	28.6	78.2	63.0	172.4
12	154.3	60.8	141.1	167.8	55.6	66.1	52.1	114.8	31.4	78.7	69.2	173.5
13	157.7	62.1	140.5	168.6	55.3	66.4	52.2	115.1	36.2	93.2	79.7	205.5
14	161.2	63.5	148.9	175.8	58.6	69.2	59.5	131.3	45.0	93.7	99.2	206.6
15	160.0	63.0	149.9	174.8	59.0	68.8	58.1	128.1	43.1	99.3	95.0	218.9
16	161.7	63.7	150.2	173.1	59.2	68.2	61.8	136.2	41.9	111.6	92.3	246.0
17	162.4	64.0	151.8	175.9	59.8	69.3	65.1	143.6	42.3	100.8	93.2	222.1
18	162.3	63.9	149.4	172.2	58.8	67.8	62.7	138.2	44.7	114.0	98.6	251.3

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-10 Median Heights and Weights for Children and Adults Overall and by Weight Status^a, NHANES 2015-2018

Sex	Age	Overall																	
		Underweight				Normal				Overweight				Obesity					
		Median Height (cm)	Height range 3 rd -97 th percentile		Median weight (kg)	Weight range 3 rd -97 th percentile (kg)		Median weight (kg)	Weight range 3 rd -97 th percentile (kg)		Median weight (kg)	Weight range 3 rd -97 th percentile (kg)		Median weight (kg)	Weight range 3 rd -97 th percentile (kg)				
	3rd	97th		3rd	97th		3rd	97th		3rd	97th		3rd	97th		3rd	97th		
M	2-3 y	95.6	85.3	105.8	14.8	11.5	23.2	13.1	.	.	14.3	11.4	17.3	16.9	13.3	.	18.1	14.6	.
	4-8 y	120.2	101.0	140.9	23.1	15.6	43.8	20.8	13.6	.	21.3	15.6	32.6	26.2	17.2	38.2	34.7	20.2	50.8
	9-13 y	148.2	127.5	171.6	43.3	26.3	87.2	31.2	.	.	37.1	25.3	57.4	45.6	32.9	70.6	64.3	41.3	99.3
	14-18 y	173.3	156.5	186.4	66.7	43.5	123.4	49.1	32.8	59.0	61.9	43.3	78.2	77.6	62.1	92.9	96.1	76.5	149.0
	19-30 y	176.1	162.2	188.3	81.4	54.8	136.5	54.2	44.0	60.4	68.5	55.4	83.0	83.3	69.8	98.9	107.2	85.3	155.8
	31-50 y	176.3	161.1	190.1	89.9	62.1	145.1	54.7	.	.	71.0	54.4	87.8	84.9	69.7	103.6	106.9	83.9	161.6
	51-70 y	174.9	160.7	188.3	88.7	60.6	136.4	53.9	38.6	.	69.9	55.8	84.1	83.0	68.5	101.2	104.2	84.1	150.1
	>70 y	172.2	157.3	185.0	83.3	56.2	120.1	51.7	.	.	65.8	49.5	78.4	80.1	66.1	95.9	100.3	82.5	129.3
	19+ y	175.4	160.8	188.9	87.2	58.6	140.2	54.3	44.5	60.0	69.3	54.9	83.4	83.5	68.5	102.0	105.0	83.9	154.0
	F	2-3 y	93.7	83.6	105.7	14.3	10.6	19.0	11.2	.	.	14.0	10.6	17.6	15.4	12.4	.	17.3	14.0	21.6
4-8 y		117.6	99.1	137.7	22.2	15.0	42.9	18.7	12.9	.	20.6	14.9	30.3	25.5	17.3	37.3	32.1	19.8	52.5
9-13 y		149.1	128.1	165.3	43.7	25.5	79.2	27.0	19.5	34.2	37.5	25.3	54.2	53.7	35.1	67.4	66.5	44.8	98.2
14-18 y		161.6	150.0	174.0	61.2	44.2	108.2	42.5	.	47.8	55.5	44.7	69.3	70.8	58.8	84.5	88.0	67.3	122.8
19-30 y		162.7	149.9	175.8	69.3	46.3	122.2	45.8	37.2	52.3	57.6	46.6	71.4	71.1	58.6	86.7	94.1	74.7	153.8
31-50 y		162.5	149.4	175.6	75.0	49.6	133.3	45.2	.	.	59.5	47.7	71.1	71.6	59.0	86.3	94.6	73.0	151.6
51-70 y		160.8	148.6	172.9	74.8	47.6	125.2	48.2	39.5	49.8	59.2	46.5	71.3	70.9	58.8	81.8	91.2	73.0	135.2
>70 y		156.8	143.8	168.9	69.7	47.1	110.5	35.8	.	.	54.8	44.1	66.1	67.3	56.6	80.9	83.6	67.6	122.2
19+ y		161.2	148.1	174.4	73.2	48.0	126.8	47.1	35.8	51.7	58.4	46.4	71.2	70.8	58.5	85.1	91.9	72.0	139.2

Sex	Age	Overall																	
		Underweight				Normal				Overweight				Obesity					
		Median Height (in)	Height range 3 rd -97 th percentile (in)		Median weight (lb)	Weight range 3 rd -97 th percentile (lb)		Median weight (lb)	Weight range 3 rd -97 th percentile (lb)		Median weight (lb)	Weight range 3 rd -97 th percentile (lb)		Median weight (lb)	Weight range 3 rd -97 th percentile (lb)				
	3rd	97th		3rd	97th		3rd	97th		3rd	97th		3rd	97th		3rd	97th		
M	2-3 y	37.6	33.6	41.6	32.7	25.4	51.0	28.9	.	.	31.6	25.2	38.1	37.2	29.3	.	39.9	32.2	.
	4-8 y	47.3	39.8	55.5	50.9	34.4	96.5	45.8	29.9	.	47.0	34.3	71.8	57.7	37.8	84.3	76.4	44.6	112.0
	9-13 y	58.4	50.2	67.5	95.4	58.1	192.3	68.9	.	.	81.9	55.7	126.6	100.6	72.6	155.7	141.7	91.1	219.0
	14-18 y	68.2	61.6	73.4	147.0	95.8	272.0	108.3	72.2	130.0	136.4	95.5	172.5	171.0	136.8	204.8	211.9	168.7	328.5
	19-30 y	69.3	63.9	74.1	179.4	120.9	300.9	119.5	97.1	133.2	151.1	122.2	182.9	183.7	154.0	217.9	236.4	188.0	343.4
	31-50 y	69.4	63.4	74.8	198.2	136.9	320.0	120.5	.	.	156.6	120.0	193.6	187.3	153.6	228.4	235.6	184.9	356.2
	51-70 y	68.9	63.3	74.1	195.6	133.5	300.6	118.8	85.2	.	154.1	122.9	185.5	183.0	150.9	223.2	229.7	185.4	330.9
	>70 y	67.8	61.9	72.8	183.7	123.8	264.7	114.0	.	.	145.0	109.2	172.9	176.6	145.7	211.4	221.2	181.8	285.0
	19+ y	69.1	63.3	74.4	192.2	129.1	309.2	119.8	98.2	132.4	152.8	121.1	183.8	184.0	151.0	225.0	231.6	184.9	339.4
	F	2-3 y	36.9	32.9	41.6	31.5	23.4	42.0	24.7	.	.	30.8	23.5	38.7	34.0	27.3	.	38.1	30.9	47.6
4-8 y		46.3	39.0	54.2	49.0	33.1	94.5	41.3	28.5	.	45.5	32.8	66.9	56.3	38.2	82.3	70.9	43.7	115.8
9-13 y		58.7	50.4	65.1	96.3	56.1	174.7	59.6	42.9	75.4	82.6	55.8	119.5	118.4	77.5	148.6	146.5	98.7	216.6
14-18 y		63.6	59.0	68.5	135.0	97.4	238.4	93.6	.	105.3	122.4	98.6	152.8	156.0	129.7	186.3	194.1	148.4	270.8
19-30 y		64.0	59.0	69.2	152.9	102.1	269.5	101.1	82.0	115.2	126.9	102.7	157.4	156.7	129.2	191.2	207.4	164.6	339.0
31-50 y		64.0	58.8	69.1	165.4	109.3	293.9	99.6	.	.	131.2	105.2	156.7	157.7	130.0	190.2	208.5	160.9	334.3
51-70 y		63.3	58.5	68.1	164.9	105.0	275.9	106.4	87.1	109.7	130.6	102.4	157.3	156.4	129.5	180.4	201.1	161.0	298.1
>70 y		61.7	56.6	66.5	153.7	103.9	243.7	78.9	.	.	120.8	97.3	145.7	148.5	124.7	178.4	184.2	148.9	269.5
19+ y		63.5	58.3	68.7	161.3	105.9	279.6	103.7	79.0	114.0	128.8	102.3	156.9	156.1	128.9	187.6	202.6	158.7	306.9

^aAdults 19+: Underweight: BMI < 18.5; Normal weight: BMI 18.5 to <25; Overweight: BMI 25.0 to <30; Obesity: BMI ≥ 30.0; (Source: CDC).

^bChildren: Underweight: <5th percentile of BMI for age; Normal weight: 5th percentile to <85th percentile; Overweight: 85th percentile to <95th percentile; Obese: .

. Percentile not calculated using SUDAAN due to small sample size.

Note: Pregnant and lactating adolescents and women excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-11 Median Heights and Weights for Boys 3 Through 18 Years of Age, Canada, CHMS 2012-2019

Age (y)	Median Height (cm)	Height range		Median weight (kg)	Weight range	
		3 rd percentile (cm)	97 th percentile		3 rd -percentile (kg)	97 th percentile
3	100.1(0.4)	92.0(0.8)	108.3(0.8)	16.0(0.2)	12.8(0.5)	19.9(0.7)
4	106.6(0.4)	97.3(0.7)	114.8(1.1)	17.7(0.3)	14.0(0.3)	25.9(0.7)
5	112.9(0.5)	105.0(0.9)	126.2(1.5)	19.9(0.2)	16.2(0.4)	27.9(1.1)
6	120.4(0.5)	110.6(1.2)	130.7(1.0)	22.2(0.3)	17.5(1.1)	31.5(2.9)
7	126.7(0.7)	117.9(0.5)	138.6(1.6)	24.9(0.4)	20.6(0.5)	42.5(1.3)
8	132.1(0.7)	122.6(2.0)	141.6(0.7)	28.4(0.5)	21.4(0.7)	48.0(2.3)
9	138.9(0.7)	125.0(0.9)	148.0(1.0)	32.5(0.8)	23.4(0.7)	54.2(3.7)
10	142.8(0.8)	132.2(0.9)	156.2(0.7)	35.8(1.0)	25.9(0.6)	56.1(2.0)
11	147.3(0.6)	135.2(0.8)	162.7(0.8)	39.4(0.9)	28.8(0.5)	68.6(3.4)
12	159.4(1.0)	140.2(1.3)	173.4(1.4)	48.4(1.2)	31.9(1.0)	77.6(2.2)
13	164.7(1.3)	147.0(4.4)	179.4(1.1)	55.0(1.3)	36.2(0.9)	87.4(4.4)
14	168.7(0.6)	156.3(1.0)	181.9(0.9)	63.6(1.6)	40.7(3.0)	104.4(14.8)
15	173.0(0.9)	163.7(1.8)	187.6(1.6)	68.3(1.7)	51.2(2.2)	106.6(6.8)
16	175.6(0.9)	156.9(5.1)	189.4(1.0)	69.7(1.3)	44.6(3.1)	129.7(8.7)
17	178.3(1.1)	159.4(5.8)	190.2(0.7)	71.0(1.8)	51.8(1.3)	131.1(12.8)
18	175.8(1.1)	164.9(1.1)	189.7(0.8)	72.0(2.3)	55.2(1.4)	139.3(13.4)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-12 Median Heights and Weights for Girls 3 Through 18 Years of Age, Canada, CHMS 2012-2019

Age (y)	Median Height (cm)	Height range		Median weight (kg)	Weight range	
		3 rd percentile (cm)	97 th percentile		3 rd -percentile (kg)	97 th percentile
3	99.5(0.5)	90.6(0.5)	107.5(0.7)	15.6(0.2)	12.3(0.3)	21.6(1.3)
4	105.6(0.5)	97.3(1.1)	115.2(0.8)	17.6(0.2)	14.1(0.2)	25.8(1.2)
5	112.3(0.5)	101.9(1.0)	122.1(1.2)	19.8(0.2)	15.1(0.3)	28.2(0.8)
6	121.1(0.7)	107.9(1.3)	130.9(1.8)	22.9(0.5)	16.6(0.3)	34.4(1.7)
7	124.4(0.6)	111.6(1.0)	137.0(1.7)	24.2(0.4)	18.6(0.4)	44.4(1.6)
8	132.1(0.8)	119.8(5.5)	144.8(1.0)	27.9(0.4)	20.7(1.2)	50.6(2.8)
9	136.0(0.7)	125.1(1.7)	148.0(0.9)	29.5(0.8)	22.5(0.4)	47.5(3.1)
10	145.2(0.9)	131.1(1.4)	156.5(0.7)	37.6(0.8)	25.9(0.9)	61.4(1.6)
11	149.5(0.7)	138.9(1.5)	162.7(1.1)	40.1(1.2)	29.1(0.6)	70.6(2.4)
12	157.8(0.6)	144.8(1.7)	168.5(1.2)	49.4(1.1)	34.5(1.1)	78.2(2.2)
13	161.0(0.9)	147.8(0.7)	172.0(0.6)	52.6(1.7)	34.7(1.2)	81.7(5.2)
14	162.2(0.9)	151.3(1.7)	171.8(1.5)	53.3(1.0)	42.4(1.6)	77.5(3.3)
15	163.5(0.7)	151.0(1.5)	175.9(0.8)	56.5(1.1)	35.5E(7.9)	85.7(9.4)
16	164.8(0.8)	152.2(0.9)	177.1(1.1)	58.7(1.3)	46.0(1.1)	95.9(5.9)
17	163.4(0.9)	149.9(2.4)	176.3(1.1)	61.6(1.6)	43.1(2.0)	106.4(9.0)
18	165.1(0.7)	150.9(2.1)	176.1(1.9)	59.9(1.4)	45.5(1.9)	92.1(9.3)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-13 Median Heights and Weights for Children and Adults Overall and by Weight Status, Canada, CHMS 2012-2019

Sex	Age	Overall					
		Median Height (cm)	3 rd -	97th	Median weight (kg)	3 rd -	97th
M	3 y	100.1(0.4)	92.0(0.8)	108.3(0.8)	16.0(0.2)	12.8(0.5)	19.9(0.7)
	4-8 y	121.0(0.5)	101.5(0.4)	139.6(0.7)	22.4(0.3)	15.4(0.3)	40.1(1.9)
	9-13 y	148.3(0.6)	131.0(0.7)	173.3(0.7)	41.7(0.4)	26.6(0.3)	75.6(1.9)
	14-18 y	174.7(0.4)	158.5(1.6)	189.5(0.5)	68.9(0.8)	45.8(1.5)	131.3(9.0)
	19-30 y	178.4(0.5)	165.1(1.2)	191.2(0.9)	79.7(1.2)	56.9(0.8)	129.9(5.9)
	31-50 y	176.4(0.3)	163.9(0.6)	189.7(0.6)	84.0(0.8)	60.6(1.3)	127.3(4.0)
	51-70 y	174.5(0.4)	161.2(0.5)	188.7(1.1)	84.8(0.8)	62.1(0.7)	122.4(2.5)
	>70 y	171.5(0.5)	158.4(1.3)	184.2(0.6)	81.9(0.9)	61.1(1.8)	113.5(2.1)
	19+ y	175.9(0.3)	162.4(0.4)	189.6(0.6)	83.2(0.5)	59.8(0.6)	125.8(2.7)
F	3 y	99.5(0.5)	90.6(0.5)	107.5(0.7)	15.6(0.2)	12.3(0.3)	21.6(1.3)
	4-8 y	118.7(0.6)	99.9(0.5)	139.1(1.0)	22.1(0.3)	15.0(0.1)	41.0(1.5)
	9-13 y	149.5(0.5)	128.3(0.9)	168.8(0.8)	41.7(0.8)	24.6(0.4)	73.5(1.6)
	14-18 y	164.0(0.4)	151.0(0.6)	176.1(0.7)	58.1(0.4)	43.2(1.6)	95.0(4.8)
	19-30 y	163.4(0.5)	149.7(1.7)	179.1(1.8)	65.0(1.2)	44.0(1.6)	116.5(4.3)
	31-50 y	163.2(0.3)	151.7(0.7)	176.1(0.9)	68.2(0.6)	48.2(0.8)	120.3(2.7)
	51-70 y	160.4(0.4)	147.4(0.6)	173.1(0.4)	69.0(0.7)	47.3(1.1)	111.9(2.4)
	>70 y	157.8(0.4)	146.6(0.9)	169.6(0.8)	68.3(0.7)	48.1(1.2)	99.2(2.5)
	19+ y	162.1(0.3)	149.2(0.5)	175.5(0.6)	68.1(0.6)	46.7(0.6)	116.4(1.7)

TABLE Y-13 (continued, by weight status)

Sex	Age	Underweight			Normal			Overweight			Obese		
		Median weight (kg)	3 rd -	97th	Median weight (kg)	3 rd -	97th	Median weight (kg)	3 rd -	97th	Median weight (kg)	3 rd -	97th
M	3 y	13.6(0.4)			15.5(0.2)	12.9(0.2)	19.3(0.3)	17.9(0.4)			17.8(0.8)		
	4-8 y	18.5(1.0)			21.9(0.3)	15.4(0.2)	30.9(0.4)	27.3(1.0)	18.8(0.3)	39.8(0.9)	34.0(1.7)	19.8(0.4)	52.4(3.7)
	9-13 y	30.7(1.1)			38.0(0.6)	26.6(0.4)	58.1(0.9)	52.3(1.7)	36.8(1.0)	70.9(2.2)	63.3(2.1)	44.9(1.7)	92.5(3.5)
	14-18 y	53.4(1.2)			64.1(0.7)	44.8(1.6)	81.0(0.7)	78.5(1.4)	63.9(1.2)	94.4(1.4)	96.8(3.1)		
	19-30 y	54.6(1.5)			70.8(0.9)	56.1(1.2)	83.9(0.8)	87.2(1.0)	73.2(1.2)	102.2(1.4)	106.3(2.2)	85.5(5.0)	147.3(6.0)
	31-50 y	53.9(2.4)			72.0(0.8)	54.6(2.5)	85.0(1.1)	84.1(0.5)	71.4(0.7)	100.2(0.6)	103.3(1.0)	84.1(2.2)	147.6(8.0)
	51-70 y				70.2(1.0)	56.4(1.3)	86.7(1.6)	83.2(0.6)	69.6(0.7)	98.9(0.7)	100.6(0.7)	82.1(1.1)	140.1(3.4)

	>70 y		69.0(1.1)		80.9(0.8)	66.7(2.0)	97.7(1.3)	97.1(1.4)	79.5(1.2)	125.6(5.8)	
	19+ y	54.6(1.2)	71.0(0.6)	55.7(1.1)	85.0(0.8)	84.2(0.4)	70.6(0.6)	99.9(0.4)	102.6(0.5)	82.4(1.0)	145.8(4.5)
F	3 y	13.2(0.8)	15.3(0.1)	12.3(0.2)	18.1(0.2)	17.8(0.4)			20.0(1.5)		
	4-8 y	17.8(0.7)	21.2(0.3)	15.0(0.1)	31.2(0.4)	25.2(1.0)	16.8(0.7)	38.9(1.2)	34.1(1.4)	21.0(0.7)	53.8(4.2)
	9-13 y	26.5(0.8)	38.6(0.5)	25.3(0.5)	57.6(0.7)	52.6(2.0)	37.1(1.1)	70.8(1.5)	68.3(1.8)	45.1(1.7)	86.1(6.2)
	14-18 y	43.3(3.1)	55.9(0.4)	43.8(0.6)	68.9(0.5)	70.6(0.9)	58.3(1.5)	86.4(1.1)	86.5(2.8)		
	19-30 y	43.9(1.2)	59.2(0.7)	48.1(1.0)	73.8(1.3)	71.4(0.8)	54.8(4.8)	84.2(1.2)	97.1(2.5)	75.6(1.3)	146.4(10.5)
	31-50 y	50.0(2.1)	58.6(0.6)	47.3(1.0)	72.9(1.7)	71.8(0.9)	61.5(0.6)	86.2(0.7)	93.9(1.4)	73.6(1.6)	129.5(2.8)
	51-70 y	41.1(3.6)	58.2(0.3)	46.5(0.7)	70.5(0.8)	70.0(0.5)	59.4(0.9)	83.0(0.8)	89.5(0.9)	70.0(1.2)	123.8(3.3)
	>70 y	40.7(1.3)	57.2(0.6)	46.6(0.6)	66.1(1.8)	69.5(0.6)	57.0(1.6)	79.0(1.0)	81.5(1.1)	68.3(1.0)	114.6(3.7)
	19+ y	44.7(1.2)	58.5(0.3)	47.1(0.5)	72.6(0.7)	70.7(0.4)	59.4(0.6)	85.2(0.5)	90.9(0.7)	70.8(0.9)	128.7(3.2)

- Adults 19+: Underweight: BMI < 18.5; Normal weight: BMI 18.5 to <25; Overweight: BMI 25.0 to <30; Obesity: BMI ≥ 30.0; Obesity Class I: BMI 30 to < 35; Obesity Class II: BMI 35 to < 40; Obesity Class III: BMI ≥ 40 (Source: [CDC](#)).
- Children: Underweight: <5th percentile of BMI for age; Normal weight: 5th percentile to <85th percentile; Overweight: 85th percentile to <95th percentile; Obese: 95th percentile and above (SOURCE: [CDC](#)).
- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-14 Population Prevalence of Weight Categories^a by Race/Ethnicity, Children, , NHANES 2015-2018

Age	Sex	Race/ Hispanic origin	Underweight	SE	Normal	SE	Overweight	SE	Obesity	SE
1-3 y	M	Hispanic								
		Non-Hispanic Asian								
		Non-Hispanic Black								
		Non-Hispanic White								
	F	Hispanic								
		Non-Hispanic Asian								
		Non-Hispanic Black								
		Non-Hispanic White								
4-8 y	M	Hispanic	*		56.8	3.2	14.9	2.6	26.4	2.5
		Non-Hispanic Asian	*		64.6	5.1	*		12.0	3.9
		Non-Hispanic Black	1.0	0.6	72.4	3.5	*		15.0	3.0
		Non-Hispanic White	*		64.7	3.2	17.1	2.0	13.6	2.2
	F	Hispanic	1.9	1.0	54.7	3.2	16.6	2.3	26.8	2.8
		Non-Hispanic Asian	*		*		*		*	
		Non-Hispanic Black	*		59.4	2.9	18.8	2.7	19.5	2.7
		Non-Hispanic White	*		70.5	3.1	11.9	2.1	14.5	2.6
9-13 y	M	Hispanic	1.6	0.9	51.7	3.5	17.6	2.7	29.1	3.6
		Non-Hispanic Asian	*		69.1	5.2	*		*	
		Non-Hispanic Black	*		64.4	3.6	12.1	1.6	21.3	3.1
		Non-Hispanic White	*		59.1	3.1	14.9	2.2	21.8	3.1
	F	Hispanic	1.1	0.6	55.3	2.7	20.3	2.1	23.3	2.8
		Non-Hispanic Asian	*		76.6	4.9	*		*	
		Non-Hispanic Black	*		46.1	4.1	19.7	2.7	31.7	3.9
		Non-Hispanic White	3.1	0.9	64.3	3.1	18.6	2.6	14.0	2.6
14-18 y	M	Hispanic	*		47.1	3.4	19.1	3.2	31.5	4.4
		Non-Hispanic Asian	*		62.0	5.2	15.2	2.7	15.0	3.5
		Non-Hispanic Black	*		58.7	3.8	11.6	2.6	24.3	4.0
		Non-Hispanic White	*		63.7	4.1	15.1	2.0	14.0	2.3
	F	Hispanic	1.6	0.6	49.0	3.9	24.1	3.4	25.2	3.3
		Non-Hispanic Asian	*		*		*		*	
		Non-Hispanic Black	*		48.9	4.8	17.5	2.7	33.3	4.6
		Non-Hispanic White	*		59.2	3.6	21.9	2.8	15.3	2.7

^aUnderweight: <5th percentile of BMI for age; Normal weight: 5th percentile to <85th percentile; Overweight: 85th percentile to <95th percentile; Obese: 95th percentile and above (SOURCE: CDC).

*Estimate does not meet National Center for Health Statistics standards of reliability; see Series Report 2, Number 175 - https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf

Notes: exclude pregnant and lactating adolescents; it may not be possible to estimate underweight by race/ethnicity

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-15 Population Prevalence of Weight Categories^a and Abdominal Obesity^b by Race/Ethnicity, Adults, , NHANES 2015-2018

Age	Sex	Race/ Ethnicity	Underweight	SE	Normal	SE	Overweight	SE	Obesity	SE	Abdominal Obesity	SE
19-30 y	M	Hispanic	2.1	0.9	23.4	2.9	32.6	3.1	41.9	4.0	34.8	3.3
		Non-Hispanic Asian	*		46.6	3.6	36.7	3.9	14.8	4.0	9.1**	2.1
		Non-Hispanic Black	*		45.5	4.6	26.4	3.9	25.6	3.0	23.0	3.3
		Non-Hispanic White	3.9	1.1	40.1	3.5	24.4	3.3	31.6	4.4	32.5	4.2
	F	Hispanic	*		33.3	2.9	24.8	3.1	39.2	3.8	55.7	3.2
		Non-Hispanic Asian	*		57.5	4.4	16.0	2.8	20.7	4.7	30.1	4.5
		Non-Hispanic Black	2.9	0.9	33.4	3.6	20.9	2.9	42.8	3.7	54.1	3.7
		Non-Hispanic White	*		40.0	4.0	24.5	3.2	31.1	3.7	50.0	3.7
31-50 y	M	Hispanic	0.73	0.44	10.0	1.5	43.7	2.4	45.6	2.2	45.5	3.1
		Non-Hispanic Asian	0.93	0.66	30.4	2.8	49.8	3.5	18.9	2.2	24.1	2.6
		Non-Hispanic Black	0.82	0.58	20.4	2.5	31.9	2.0	46.9	2.9	43.7	2.6
		Non-Hispanic White	0.20	0.15	19.4	2.1	36.1	2.9	44.3	2.9	52.0	2.9
	F	Hispanic	0.68	0.40	17.2	1.9	32.6	2.5	49.5	2.2	75.9	2.3
		Non-Hispanic Asian	2.3	1.0	53.9	3.9	27.5	3.2	16.4	2.1	34.9	3.4
		Non-Hispanic Black	0.15	0.14	17.0	1.6	20.4	2.4	62.5	2.0	78.4	1.8
		Non-Hispanic White	1.4	0.5	32.2	3.0	26.9	2.3	39.6	2.3	66.0	2.2
51-70 y	M	Hispanic	*		9.9	1.6	43.6	2.8	46.5	3.1	56.4	2.4
		Non-Hispanic Asian	*		49.2	3.2	39.0	2.9	9.1	2.1	16.0	2.6
		Non-Hispanic Black	1.7	0.8	19.4	1.8	37.1	3.2	41.9	3.1	52.7	2.9
		Non-Hispanic White	0.64	0.37	19.7	2.5	34.9	3.0	44.8	3.2	60.9	2.9
	F	Hispanic	0.08	0.07	16.1	1.9	34.6	2.0	49.2	2.4	79.0	2.3
		Non-Hispanic Asian	2.8	0.9	53.2	2.7	32.0	2.8	12.1	1.4	45.6	3.1
		Non-Hispanic Black	1.8	0.5	11.2	1.7	28.3	1.7	58.8	2.0	85.0	1.9
		Non-Hispanic White	1.9	0.7	26.4	2.4	27.4	2.7	44.4	3.2	76.1	2.8
>70 y	M	Hispanic	*		21.5	3.5	44.5	5.2	34.0	4.4	58.6	3.9
		Non-Hispanic Asian	*		*		*		*		*	
		Non-Hispanic Black	*		35.2	4.6	32.6	4.3	28.1	4.2	41.4	4.7
		Non-Hispanic White	0.66	0.44	17.1	1.8	42.7	2.5	39.5	2.3	67.4	3.1
	F	Hispanic	*		16.9	4.3	39.2	4.4	43.2	4.9	88.0	3.4
		Non-Hispanic Asian	*		44.9	5.1	35.0	4.9	17.0	4.2	57.5	3.8
		Non-Hispanic Black	0.50	0.52	19.8	3.8	27.5	3.2	52.2	5.1	87.8	3.5
		Non-Hispanic White	0.70	0.37	26.6	2.1	34.3	2.4	38.3	2.3	79.7	2.2
19+ y	M	Hispanic	0.93	0.33	14.5	1.1	40.4	1.8	44.2	1.7	45.5	1.5
		Non-Hispanic Asian	1.7	0.5	41.9	1.8	42.3	1.5	14.1	1.5	17.8	1.3
		Non-Hispanic Black	1.8	0.5	27.9	1.8	32.0	1.5	38.3	1.7	40.5	1.8
		Non-Hispanic White	1.1	0.3	23.2	1.4	34.3	1.7	41.4	2.2	53.2	2.2
	F	Hispanic	1.0	0.3	21.1	1.4	31.5	1.0	46.3	1.5	72.2	1.5
		Non-Hispanic Asian	3.2	0.6	53.6	1.7	27.2	1.6	16.0	1.0	39.3	1.6
		Non-Hispanic Black	1.4	0.3	19.1	1.1	23.8	1.2	55.7	1.5	75.7	1.4
		Non-Hispanic White	1.9	0.4	30.4	1.5	27.9	1.3	39.7	1.7	69.4	1.8

^aUnderweight: BMI < 18.5; Normal weight: BMI 18.5 to <25; Overweight: BMI 25.0 to <30; Obesity: BMI ≥ 30.0; Obesity Class I: BMI 30 to < 35; Obesity Class II: BMI 35 to < 40; Obesity Class III: BMI ≥ 40

(Source: CDC).

^bWaist circumference >102 cm for men or >88 cm for women

*Estimate does not meet National Center for Health Statistics standards of reliability; see Series Report 2, Number 175 - https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf

**No explanation was found for this low estimate.

Notes: Pregnant and lactating women excluded; it may not be possible to estimate underweight by race/ethnicity

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-16 Population Prevalence of Weight Categories by Cultural or Racial Group, Children, Canada, CHMS 2012-2019

Age	Sex	Population group	Underweight	Normal	Overweight	Obese
3 y	M	White		66.6(6.5)	20.9E(5.0)	10.4E(4.5)
		Other or Multiple Origins	8.2E(3.6)	79.9(4.9)	7.3E(2.9)	4.6E(2.8)
	F	White	2.4E(1.1)	73.6(5.4)	14.8E(4.3)	9.2E(3.7)
		Other or Multiple Origins	4.6E(2.3)	70.4(7.2)	19.6E(6.1)	5.3E(2.3)
4-8 y	M	White	5.3E(1.1)	79.4(1.8)	8.4(1.1)	6.8E(1.2)
		Other or Multiple Origins	7.6E(2.1)	66.6(3.9)	13.4(2.0)	12.4E(2.5)
	F	White	3.4E(0.8)	75.9(2.0)	11.9(1.6)	8.9(1.2)
		Other or Multiple Origins	3.7E(0.9)	72.6(2.5)	14.5E(2.7)	9.3(1.5)
9-13 y	M	White	3.1E(0.7)	73.9(2.3)	13.3(1.9)	9.6(1.4)
		Other or Multiple Origins	5.5E(1.9)	60.8(3.2)	20.3(2.0)	13.4(2.2)
	F	White	5.0E(1.2)	72.9(2.3)	13.5(1.9)	8.6(1.3)
		Other or Multiple Origins	4.2E(1.0)	68.3(3.3)	18.1(2.8)	9.5E(2.0)
14-18 y	M	White	4.9E(1.1)	63.5(3.0)	10.9(1.7)	20.7(3.1)
		Other or Multiple Origins	5.4E(1.4)	61.7(3.7)	19.1E(3.5)	13.8E(2.8)
	F	White	2.1E(0.7)	74.3(2.4)	15.0(2.3)	8.6E(1.9)
		Other or Multiple Origins	6.1E(3.1)	71.3(3.8)	10.4E(1.9)	12.2E(2.9)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.

- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- E: Data with a coefficient of variation (CV) from 16.6% or higher; interpret with caution.

TABLE Y-17 Population Prevalence of Weight Categories^a and Abdominal Obesity^b by Cultural or Racial Group, Adults, Canada, CHMS

2012-2019

Age	Sex	Population group	Underweight	Normal	Overweight	Obese	Abdominal Obesity
19-30 y	M	White	1.9E(0.8)	50.0(3.9)	28.9(3.3)	19.2(2.7)	20.8(3.3)
		Other or Multiple Origins	3.0E(2.0)	42.1(3.9)	36.2(4.9)	18.7E(4.4)	13.7E(3.9)
	F	White	4.8E(1.4)	51.3(3.7)	22.8(3.4)	21.0(3.2)	32.7(3.8)
		Other or Multiple Origins	6.9E(2.6)	55.5(4.9)	24.3(3.2)	13.3E(3.3)	28.7(4.6)
31-50 y	M	White	0.7E(0.4)	27.5(2.4)	37.7(2.6)	34.1(2.7)	35.9(2.8)
		Other or Multiple Origins	1.0E(0.5)	34.6(3.5)	44.2(3.3)	20.2(3.2)	22.7(2.9)
	F	White	2.9E(1.0)	38.4(2.7)	30.0(2.2)	28.7(2.5)	50.0(2.9)
		Other or Multiple Origins	3.5E(1.2)	50.3(3.5)	27.4(2.9)	18.8(2.8)	39.3(3.9)
51-70 y	M	White	0.3E(0.2)	21.7(1.8)	44.6(2.0)	33.4(1.8)	48.2(2.0)
		Other or Multiple Origins		34.3(4.3)	47.4(4.3)	18.3E(3.2)	27.1(3.7)
	F	White	1.6E(0.7)	34.3(2.2)	32.5(1.8)	31.6(1.9)	61.2(2.1)
		Other or Multiple Origins	1.0E(0.6)	41.3(5.4)	31.8(4.1)	25.9E(5.0)	55.9(5.1)
>70 y	M	White		18.1(2.5)	50.1(3.8)	31.2(3.1)	51.0(3.0)
		Other or Multiple Origins		32.2E(8.0)	55.6E(9.4)	12.2E(4.4)	28.8E(7.5)
	F	White	1.3E(0.4)	28.3(3.2)	45.1(3.5)	25.3(2.8)	67.5(2.9)
		Other or Multiple Origins		25.6E(6.1)	39.8E(7.1)	32.6(4.4)	75.7(6.1)
19+ y	M	White	0.8E(0.2)	29.2(1.3)	39.5(1.5)	30.6(1.5)	38.6(1.5)
		Other or Multiple Origins	1.1E(0.5)	36.1(2.2)	43.7(2.1)	19.1(1.7)	22.1(1.9)
	F	White	2.6E(0.5)	38.3(1.7)	31.0(1.3)	28.2(1.7)	52.8(1.8)
		Other or Multiple Origins	3.7E(0.9)	48.9(2.4)	28.0(1.6)	19.5(2.1)	41.4(2.5)

^aUnderweight: BMI < 18.5; Normal weight: BMI 18.5 to <25; Overweight: BMI 25.0 to <30; Obesity: BMI ≥ 30.0; Obesity Class I: BMI 30 to < 35; Obesity Class II: BMI 35 to < 40; Obesity Class III: BMI ≥ 40 (Source: [CDC](#)).

^bWaist Circumference >102 cm for men or >88 cm for women

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- E: Data with a coefficient of variation (CV) from 16.6% or higher; interpret with caution.

TABLE Y-18 Body Measurement Summary Statistics, Men 19 years of Age and Older with Body Mass Index ≥ 18.5 and $< 25 \text{ kg/m}^2$, NHANES 2015-2018

Measure	Age	n	Mean	SE	Min	Max	Percentiles						
							5th	10th	25th	50th	75th	90th	95 th
BMI	19-30 years	385	22.2	0.15	18.5	24.9	18.7	19.4	20.8	22.4	23.7	24.4	24.5
	31-50 years	316	22.8	0.18	18.5	24.9	19.6	20.4	21.8	23.1	24.0	24.6	24.8
	51-70 years	394	22.9	0.13	18.5	24.9	19.7	20.8	22.1	23.0	24.0	24.6	24.7
	Over 70 years	210	22.5	0.15	18.5	24.9	19.6	20.2	21.1	22.7	23.8	24.3	24.6
	19 years and over	1305	22.6	0.08	18.5	24.9	19.2	19.9	21.5	22.8	23.9	24.5	24.7
Weight (kg)	19-30 years	385	68.5	0.54	39.2	92.4	56.5	58.9	63.0	68.5	73.1	77.7	80.2
	31-50 years	316	70.8	0.75	47.3	89.9	56.2	61.1	65.9	71.0	76.2	79.4	81.9
	51-70 years	394	69.5	0.55	42.8	97.5	57.7	60.3	64.7	69.9	73.8	79.0	81.5
	Over 70 years	210	65.5	0.64	46.7	82.6	53.0	56.1	60.3	65.8	70.1	75.4	77.9
	19 years and over	1305	69.1	0.33	39.2	92.4	56.2	59.2	63.7	69.3	74.2	78.6	81.4
Height (cm)	19-30 years	385	175.7	0.43	135.5	195.0	165.8	167.5	171.4	176.1	179.2	183.8	186.1
	31-50 years	316	175.8	0.54	150.7	195.8	163.3	166.2	171.0	175.9	180.3	184.1	187.4
	51-70 years	394	174.1	0.58	140.1	197.7	161.4	164.6	168.8	174.2	178.3	184.2	187.4
	Over 70 years	210	170.5	0.66	149.2	184.0	157.3	161.0	166.2	170.5	175.1	181.6	182.6
	19 years and over	1305	174.8	0.28	135.5	195.0	162.5	165.8	170.2	175.1	179.3	183.8	186.4
Waist circumference (cm)	19-30 years	380	80.7	0.37	63.4	96.3	71.5	73.2	76.5	80.4	84.5	87.9	90.5
	31-50 years	308	85.2	0.57	68.2	100.7	73.2	76.5	81.5	85.4	89.3	92.9	94.8
	51-70 years	378	89.1	0.55	69.5	109.0	77.6	79.8	84.3	89.4	93.5	96.4	98.2
	Over 70 years	196	90.5	0.60	69.2	117.6	78.8	81.5	85.9	90.5	95.1	98.9	99.9
	19 years and over	1262	85.1	0.30	63.4	117.6	73.1	75.7	79.8	85.1	90.3	94.4	96.3
Average sagittal abdominal diameter (cm)*	19-30 years	208	18.1	0.12	14.7	23.3	15.8	16.2	17.0	18.0	18.8	19.8	20.5
	31-50 years	187	18.9	0.23	15.0	24.5	15.7	16.6	17.7	18.8	20.2	21.2	21.8
	51-70 years	187	19.6	0.24	14.5	25.6	15.7	17.2	18.1	19.9	21.0	21.7	22.3
	Over 70 years	87	20.3	0.28	13.7	25.5	17.1	17.9	19.3	20.0	21.5	22.8	23.0
	19 years and over	669	18.9	0.11	13.7	25.6	15.8	16.5	17.6	18.7	20.2	21.3	21.9
Waist:hip ratio**	19-30	169	0.87	0.00	0.73	1.02	0.79	0.81	0.84	0.87	0.89	0.92	0.95
	31-50	121	0.90	0.01	0.80	1.02	0.82	0.84	0.86	0.91	0.93	0.95	0.96
	51-70	190	0.95	0.01	0.83	1.10	0.88	0.88	0.90	0.95	0.98	1.02	1.07
	>70	106	0.96	0.01	0.85	1.07	0.88	0.90	0.93	0.96	1.00	1.02	1.03
	19+	586	0.91	0.00	0.73	1.10	0.82	0.83	0.86	0.90	0.95	0.98	1.01

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-19 Body Measurement Summary Statistics, Women 19 years of Age and Older with Body Mass Index ≥ 18.5 and < 25 kg/m², NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Min	Max	Percentiles						
							5th	10th	25th	50th	75th	90th	95th
BMI	19-30	376	21.7	0.10	18.5	24.9	19.0	19.2	20.3	21.6	22.9	24.1	24.5
	31-50	441	22.4	0.09	18.5	24.9	19.5	20.0	21.3	22.5	23.6	24.5	24.7
	51-70	401	22.5	0.15	18.5	24.9	19.1	19.5	21.3	22.7	23.9	24.4	24.7
	>70	206	22.3	0.17	18.5	24.9	19.5	19.9	20.9	22.3	23.7	24.5	24.7
	19+	1424	22.2	0.06	18.5	24.9	19.1	19.6	20.9	22.3	23.6	24.4	24.7
Weight (kg)	19-30	376	57.8	0.37	37.5	78.2	48.1	50.0	52.8	57.6	61.8	65.5	69.0
	31-50	441	59.8	0.58	42.2	77.1	49.0	50.3	54.3	59.5	65.4	69.0	70.9
	51-70	401	59.0	0.61	38.5	78.2	47.2	47.6	53.4	59.2	64.5	68.9	70.5
	>70	206	55.1	0.42	41.8	71.0	45.9	47.7	50.7	54.8	59.3	63.0	65.5
	19+	1424	58.5	0.32	37.5	78.2	47.4	49.3	53.2	58.4	63.2	68.3	70.5
Height (cm)	19-30	376	163.1	0.49	141.5	185.2	151.8	154.4	158.3	162.8	167.7	172.4	174.4
	31-50	441	163.1	0.60	140.7	182.6	151.7	153.8	158.7	162.9	167.8	172.7	175.1
	51-70	401	162.0	0.54	138.4	179.8	150.5	153.5	157.9	161.3	167.1	171.1	172.7
	>70	206	157.0	0.42	137.9	171.5	145.3	149.3	152.7	157.2	161.9	164.7	165.6
	19+	1424	162.0	0.34	137.9	185.2	150.6	153.0	157.4	161.8	166.8	171.3	173.7
Waist circumference (cm)	19-30	360	77.4	0.33	64.5	97.0	69.5	70.9	73.2	76.6	81.4	84.5	87.6
	31-50	415	81.6	0.48	66.4	99.0	70.3	73.2	77.4	81.7	85.4	89.7	92.7
	51-70	387	83.6	0.71	66.5	105.0	71.1	73.4	78.5	83.1	88.8	94.3	95.2
	>70	185	85.1	0.79	67.4	102.8	73.8	75.1	80.2	84.8	90.4	93.8	95.9
	19+	1347	81.5	0.36	64.5	105.0	70.3	72.3	76.0	81.3	86.3	91.3	94.6
Average sagittal abdominal diameter (cm)*	19-30	180	16.8	0.09	13.2	21.1	14.4	15.0	15.6	16.8	17.8	18.7	19.5
	31-50	230	17.5	0.11	13.5	22.0	14.8	15.3	16.5	17.4	18.5	19.5	20.2
	51-70	183	18.2	0.20	14.8	24.9	15.1	15.6	16.7	18.2	19.6	20.3	21.5
	>70	83	18.7	0.27	14.3	24.0	15.4	15.8	17.3	18.8	19.9	20.9	22.1
	19+	676	17.7	0.08	13.2	24.9	14.9	15.3	16.3	17.5	18.9	20.0	20.8
Waist:hip ratio**	19-30	173	0.81	0.01	0.67	0.94	0.74	0.75	0.77	0.81	0.85	0.88	0.90
	31-50	184	0.84	0.01	0.72	1.02	0.74	0.77	0.81	0.83	0.88	0.91	0.94
	51-70	201	0.87	0.00	0.73	1.04	0.77	0.77	0.81	0.86	0.93	0.95	0.96
	>70	98	0.91	0.01	0.78	1.05	0.79	0.82	0.83	0.91	0.96	0.99	1.01
	19+	656	0.85	0.00	0.67	1.05	0.75	0.76	0.80	0.84	0.90	0.94	0.97

Note: Pregnant and lactating women excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-20a Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with Body Mass Index 5th Percentile to <85th Percentile, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5th	10th	25th	50th	75th	90th	95th
BMI	2-3 y	265	16.0	0.05	14.6	14.8	15.5	16.0	16.6	17.0	17.2
	4-8 y	608	15.7	0.05	14.1	14.4	15.0	15.6	16.3	16.8	17.4
	9-13 y	503	17.6	0.10	14.8	15.3	16.1	17.3	18.8	20.1	21.0
	14-18 y	428	20.9	0.12	17.6	18.1	19.4	20.8	22.2	23.8	24.5
Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	265	14.4	0.09	11.8	12.4	13.4	14.3	15.4	16.4	16.8
	4-8 y	608	22.3	0.23	16.0	17.0	18.5	21.3	25.4	28.6	30.4
	9-13 y	503	38.9	0.47	26.7	28.2	31.2	37.1	45.7	52.7	55.6
	14-18 y	428	62.2	0.52	46.5	50.7	56.7	61.9	67.2	73.8	76.4
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	265	94.7	0.31	85.6	87.9	90.6	94.9	98.7	101.8	102.8
	4-8 y	608	118.5	0.50	102.0	104.2	109.3	118.1	127.3	132.4	136.0
	9-13 y	503	147.5	0.65	129.3	131.7	138.1	147.0	156.6	165.2	167.5
	14-18 y	428	172.2	0.49	157.4	161.6	167.2	172.3	177.2	181.4	185.1
Waist circumference (cm)	2-3 y	225	48.3	0.16	44.2	45.0	46.4	48.5	50.1	51.1	52.3
	4-8 y	568	54.5	0.20	48.6	49.6	51.6	54.1	56.9	59.5	61.5
	9-13 y	481	64.3	0.33	55.5	57.1	59.5	63.8	68.4	72.1	75.3
	14-18 y	420	74.8	0.42	65.6	67.3	70.5	74.1	78.5	83.3	85.1
Average sagittal abdominal diameter (cm)*	9-13 y	250	14.4	0.09	12.4	12.7	13.3	14.3	15.1	16.2	16.9
	14-18 y	226	16.6	0.10	14.3	14.9	15.6	16.5	17.6	18.5	18.9
Waist:hip ratio**	12-13 y	86	0.84	0.01	0.77	0.79	0.80	0.84	0.86	0.90	0.92
	14-18 y	192	0.82	0.01	0.77	0.78	0.79	0.81	0.85	0.88	0.89

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-20b Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with Body Mass Index 5th Percentile to <85th Percentile, by Single Years of Age, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles							
					5th	10th	25th	50th	75th	90th	95th	
Body mass index (kg/m ²)	4	121	15.8	0.06	14.6	14.9	15.3	15.7	16.2	16.6	16.7	
	5	114	15.5	0.11	13.9	14.2	14.9	15.5	16.1	16.6		
	6	120	15.5	0.08	14.2	14.5	14.8	15.4	16.0	16.4	16.7	
	7	122	15.8	0.09	14.1	14.4	15.0	15.8	16.6	17.2	17.4	
	8	131	16.0	0.10	14.0	14.2	14.9	15.9	16.8	17.7	18.0	
	9	121	16.5	0.12		14.6	15.4	16.3	17.4	18.4	18.7	
	10	100	16.9	0.14	14.7	14.9	15.8	16.7	17.9	19.1	19.4	
	11	86	17.2	0.20	15.1	15.3	15.8	17.0	18.4	19.3	19.7	
	12	100	18.1	0.22	15.5	15.6	16.6	17.9	19.5	20.3	20.9	
	13	96	19.0	0.21	16.3	16.6	17.5	19.0	20.3	21.5	21.8	
	14	89	19.4	0.23	16.6	17.4	17.8	19.2	20.9	21.7	21.9	
	15	81	20.2	0.17	17.4	17.6	18.8	20.3	21.5	22.2	22.7	
	16	91	21.2	0.17	18.2	18.7	19.9	21.0	22.4	23.4	24.0	
	17	93	21.8	0.27	18.5	18.9	20.3	21.7	23.1	24.5	24.8	
	18	74	21.9	0.32	19.0	19.5	20.0	21.2	23.8	24.9	25.5	
	Weight (kg)	0-6 mo										
		7-11 mo										
		1										
2		145	13.6	0.12	11.3	11.8	12.6	13.4	14.3	15.4	16.2	
3		120	15.2	0.12	13.2	13.5	14.3	15.0	16.0	16.6	17.3	
4		121	17.4	0.16	14.4	15.4	16.4	17.4	18.3	19.4	20.6	
5		114	19.6	0.29	15.8	16.7	17.9	19.5	20.9	22.4	23.0	
6		120	21.5	0.27	17.7	18.3	19.8	21.2	23.0	24.7	25.5	
7		122	24.7	0.29	20.0	20.4	22.3	24.9	26.9	28.4	29.6	
8		131	27.4	0.42	21.9	22.6	24.4	26.8	29.6	32.8	33.5	
9		121	29.6	0.28	23.2	25.2	27.0	29.2	32.2	34.3	35.5	
10		100	33.5	0.58	26.4	27.6	30.5	32.9	36.6	39.8	41.5	
11		86	37.2	0.65	28.4	30.2	33.7	36.8	40.0	45.2	47.1	
12		100	42.8	0.89	30.5	33.2	37.3	42.3	47.7	51.0	53.3	
13		96	49.9	0.71	38.6	40.6	45.4	49.9	54.2	57.5	59.0	
14		89	54.1	1.01	42.6	43.1	47.0	54.9	59.0	63.5	66.2	
15		81	59.3	0.77	48.6	50.6	55.0	59.2	64.2	66.9	67.8	
16	91	63.3	0.82	51.9	53.6	58.2	63.3	67.7	73.8	76.3		

	17	93	67.6	1.22	54.2	57.2	60.3	66.8	73.7	76.7	83.3
	18	74	67.0	0.74	56.9	58.5	62.5	65.4	71.4	75.2	78.6
Height (cm)	0-6 mo										
	7-11 mo										
	1										
	2	145	91.2	0.33	84.3	85.6	88.4	90.9	94.0	96.7	98.6
	3	120	97.9	0.43	90.4	92.5	95.5	97.6	100.8	102.8	104.2
	4	121	105.1	0.47	96.9	99.9	102.1	104.8	107.5	111.2	112.8
	5	114	112.1	0.60	102.6	104.9	108.6	112.2	115.8	118.7	120.2
	6	120	117.7	0.51	109.0	110.2	113.7	117.0	121.5	125.7	126.2
	7	122	124.8	0.55	115.2	117.5	121.1	125.1	128.5	132.0	132.6
	8	131	130.7	0.79	119.0	121.6	127.1	129.7	134.2	140.0	143.1
	9	121	133.8	0.60	119.7	125.1	130.0	134.5	138.2	140.6	141.2
	10	100	140.4	0.97	130.2	131.2	134.7	140.4	145.7	148.4	149.7
	11	86	146.8	0.99	135.9	136.9	141.2	146.5	151.8	157.0	159.6
	12	100	153.3	1.02	140.0	140.5	147.7	153.1	158.6	165.9	168.3
	13	96	161.6	0.73	148.5	151.4	155.5	163.0	166.0	170.6	171.8
	14	89	166.8	0.90	153.8	156.3	161.0	167.4	171.7	176.1	176.9
	15	81	171.4	1.07	160.5	160.9	166.9	172.2	175.4	179.4	181.0
	16	91	172.5	1.00	160.2	163.2	166.4	172.2	178.8	184.4	185.8
	17	93	175.9	0.92	163.7	167.4	170.7	175.8	180.0	185.0	188.9
	18	74	175.1	0.99	163.9	167.2	170.7	175.4	179.7	181.0	184.8
Waist circumference (cm)	2	121	47.6	0.26	42.3	44.2	45.9	47.6	49.4	50.8	51.5
	3	104	48.9	0.26	45.2	45.7	47.0	49.1	50.3	51.4	52.5
	4	106	51.2	0.29	47.5	48.1	49.4	50.9	53.1	54.3	54.8
	5	107	52.7	0.25	48.7	49.3	50.6	52.6	54.3	55.9	56.3
	6	111	53.7	0.36	48.5	49.3	51.2	53.4	56.1	57.5	58.6
	7	116	56.1	0.29	50.9	51.6	53.7	56.2	58.5	59.5	60.8
	8	128	57.9	0.47	52.0	52.6	55.2	57.4	59.9	62.9	63.5
	9	115	60.2	0.32	54.6	54.8	57.2	59.4	62.5	65.7	67.6
	10	98	61.4	0.54	54.8	56.0	57.4	61.1	64.2	66.9	69.9
	11	81	63.3	0.53	55.4	57.3	59.4	62.3	66.9	70.7	72.1
	12	96	66.5	0.62	59.1	59.4	61.9	65.3	70.4	74.9	76.3
	13	91	69.3	0.53	61.1	62.8	64.7	69.8	71.6	76.0	76.9
	14	86	70.9	0.82	62.7	65.1	66.8	70.5	73.5	78.2	79.5

15	81	72.9	0.58	65.5	66.5	69.1	71.9	76.6	79.1	80.3
16	90	75.8	0.54	67.7	69.2	72.1	75.5	79.3	81.7	84.0
17	90	77.6	0.85	69.1	70.1	73.3	76.1	82.1	84.4	87.9
18	73	77.0	0.89	67.9	70.0	71.9	74.8	80.4	85.5	88.2

Average Sagittal
Abdominal
Diameter (cm)*

9	57	13.8	0.14	11.7	12.2	13.0	13.7	14.5	15.3	15.4
10	49	14.0	0.13	12.5	12.7	13.1	13.8	14.5	15.5	16.9
11	44	13.9	0.18		12.3	13.0	13.6	14.6	15.6	16.2
12	53	14.7	0.15	12.6	12.8	13.6	14.7	15.3	16.2	17.0
13	47	15.1	0.13	12.9	13.2	14.2	14.8	16.1	16.9	17.4
14	53	15.7	0.25	13.8	14.3	15.0	15.4	16.3	17.5	17.8
15	43	16.5	0.19	14.0	14.3	15.7	16.5	17.2	18.0	18.4
16	46	16.6	0.25	15.0	15.5	15.8	16.2	17.1	18.3	18.6
17	48	17.3	0.22	14.6	15.5	16.1	17.3	18.2	19.0	
18	37	17.4	0.37	15.5	15.6	16.6	17.3	18.1	18.9	19.6

Waist:Hip
Ratio**

12	42	0.85	0.01	0.79	0.80	0.81	0.85	0.88	0.89	0.90
13	44	0.83	0.01	0.77	0.77	0.79	0.82	0.86	0.89	0.92
14	33	0.83	0.01	0.77	0.78	0.80	0.81	0.86	0.87	0.88
15	38	0.81	0.01	0.76	0.78	0.79	0.80	0.83	0.85	0.86
16	44	0.83	0.01	0.77	0.78	0.79	0.82	0.86	0.88	0.88
17	41	0.83	0.01	0.78	0.79	0.80	0.82	0.86	0.87	0.89
18	36	0.82	0.01		0.77	0.79	0.81	0.84	0.90	0.90

Blank cell = Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-21a Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with Body Mass Index 5th percentile to <85th percentile, by age group, NHANES 2015-2018

Measure	Age	n	Mean	SE	Percentiles						
					5th	10th	25th	50th	75th	90th	95th
BMI	2-3 y	273	15.9	0.05	14.3	14.7	15.3	15.8	16.5	16.9	17.1
	4-8 y	588	15.6	0.04	13.9	14.2	14.8	15.6	16.3	16.8	17.3
	9-13 y	517	17.9	0.11	15.1	15.5	16.2	17.6	19.1	20.5	21.0
	14-18 y	413	21.2	0.11	18.1	18.5	19.6	21.3	22.7	23.9	24.5
Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	273	13.9	0.12	11.1	11.6	12.6	14.0	14.8	16.3	17.2
	4-8 y	588	21.2	0.19	15.3	15.9	17.9	20.6	24.0	27.0	28.3
	9-13 y	517	38.7	0.52	26.5	28.1	31.7	37.5	44.7	50.7	52.6
	14-18 y	413	55.8	0.45	45.2	46.9	50.8	55.5	60.1	64.9	67.5
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	273	93.4	0.41	84.7	86.1	89.4	93.5	96.9	100.5	103.0
	4-8 y	588	116.1	0.51	99.6	102.7	108.0	115.8	123.1	129.3	131.5
	9-13 y	517	146.4	0.75	128.3	131.9	138.3	146.0	154.9	160.3	163.8
	14-18 y	413	161.9	0.47	151.2	153.7	157.6	161.6	166.1	170.4	173.0
Waist circumference (cm)	2-3 y	232	48.4	0.20	43.4	44.5	46.3	48.4	50.9	51.7	53.3
	4-8 y	552	53.8	0.20	48.0	48.9	50.8	53.5	56.2	59.3	60.9
	9-13 y	496	65.5	0.33	55.5	57.1	60.7	65.2	70.0	74.1	77.0
	14-18 y	400	75.0	0.34	66.6	68.0	71.0	74.8	78.0	82.3	84.9
Average Sagittal Abdominal Diameter (cm)*	9-13 y	271	14.6	0.11	12.0	12.5	13.4	14.6	15.5	16.5	17.2
	14-18 y	208	16.3	0.08	14.1	14.5	15.1	16.1	17.3	18.3	18.7
Waist:Hip Ratio**	12-13 y	62	0.82	0.01	0.75	0.75	0.79	0.82	0.85	0.88	0.89
	14-18 y	190	0.81	0.01	0.73	0.75	0.78	0.81	0.84	0.87	0.88

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-21b Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with Body Mass Index 5th percentile to <85th percentile, by Single Years of Age, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles							
					5th	10th	25th	50th	75th	90th	95th	
Body mass index (kg/m ²)	4	132	15.5	0.10	14.1	14.4	14.9	15.6	16.2	16.4	16.5	
	5	126	15.4	0.10	13.9	14.1	14.6	15.3	16.0	16.6	16.7	
	6	110	15.4	0.15	13.7	13.9	14.4	15.4	16.2	16.6	17.0	
	7	115	15.7	0.10	14.1	14.3	15.0	15.6	16.5	16.9	17.5	
	8	105	16.1	0.12	13.7	14.3	15.0	16.1	17.1	17.8	18.3	
	9	150	16.7	0.13	14.9	15.2	15.8	16.4	17.7	18.6	18.9	
	10	105	17.4	0.20	14.4	14.9	15.9	17.2	19.0	19.6	20.1	
	11	112	18.0	0.20	15.2	15.6	16.8	17.8	19.3	20.5	20.8	
	12	76	18.6	0.31	15.5	16.1	16.9	18.4	20.2	21.3	21.7	
	13	74	19.1	0.30	16.3	16.9	17.5	19.1	20.5	21.7	22.6	
	14	93	20.5	0.23	17.6	18.0	19.3	20.6	22.1	22.6	23.0	
	15	77	20.8	0.24	17.8	18.4	19.3	20.7	21.9	23.1	23.8	
	16	95	21.7	0.30	18.3	19.0	20.3	21.6	23.1	24.3	24.6	
	17	75	21.5	0.27	18.1	18.5	19.7	21.7	23.0	24.1	24.5	
	18	73	21.8	0.31	18.3	19.4	20.4	21.6	23.3	24.4	25.1	
	Weight (kg)	0-6 mo										
		7-11 mo										
		1										
2		164	12.9	0.13	10.6	11.1	11.8	12.8	14.0	14.6	15.1	
3		109	14.9	0.12	12.6	13.0	13.9	14.6	15.6	17.2	17.6	
4		132	17.0	0.24	14.0	14.7	15.7	16.9	18.1	19.6	20.1	
5		126	18.9	0.35	15.1	15.9	17.1	18.7	19.9	22.3	23.9	
6		110	21.5	0.25	17.4	18.3	19.9	21.3	22.8	24.3	25.2	
7		115	23.8	0.32	19.3	19.9	21.3	23.8	26.0	27.7	28.7	
8		105	26.6	0.42	21.1	21.7	23.9	26.0	28.2	32.9	34.5	
9		150	31.1	0.38	24.0	25.5	28.2	30.9	34.0	34.9	38.5	
10		105	34.8	0.72	24.4	27.0	30.4	34.5	38.8	41.7	45.4	
11	112	40.1	0.80	28.8	30.6	36.1	39.3	43.5	51.1	52.4		

	12	76	44.2	0.88	32.1	34.8	39.3	44.1	49.7	52.2	56.7
	13	74	47.3	0.79	35.8	38.4	43.4	48.4	51.3	53.0	54.4
	14	93	53.2	1.01	45.0	45.2	47.1	52.0	57.4	62.3	63.4
	15	77	54.1	0.92	43.9	45.5	50.2	53.5	58.2	62.3	64.6
	16	95	57.1	0.91	48.8	49.4	52.2	56.9	61.4	65.7	68.6
	17	75	57.9	1.28	46.4	48.2	51.9	57.4	62.3	67.4	70.9
	18	73	57.2	1.06	44.8	47.8	52.6	57.0	62.8	66.0	67.7
Height (cm)	0-6 mo										
	7-11 mo										
	1										
	2	164	89.7	0.37	82.9	84.7	86.6	89.7	92.7	94.4	95.6
	3	109	97.4	0.32	90.5	91.8	94.9	96.8	99.3	103.1	104.4
	4	132	104.6	0.57	96.5	98.1	101.3	103.9	107.9	111.8	113.0
	5	126	110.8	0.81	101.8	102.6	107.0	110.5	114.0	118.0	121.9
	6	110	118.1	0.57	108.7	110.0	113.8	118.8	121.8	123.7	126.9
	7	115	122.9	0.56	113.7	116.0	119.2	123.2	126.1	130.2	131.5
	8	105	128.0	0.84	118.9	120.3	122.9	128.5	130.9	138.2	139.7
	9	150	136.2	0.65	125.1	128.0	130.8	136.2	140.5	145.6	146.0
	10	105	140.8	0.80	127.5	130.8	136.4	140.1	145.2	149.6	152.6
	11	112	148.6	0.96	134.4	138.6	142.7	148.5	155.1	159.7	161.3
	12	76	154.0	0.93	140.4	143.9	150.8	154.1	157.5	162.3	164.9
	13	74	157.2	0.81	144.4	150.1	153.4	157.1	161.6	164.5	165.3
	14	93	161.0	1.01	149.6	151.2	156.9	161.2	165.9	169.5	170.3
	15	77	161.2	0.94	151.5	153.3	156.1	159.9	165.4	171.3	172.8
	16	95	162.1	0.74	152.3	154.5	158.0	162.3	166.5	168.6	173.0
	17	75	163.8	1.19	153.6	155.5	157.8	163.0	169.7	171.9	175.9
	18	73	161.7	0.83	150.4	154.1	159.1	161.9	165.2	166.8	167.7
Waist circumference (cm)	2	136	47.3	0.31	42.8	43.6	45.1	47.1	49.4	51.2	51.8
	3	96	49.6	0.27	45.6	45.8	47.5	49.7	51.2	52.8	54.0
	4	119	51.0	0.36	46.7	47.7	49.1	50.8	52.7	55.1	56.4
	5	113	52.5	0.37	47.0	48.6	49.9	52.3	54.6	56.7	57.7
	6	106	53.6	0.26	48.5	49.6	51.5	53.6	54.9	57.3	58.3

7	113	55.8	0.44	48.2	50.5	52.9	55.2	59.1	60.8	61.7
8	101	57.0	0.45	51.0	52.5	54.3	56.7	59.4	61.9	63.7
9	141	61.0	0.45	54.0	55.2	57.2	59.9	63.5	67.6	71.0
10	101	63.4	0.61	54.2	56.5	58.5	62.7	68.7	70.4	71.9
11	111	66.3	0.66	58.1	60.0	61.9	65.2	69.4	73.8	76.3
12	71	68.3	0.81	57.9	60.5	64.4	68.6	72.1	74.7	77.5
13	72	70.6	0.86	62.0	63.8	66.4	70.0	73.5	77.8	79.8
14	88	73.6	0.70	63.7	66.8	70.2	72.6	77.0	81.3	82.4
15	75	73.3	0.67	64.2	67.3	69.3	74.2	76.2	79.2	79.5
16	95	75.8	0.53	68.4	70.1	72.5	74.5	79.1	81.0	84.3
17	73	76.5	0.88	67.4	69.6	72.5	75.9	80.0	83.1	85.9
18	69	76.1	1.38	66.6	67.1	69.2	76.0	81.1	85.5	89.3

Average Sagittal
Abdominal
Diameter (cm)*

9	80	13.8	0.15	11.6	12.0	12.6	13.6	14.8	15.3	15.5
10	52	13.9	0.19		11.9	12.8	13.7	14.9	15.5	16.2
11	63	15.0	0.26	13.0	13.1	13.9	14.9	15.6	16.7	17.1
12	39	15.3	0.24	13.4	13.8	14.1	15.0	16.0	17.1	17.3
13	37	15.3	0.29	13.1	13.2	14.2	15.4	16.0	17.3	17.6
14	49	16.0	0.16	12.8	14.3	15.0	15.8	17.2	17.7	18.3
15	43	16.0	0.21	0.0	14.5	14.9	15.9	16.7	17.2	17.5
16	46	16.5	0.30	14.6	14.7	15.5	16.3	17.5	18.1	18.5
17	36	16.8	0.33	14.1	14.5	15.2	16.7	18.2	18.9	19.0
18	34	16.1	0.38			14.6	15.9	17.3	18.3	18.4

Waist:Hip Ratio**

12	27	*	*	*	*	*	*	*	*	*
13	35	0.82	0.01	0.75	0.75	0.78	0.82	0.84	0.88	
14	39	0.80	0.01	0.72	0.74	0.77	0.80	0.84	0.87	0.87
15	32	0.81	0.01	0.76	0.76	0.78	0.81	0.83	0.86	0.87
16	48	0.80	0.00	0.75	0.76	0.77	0.80	0.83	0.85	0.85
17	37	0.80	0.01	0.71	0.75	0.77	0.79	0.84	0.85	0.88
18	34	0.82	0.02			0.77	0.82	0.85	0.88	

* Sample size <30

Blank cell = Percentile not calculated using SUDAAN due to small sample size

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-22 Body Measurement Summary Statistics, Men 19 years of Age and Older with Body Mass Index ≥ 25 and $< 30 \text{ kg/m}^2$, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Min	Max	Percentiles						
							5th	10th	25th	50th	75th	90th	95th
BMI	19-30	282	27.2	0.11	25.0	29.5	25.1	25.3	26.1	27.0	28.1	29.1	29.5
	31-50	590	27.5	0.09	25.0	29.9	25.2	25.5	26.2	27.5	28.7	29.3	29.6
	51-70	691	27.5	0.09	25.0	29.9	25.1	25.4	26.4	27.5	28.7	29.3	29.6
	>70	329	27.3	0.08	25.0	29.9	25.2	25.4	26.1	27.1	28.3	29.1	29.5
	19+	1892	27.4	0.05	25.0	29.9	25.1	25.4	26.2	27.4	28.6	29.3	29.6
Weight (kg)	19-30	282	84.0	0.73	58.8	110.1	71.5	75.1	78.9	83.3	89.1	96.2	97.7
	31-50	590	85.4	0.52	61.0	122.6	71.5	74.2	79.5	84.9	90.3	97.6	101.2
	51-70	691	83.9	0.60	56.1	110.7	70.5	73.5	77.4	83.0	90.2	95.5	98.1
	>70	329	80.7	0.55	57.1	98.7	68.2	70.1	75.1	80.1	85.6	91.9	93.8
	19+	1892	84.1	0.39	56.1	122.6	70.4	73.4	78.0	83.5	89.7	95.8	99.2
Height (cm)	19-30	282	175.6	0.64	150.8	194.5	163.3	165.6	170.3	176.1	180.8	185.2	187.6
	31-50	590	176.1	0.53	152.8	202.7	162.1	166.0	171.2	175.7	181.4	186.6	189.0
	51-70	691	174.4	0.45	148.8	195.6	162.1	164.6	169.4	174.6	179.3	183.5	185.0
	>70	329	171.9	0.57	149.8	193.1	160.0	162.8	166.6	171.3	177.4	182.0	185.1
	19+	1892	175.0	0.36	148.8	202.7	161.7	164.8	169.6	175.0	180.3	184.7	187.9
Waist circumference (cm)	19-30	273	93.0	0.52	76.0	109.8	82.9	84.7	88.5	92.5	97.0	102.0	105.0
	31-50	567	97.6	0.44	77.0	120.4	87.6	89.9	93.1	97.3	101.6	106.3	108.1
	51-70	671	101.0	0.42	75.0	116.3	91.9	93.8	96.6	101.1	104.6	109.3	110.5
	>70	302	103.8	0.46	86.7	120.6	93.0	95.0	100.0	104.1	107.6	111.1	114.3
	19+	1813	98.7	0.29	75.0	120.6	87.2	90.0	93.9	98.6	103.5	107.7	110.0
Average Sagittal Abdominal Diameter (cm)*	19-30	158	21.2	0.22	17.4	25.1	18.2	18.8	19.8	21.2	22.5	23.4	24.0
	31-50	295	22.4	0.18	17.4	27.1	19.4	19.9	20.9	22.2	23.6	25.1	25.5
	51-70	324	22.8	0.18	17.9	29.8	20.0	20.6	21.6	22.7	23.9	25.0	25.8
	>70	151	23.8	0.13	19.2	28.1	20.5	21.3	22.4	23.6	25.2	26.4	27.1
	19+	928	22.5	0.15	17.4	29.8	19.2	19.9	21.0	22.4	23.7	25.1	25.8
Waist:Hip Ratio**	19-30	115	0.90	0.00	0.77	1.03	0.83	0.84	0.86	0.88	0.93	0.96	0.99
	31-50	271	0.95	0.01	0.81	1.11	0.87	0.88	0.92	0.95	0.97	1.02	1.04
	51-70	341	1.00	0.00	0.77	1.12	0.92	0.94	0.97	1.00	1.02	1.06	1.08
	>70	148	1.01	0.00	0.88	1.11	0.94	0.95	0.98	1.01	1.03	1.07	1.09
	19+	875	0.97	0.00	0.77	1.12	0.86	0.88	0.93	0.97	1.01	1.04	1.06

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-23 Body Measurement Summary Statistics, Women 19 years of Age and Older with Body Mass Index ≥ 25 and $< 30 \text{ kg/m}^2$, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Min	Max	Percentiles						
							5 th	10 th	25 th	50 th	75 th	90 th	95 th
BMI	19-30	225	27.2	0.12	25.0	29.9	25.1	25.2	26.0	27.0	28.3	29.2	29.5
	31-50	447	27.5	0.09	25.0	29.9	25.1	25.4	26.2	27.5	28.7	29.3	29.5
	51-70	555	27.4	0.10	25.0	29.9	25.1	25.3	26.1	27.3	28.6	29.3	29.6
	>70	284	27.4	0.11	25.0	29.9	25.2	25.4	26.0	27.5	28.5	29.2	29.6
	19+	1511	27.4	0.06	25.0	29.9	25.1	25.3	26.1	27.3	28.5	29.3	29.5
Weight (kg)	19-30	225	71.7	0.66	53.7	93.8	60.1	62.5	67.1	71.1	75.7	80.3	83.9
	31-50	447	72.4	0.50	54.1	94.0	60.9	64.0	67.6	71.6	76.5	81.9	85.5
	51-70	555	70.6	0.40	50.4	89.8	59.8	61.6	66.2	70.9	74.9	78.1	81.1
	>70	284	67.9	0.51	52.2	85.2	57.7	59.4	63.5	67.3	72.0	76.0	78.5
	19+	1511	70.9	0.29	52.2	94.0	59.6	61.8	66.2	70.8	75.2	79.3	82.6
Height (cm)	19-30	225	162.2	0.57	139.9	183.4	150.0	152.9	157.5	162.8	166.6	170.5	172.7
	31-50	447	162.2	0.45	137.6	182.4	150.4	152.8	157.9	162.1	166.9	170.8	173.6
	51-70	555	160.5	0.45	138.3	187.6	149.6	152.7	155.7	160.9	165.4	168.0	169.8
	>70	284	157.3	0.52	140.8	179.6	145.5	148.8	153.0	156.7	161.3	166.7	169.1
	19+	1511	160.8	0.30	137.6	187.6	149.4	152.0	155.9	160.9	165.7	169.3	172.2
Waist circumference (cm)	19-30	214	90.4	0.47	73.3	105.8	81.1	82.8	86.1	90.4	94.2	98.1	101.9
	31-50	418	92.7	0.45	76.0	110.7	83.2	84.8	87.6	92.4	97.1	101.5	103.9
	51-70	538	95.3	0.45	77.2	116.0	84.7	86.3	91.3	95.6	99.7	102.9	105.3
	>70	250	98.3	0.43	81.2	115.3	87.8	89.4	93.4	98.4	102.2	106.4	108.9
	19+	1420	94.1	0.36	76.0	115.3	83.6	85.2	89.3	93.9	98.7	102.8	105.3
Average Sagittal Abdominal Diameter (cm)*	19-30	124	20.1	0.13	16.7	25.3	17.8	18.1	19.0	20.0	20.7	21.9	22.9
	31-50	207	20.6	0.16	15.9	25.9	17.9	18.3	19.0	20.6	21.6	23.2	23.7
	51-70	251	21.5	0.20	17.4	27.1	18.2	19.0	20.3	21.4	23.0	23.9	24.7
	>70	109	22.7	0.23	18.4	26.8	19.8	20.1	21.5	22.6	24.1	24.6	25.2
	19+	691	21.2	0.11	15.9	27.1	18.0	18.5	19.7	21.0	22.6	23.7	24.5
Waist:Hip Ratio**	19-30	88	0.87	0.01	0.70	1.05	0.78	0.81	0.84	0.87	0.91	0.95	0.96
	31-50	209	0.87	0.00	0.72	1.09	0.78	0.80	0.83	0.87	0.91	0.96	0.97
	51-70	286	0.92	0.01	0.73	1.11	0.82	0.85	0.88	0.92	0.96	1.00	1.01
	>70	137	0.94	0.00	0.77	1.17	0.84	0.86	0.89	0.94	0.98	1.01	1.02
	19+	720	0.90	0.00	0.70	1.17	0.80	0.82	0.85	0.90	0.94	0.98	1.01

Note: Pregnant and lactating women excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-24a Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with Body Mass Index 85th percentile to <95th percentile, NHANES 2015-2018

Measure	Age	n	Mean	SE	Percentiles						
					5th	10th	25th	50th	75th	90th	95th
BMI	2-3 y	58	17.7	0.09	17.0	17.1	17.3	17.6	18.0	18.4	18.5
	4-8 y	130	18.2	0.11	17.0	17.2	17.4	17.8	18.8	19.6	19.9
	9-13 y	132	21.9	0.14	19.6	19.8	20.6	21.6	22.9	24.0	24.3
	14-18 y	124	25.6	0.15	23.4	23.8	24.4	25.8	26.6	27.2	27.5
Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	58	16.9	0.37	13.4	14.3	15.3	16.9	18.1	19.7	.
	4-8 y	130	27.3	0.83	17.8	20.2	21.9	26.2	32.5	36.7	38.0
	9-13 y	132	48.3	1.09	35.1	37.2	40.7	45.6	55.3	64.1	68.6
	14-18 y	124	78.0	1.04	63.4	64.7	71.4	77.6	83.7	90.0	90.3
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	58	97.6	1.23	85.4	89.1	92.5	97.7	102.1	107.5	.
	4-8 y	130	121.5	1.48	102.2	107.1	111.9	121.2	130.1	137.2	140.4
	9-13 y	132	147.7	1.20	133.7	135.2	138.8	145.6	155.1	166.1	169.8
	14-18 y	124	174.3	0.93	160.2	163.4	168.9	174.9	180.4	184.8	185.6
Waist circumference (cm)	2-3 y	50	52.1	0.44	47.2	48.3	50.1	52.5	54.1	54.6	54.8
	4-8 y	121	60.1	0.67	51.9	53.9	56.1	59.1	63.4	67.6	69.2
	9-13 y	131	76.8	0.64	67.9	69.2	71.6	76.2	80.8	85.6	90.4
	14-18 y	119	87.5	0.76	77.3	79.1	83.0	87.1	91.5	96.3	98.1
Average Sagittal Abdominal Diameter (cm)*	9-13 y	81	17.1	0.24	14.4	15.5	16.1	16.9	17.9	19.4	19.7
	14-18 y	66	19.0	0.31	16.7	17.0	17.7	18.9	19.8	21.5	21.8
Waist:Hip Ratio**	12-13 y	10	*	*	*	*	*	*	*	*	*
	14-18 y	53	0.87	0.01	0.80	0.82	0.84	0.87	0.89	0.92	0.96

* Sample size <30

. Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-24b Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with Body Mass Index 85th percentile to <95th percentile, by Single Years of Age, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles								
					5th	10th	25th	50th	75th	90th	95th		
Body mass index (kg/m ²)	4	23	*	*	*	*	*	*	*	*	*	*	
	5	28	*	*	*	*	*	*	*	*	*	*	
	6	22	*	*	*	*	*	*	*	*	*	*	
	7	28	*	*	*	*	*	*	*	*	*	*	
	8	29	*	*	*	*	*	*	*	*	*	*	
	9	27	*	*	*	*	*	*	*	*	*	*	
	10	40	21.2	0.15	19.7	19.8	20.2	21.4	21.9	22.3	22.4		
	11	29	*	*	*	*	*	*	*	*	*	*	
	12	19	*	*	*	*	*	*	*	*	*	*	
	13	17	*	*	*	*	*	*	*	*	*	*	
	14	36	24.4	0.17	22.8	23.3	23.5	24.2	25.3	25.9	26.1		
	15	31	25.0	0.20	.	.	24.1	24.5	25.7	26.5	.		
	16	29	*	*	*	*	*	*	*	*	*	*	
	17	12	*	*	*	*	*	*	*	*	*	*	
	18	16	*	*	*	*	*	*	*	*	*	*	
	Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS										
		7-11 mo	NO BMI CATEGORIES FOR <2 YEARS										
		1	NO BMI CATEGORIES FOR <2 YEARS										
2		29	*	*	*	*	*	*	*	*	*	*	
3		29	*	*	*	*	*	*	*	*	*	*	
4		23	*	*	*	*	*	*	*	*	*	*	
5		28	*	*	*	*	*	*	*	*	*	*	
6		22	*	*	*	*	*	*	*	*	*	*	
7		28	*	*	*	*	*	*	*	*	*	*	
8		29	*	*	*	*	*	*	*	*	*	*	
9		27	*	*	*	*	*	*	*	*	*	*	
10		40	42.5	0.46	37.1	38.7	40.2	41.7	44.2	47.8	48.3		
11		29	*	*	*	*	*	*	*	*	*	*	
12		19	*	*	*	*	*	*	*	*	*	*	
13		17	*	*	*	*	*	*	*	*	*	*	
14		36	72.1	1.34	58.7	62.1	66.0	72.1	77.6	79.8	80.1		
15		31	73.1	1.18	57.1	61.6	68.4	74.0	77.6	80.6	81.4		
16		29	*	*	*	*	*	*	*	*	*	*	
17	12	*	*	*	*	*	*	*	*	*	*		
18	16	*	*	*	*	*	*	*	*	*	*		
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS											
	7-11 mo	NO BMI CATEGORIES FOR <2 YEARS											

10	22	*	*	*	*	*	*	*	*	*
11	21	*	*	*	*	*	*	*	*	*
12	13	*	*	*	*	*	*	*	*	*
13	13	*	*	*	*	*	*	*	*	*
14	18	*	*	*	*	*	*	*	*	*
15	19	*	*	*	*	*	*	*	*	*
16	15	*	*	*	*	*	*	*	*	*
17	7	*	*	*	*	*	*	*	*	*
18	7	*	*	*	*	*	*	*	*	*
Waist:Hip Ratio**										
12	6	*	*	*	*	*	*	*	*	*
13	4	*	*	*	*	*	*	*	*	*
14	16	*	*	*	*	*	*	*	*	*
15	11	*	*	*	*	*	*	*	*	*
16	13	*	*	*	*	*	*	*	*	*
17	5	*	*	*	*	*	*	*	*	*
18	8	*	*	*	*	*	*	*	*	*

* Sample size <30

Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-25a Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with Body Mass Index 85th percentile to <95th percentile, NHANES 2015-2018

Measure	Age	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
BMI	2-3 y	52	17.7	0.05	17.1	17.2	17.4	17.6	17.9	18.1	18.2
	4-8 y	146	18.3	0.09	16.9	17.1	17.4	18.0	19.0	20.0	20.2
	9-13 y	162	23.0	0.18	20.4	20.9	21.5	23.0	24.2	25.2	26.0
	14-18 y	153	26.6	0.19	.	24.4	25.3	26.5	27.8	29.0	29.1
Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	52	15.9	0.43	12.6	13.1	14.4	15.4	17.0	19.0	20.0
	4-8 y	146	26.0	0.54	17.5	18.7	21.2	25.5	29.8	34.1	36.8
	9-13 y	162	53.3	1.17	36.9	38.6	46.3	53.7	60.7	64.9	66.9
	14-18 y	153	70.1	0.79	59.5	61.0	63.6	70.8	74.9	80.7	83.2
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	52	94.7	1.27	83.7	85.6	89.4	93.8	97.6	104.3	107.1
	4-8 y	146	118.2	1.06	101.4	104.7	110.7	118.2	125.5	131.5	135.6
	9-13 y	162	151.4	1.23	131.8	136.5	145.5	152.7	158.9	163.8	164.5
	14-18 y	153	162.2	0.83	150.1	152.7	156.7	161.6	167.0	171.6	173.0
Waist circumference (cm)	2-3 y	43	51.9	0.59	47.6	48.8	49.7	51.1	53.6	55.3	56.2
	4-8 y	139	60.3	0.54	52.4	53.4	56.3	60.4	63.8	67.4	69.2
	9-13 y	159	78.2	0.56	68.7	69.5	73.7	78.2	81.8	85.9	87.7
	14-18 y	148	86.5	0.69	77.2	78.8	82.1	86.6	90.2	93.4	96.4
Average Sagittal Abdominal Diameter (cm)*	9-13 y	77	17.6	0.20	15.4	15.8	16.5	17.6	18.5	19.5	19.9
	14-18 y	93	19.7	0.19	17.1	17.8	18.5	19.4	20.8	21.9	22.3
Waist:Hip Ratio**	12-13 y	32	0.84	0.01	0.73	0.79	0.80	0.83	0.85	0.92	0.95
	14-18 y	55	0.84	0.01	0.71	0.78	0.81	0.83	0.88	0.90	0.92

. Percentile not calculated using SUDAAN due to small sample size

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-25b Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with Body Mass Index 85th percentile to <95th percentile, by Single Years of Age, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles							
					5 th	10 th	25 th	50 th	75 th	90 th	95 th	
Body mass index (kg/m ²)	4	31	17.3	0.07	.	16.8	17.0	17.3	17.5	17.8	.	
	5	25	*	*	*	*	*	*	*	*	*	
	6	29	*	*	*	*	*	*	*	*	*	
	7	29	*	*	*	*	*	*	*	*	*	
	8	32	19.8	0.16	18.7	18.9	19.0	19.8	20.2	20.5	20.7	
	9	30	21.0	0.16	.	20.0	20.4	21.0	21.4	21.7	21.9	
	10	30	21.8	0.11	20.4	20.6	21.2	21.7	22.1	22.9	23.1	
	11	41	22.9	0.24	21.0	21.1	21.5	23.0	23.7	24.0	24.4	
	12	30	23.6	0.20	22.1	22.3	22.8	23.2	24.2	24.9	25.1	
	13	31	25.0	0.19	23.1	23.5	24.2	24.7	25.9	26.1	26.2	
	14	39	25.0	0.21	.	.	23.9	24.9	25.4	26.7	26.8	
	15	17	*	*	*	*	*	*	*	*	*	
	16	33	26.8	0.27	25.2	25.2	25.6	26.3	27.8	28.8	28.9	
	17	39	27.7	0.30	25.8	25.9	26.4	27.5	29.0	29.2	29.4	
	18	25	*	*	*	*	*	*	*	*	*	
	Weight (kg)	0-6 mo										
		7-11 mo										
		1										
2		28	*	*	*	*	*	*	*	*	*	
3		24	*	*	*	*	*	*	*	*	*	
4		31	19.4	0.68	14.7	17.2	18.1	19.0	21.1	21.4	22.1	
5		25	*	*	*	*	*	*	*	*	*	
6		29	*	*	*	*	*	*	*	*	*	
7		29	*	*	*	*	*	*	*	*	*	
8		32	34.1	0.53	28.4	29.4	31.3	33.9	36.8	37.7	38.8	
9		30	39.7	1.24	32.8	33.2	36.2	38.1	43.1	45.6	47.3	
10		30	48.1	0.98	40.4	40.7	44.9	48.1	50.9	53.9	54.0	
11		41	53.0	1.65	.	42.4	48.3	52.7	58.2	60.7	60.8	
12		30	57.9	0.68	51.9	53.0	53.5	56.0	61.7	63.4	66.9	
13		31	62.3	1.19	48.9	52.2	59.6	63.6	65.9	67.3	68.2	
14		39	67.9	1.59	58.4	58.8	61.0	64.8	74.1	80.6	80.8	
15		17	*	*	*	*	*	*	*	*	*	
16		33	69.9	1.66	59.1	61.6	62.9	70.4	72.7	78.6	82.7	
17	39	72.1	1.18	63.0	63.8	68.2	71.7	74.8	78.2	.		
18	25	*	*	*	*	*	*	*	*	*		
Height (cm)	0-6 mo											

Average Sagittal
Abdominal
Diameter (cm)*

9	13	*	*	*	*	*	*	*	*	*	*
10	18	*	*	*	*	*	*	*	*	*	*
11	19	*	*	*	*	*	*	*	*	*	*
12	9	*	*	*	*	*	*	*	*	*	*
13	18	*	*	*	*	*	*	*	*	*	*
14	20	*	*	*	*	*	*	*	*	*	*
15	11	*	*	*	*	*	*	*	*	*	*
16	22	*	*	*	*	*	*	*	*	*	*
17	26	*	*	*	*	*	*	*	*	*	*
18	14	*	*	*	*	*	*	*	*	*	*

Waist:Hip
Ratio**

12	19	*	*	*	*	*	*	*	*	*	*
13	13	*	*	*	*	*	*	*	*	*	*
14	18	*	*	*	*	*	*	*	*	*	*
15	6	*	*	*	*	*	*	*	*	*	*
16	8	*	*	*	*	*	*	*	*	*	*
17	13	*	*	*	*	*	*	*	*	*	*
18	10	*	*	*	*	*	*	*	*	*	*

* Sample size <30

. Percentile not calculated using SUDAAN due to small sample size

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-26 Body Measurement Summary Statistics, Men 19 years of Age and Older with Body Mass Index ≥ 30 kg/m², NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	min	max	Percentiles						
							5 th	10 th	25 th	50 th	75 th	90 th	95 th
BMI	19-30	308	35.7	0.42	30.0	62.0	30.3	30.7	31.8	34.1	37.7	42.6	45.6
	31-50	664	35.7	0.29	30.0	86.0	30.2	30.5	31.8	34.0	38.0	42.8	46.0
	51-70	703	35.0	0.24	30.0	57.0	30.3	30.7	31.5	33.7	36.7	41.6	44.8
	>70	269	34.1	0.26	30.0	56.0	30.2	30.6	31.5	33.4	35.3	37.5	40.3
	19+	1944	35.3	0.18	30.0	86.0	30.2	30.6	31.6	33.8	37.0	42.1	45.0
Weight (kg)	19-30	308	110.6	1.55	75.8	191.4	86.9	90.0	97.4	107.2	119.5	135.6	146.9
	31-50	664	111.7	0.99	72.2	242.6	86.2	90.4	97.3	106.9	122.0	140.9	153.3
	51-70	703	108.1	0.77	73.5	192.3	86.6	90.4	96.0	104.2	115.1	130.7	144.7
	>70	269	102.4	1.07	73.3	170.8	83.4	87.2	93.5	100.3	107.8	119.5	124.9
	19+	1944	109.4	0.59	72.2	242.6	86.3	90.1	96.8	105.0	118.8	134.1	146.6
Height (cm)	19-30	308	175.9	0.54	151.5	198.5	164.1	166.8	170.8	176.2	181.0	185.1	186.4
	31-50	664	176.5	0.39	149.6	194.6	164.6	166.7	171.5	176.9	181.5	185.6	187.9
	51-70	703	175.5	0.39	147.7	195.5	163.9	166.6	170.1	175.3	180.7	184.9	187.6
	>70	269	173.1	0.49	153.6	187.9	161.6	165.3	169.1	173.2	177.1	179.9	182.9
	19+	1944	175.7	0.23	147.7	198.5	164.0	166.6	170.5	175.9	180.7	185.0	187.5
Waist circumference (cm)	19-30	300	114.3	1.02	90.8	161.6	97.7	100.3	105.9	111.0	120.8	131.1	138.0
	31-50	638	116.9	0.81	92.2	162.7	99.9	102.3	106.8	113.7	124.2	135.1	144.5
	51-70	680	118.9	0.70	90.1	119.6	103.2	106.0	110.4	116.4	124.8	136.4	142.4
	>70	242	119.4	0.79	101.1	156.1	105.3	108.0	113.6	117.6	124.4	130.9	136.3
	19+	1860	117.4	0.48	90.1	162.7	100.4	103.2	108.6	114.9	123.9	135.2	141.8
Average Sagittal Abdominal Diameter (cm)*	19-30	142	26.7	0.44	20.1	38.1	21.5	22.2	24.3	25.9	28.4	31.9	35.4
	31-50	329	27.3	0.27	20.3	40.8	22.4	23.1	24.6	26.5	29.6	31.9	34.2
	51-70	318	28.2	0.25	20.8	39.9	23.9	24.8	25.6	27.8	29.7	32.9	35.4
	>70	99	28.2	0.31	22.2	38.3	24.5	25.5	26.2	27.6	29.5	31.1	33.2
	19+	888	27.5	0.18	20.1	40.8	22.5	23.5	25.2	27.0	29.5	32.0	34.6
Waist:Hip Ratio**	19-30	158	0.98	0.01	0.84	1.12	0.89	0.91	0.94	0.97	1.02	1.05	1.06
	31-50	304	1.01	0.01	0.87	1.24	0.91	0.93	0.97	1.01	1.05	1.08	1.10
	51-70	355	1.04	0.01	0.89	1.19	0.95	0.97	1.00	1.03	1.08	1.10	1.13
	>70	140	1.05	0.01	0.84	1.19	0.98	0.99	1.01	1.04	1.08	1.11	1.13
	19+	957	1.02	0.00	0.84	1.24	0.92	0.94	0.97	1.02	1.06	1.09	1.11

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-27 Body Measurement Summary Statistics, Women 19 years of Age and Older with Body Mass Index > 30 kg/m², NHANES 2015-2016

Measure	Age (y)	n	Mean	SE	min	max	Percentiles						
							5 th	10 th	25 th	50 th	75 th	90 th	95 th
BMI	19-30	347	37.4	0.43	30.0	66.2	30.6	31.3	32.5	35.6	40.6	44.9	48.8
	31-50	806	38.0	0.38	30.0	65.8	30.5	31.0	32.5	35.9	41.9	47.2	51.9
	51-70	908	36.8	0.30	30.0	84.4	30.5	30.9	32.1	35.2	39.3	45.0	48.9
	>70	322	35.1	0.47	30.0	63.6	30.1	30.4	31.2	33.5	36.7	42.0	45.9
	19+	2383	37.1	0.21	30.0	84.4	30.4	30.8	32.2	35.3	39.8	45.4	49.2
Weight (kg)	19-30	347	98.7	1.25	65.3	181.0	75.6	79.2	84.5	94.1	108.2	121.1	132.4
	31-50	806	100.2	1.11	64.0	179.2	74.9	77.9	85.3	94.6	110.7	130.3	138.4
	51-70	908	94.9	0.75	63.0	219.5	74.5	77.3	83.4	91.2	102.0	119.3	129.5
	>70	322	86.9	1.29	51.4	144.7	69.1	72.4	77.2	83.6	93.8	104.7	118.7
	19+	2383	96.3	0.62	51.4	219.5	73.5	76.7	83.2	91.9	104.8	122.1	132.5
Height (cm)	19-30	347	162.3	0.39	140.3	180.6	152.1	153.9	158.0	162.0	166.4	170.3	171.2
	31-50	806	162.1	0.18	139.0	189.3	150.9	153.1	157.5	162.5	166.7	170.6	172.6
	51-70	908	160.5	0.37	143.0	184.1	149.9	152.6	155.5	160.5	164.9	169.5	171.5
	>70	322	157.2	0.40	129.7	173.6	146.7	149.1	153.6	157.0	161.5	165.2	167.5
	19+	2383	160.9	0.18	129.7	189.3	149.8	152.6	156.1	161.1	165.4	169.6	171.5
Waist circumference (cm)	19-30	331	111.8	0.89	81.3	171.6	93.9	96.4	102.1	109.6	119.6	128.7	134.9
	31-50	769	114.5	0.90	85.8	169.6	95.6	97.8	103.1	111.1	122.1	135.6	144.5
	51-70	859	114.6	0.57	89.0	164.0	97.5	99.7	106.1	113.4	121.7	131.1	136.3
	>70	275	112.9	0.83	89.7	148.1	98.4	101.4	106.4	111.3	117.4	124.6	132.9
	19+	2234	114.0	0.47	81.3	171.6	96.1	98.7	104.4	111.9	121.0	131.7	139.5
Average Sagittal Abdominal Diameter (cm)*	19-30	171	25.2	0.33	18.7	34.8	20.9	21.4	22.7	25.0	26.8	29.4	30.8
	31-50	403	26.1	0.26	19.5	39.7	21.1	21.7	23.4	25.8	28.5	30.8	32.7
	51-70	412	26.9	0.24	20.4	38.6	22.3	23.1	24.6	26.4	28.8	31.1	33.4
	>70	130	26.5	0.33	20.5	36.2	22.6	23.2	24.6	26.1	28.0	29.8	31.6
	19+	1116	26.3	0.18	18.7	39.7	21.4	22.4	23.8	25.9	28.4	30.6	32.8
Waist:Hip Ratio**	19-30	156	0.92	0.01	0.66	1.08	0.81	0.83	0.89	0.92	0.96	1.02	1.04
	31-50	359	0.92	0.01	0.72	1.08	0.80	0.84	0.87	0.92	0.96	1.00	1.03
	51-70	432	0.93	0.00	0.73	1.11	0.82	0.86	0.89	0.93	0.97	1.00	1.01
	>70	135	0.94	0.01	0.74	1.05	0.83	0.88	0.91	0.94	0.98	1.01	1.03
	19+	1082	0.93	0.00	0.66	1.11	0.82	0.84	0.89	0.93	0.97	1.00	1.02

Note: Pregnant and lactating women excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-28a Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with Body Mass Index 95th percentile and above, NHANES 2015-2018

Measure	Age	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
Body mass index (kg/m ²)	2-3 y	52	20.6	0.63	.	18.2	18.7	19.6	21	23.6	26.4
	4-8 y	170	21.9	0.23	18.1	18.4	19.9	21.2	23.4	25.7	26.6
	9-13 y	212	28	0.34	23	23.7	25	27	29.9	33.2	36.4
	14-18 y	178	33.6	0.47	27.9	28.3	29.6	32	35.4	41.8	44.7
Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	52	19.8	1.01	14.7	14.9	16.1	18.1	20.4	25.2	30.8
	4-8 y	170	34.4	0.76	21.3	22.3	26.7	34.7	40.9	46.8	48.6
	9-13 y	212	67	1.39	43.6	47.4	54.9	64.3	78	89.3	96.4
	14-18 y	178	102	1.64	79.5	84	88.1	96.1	114	127.8	139.6
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo	NO BMI CATEGORIES FOR <2 YEARS									
	2-3 y	52	97.2	1.13	86.2	88.7	91.7	98.2	102	105	105.5
	4-8 y	170	124.2	0.94	105.5	107.7	114.1	126.1	132.4	137.4	141.6
	9-13 y	212	153.7	0.98	136.1	139.8	145.9	152.8	162.4	169.5	171.6
	14-18 y	178	173.9	0.63	160.8	164.3	169.5	174.1	179	182.4	184.6
Waist circumference (cm)	2-3 y	45	58.3	2.16	.	51.2	52.6	55	59	69.6	75
	4-8 y	166	70.8	0.81	56.4	59.2	63.3	71	76.7	83.3	86.4
	9-13 y	206	93.5	0.98	76.3	80.6	86.1	92.7	98.2	107.8	112.7
	14-18 y	176	109.1	1.03	90.5	94.1	99.8	106.7	115.6	128.5	133.1
Average Sagittal Abdominal Diameter (cm)*	9-13 y	105	20.8	0.3	16.7	17.5	18.9	20.4	21.9967	24.2	26.1
	14-18 y	89	24.6	0.42	20.2	20.6	21.9	23.8	26.4944	29.5	30.6
Waist:Hip Ratio**	12-13 y	38	0.95	0.01	0.86	0.86	0.91	0.97	1.00	1.01	1.02
	14-18 y	88	0.96	0.01	0.84	0.89	0.92	0.97	0.99	1.03	1.05

. Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

Height (cm)	17	41	106.2	3.14	83.7	84.6	91.4	97.3	122.5	133.4	149.1	
	18	31	106.0	3.10	79.3	80.0	89.4	104.6	120.8	123.6	141.8	
	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS										
	7-12 mo											
	1											
	2	26	*	*	*	*	*	*	*	*	*	*
	3	26	*	*	*	*	*	*	*	*	*	*
	4	26	*	*	*	*	*	*	*	*	*	*
	5	29	*	*	*	*	*	*	*	*	*	*
	6	26	*	*	*	*	*	*	*	*	*	*
	7	37	129.7	1.09	119.8	122.1	125.4	127.7	134.7	137.3	137.4	
	8	52	135.1	0.93	126.4	127.8	131.0	132.8	138.3	144.2	145.1	
	9	43	142.4	1.29	124.6	135.0	137.9	140.9	145.6	153.0	155.3	
	10	42	145.6	1.31	130.7	133.2	139.8	146.5	151.6	154.2	159.1	
	11	51	153.2	0.86	141.9	144.8	148.3	152.6	157.2	162.8	164.8	
	12	33	158.2	1.17	147.6	149.2	152.9	156.1	164.3	167.9	169.6	
	13	43	164.5	1.38	147.5	151.6	159.7	166.0	170.2	171.5	172.3	
	14	36	174.9	1.05	160.8	164.5	171.8	175.7	179.4	180.9	182.4	
15	45	173.9	1.29	159.8	161.9	168.5	173.8	180.0	183.3	184.3		
16	25	*	*	*	*	*	*	*	*	*		
17	41	174.2	1.05	161.0	165.6	169.8	174.1	178.1	182.0	184.1		
18	31	172.7	0.89	162.0	164.0	168.2	172.8	176.6	179.9	180.0		
Waist circumference (cm)	2	23	*	*	*	*	*	*	*	*	*	
	3	22	*	*	*	*	*	*	*	*	*	
	4	25	*	*	*	*	*	*	*	*	*	
	5	28	*	*	*	*	*	*	*	*	*	
	6	26	*	*	*	*	*	*	*	*	*	
	7	37	72.8	1.22	64.8	66.6	68.5	71.5	75.2	81.7		
	8	50	78.3	1.16	67.4	70.0	73.2	77.4	82.7	86.3	88.2	
	9	40	84.5	1.41	70.3	72.4	78.2	85.0	88.4	92.7	95.1	
	10	41	89.0	1.95	73.0	74.8	82.5	88.8	92.2	101.9	107.5	
	11	49	92.2	1.12	82.3	83.0	86.4	91.5	95.4	98.9	105.0	
	12	33	95.2	1.44	81.9	83.3	90.1	94.3	97.9	103.2	105.7	
	13	43	102.1	1.41	89.9	91.9	94.9	100.0	107.5	113.9	119.0	
	14	36	105.2	1.08	97.3	98.1	101.1	104.5	107.5	111.9	114.4	

15	44	109.7	1.58	89.8	93.4	99.0	108.1	115.6	126.2	133.5
16	24	*	*	*	*	*	*	*	*	*
17	41	110.1	2.02	92.0	94.1	99.8	106.6	119.7	131.3	132.7
18	31	112.2	2.59		92.7	101.8	110.7	122.0	132.2	134.4

Average Sagittal
Abdominal
Diameter (cm)*

9	20	*	*	*	*	*	*	*	*	*
10	21	*	*	*	*	*	*	*	*	*
11	27	*	*	*	*	*	*	*	*	*
12	14	*	*	*	*	*	*	*	*	*
13	23	*	*	*	*	*	*	*	*	*
14	20	*	*	*	*	*	*	*	*	*
15	22	*	*	*	*	*	*	*	*	*
16	12	*	*	*	*	*	*	*	*	*
17	19	*	*	*	*	*	*	*	*	*
18	16	*	*	*	*	*	*	*	*	*

Waist:Hip
Ratio**

12	18	*	*	*	*	*	*	*	*	*
13	20	*	*	*	*	*	*	*	*	*
14	16	*	*	*	*	*	*	*	*	*
15	22	*	*	*	*	*	*	*	*	*
16	13	*	*	*	*	*	*	*	*	*
17	22	*	*	*	*	*	*	*	*	*
18	15*	*	*	*	*	*	*	*	*	*

* Sample size <30

. Percentile not calculated using SUDAAN due to small

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-29a Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with Body Mass Index 95th percentile and above, NHANES 2015-2018

Measure	Age	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
BMI	2-3 y	30	19.1	0.17	18.3	18.3	18.5	18.7	19.3	20.5	20.6
	4-8 y	176	22.0	0.24	18.5	18.6	19.6	21.3	23.4	25.7	27.3
	9-13 y	194	28.5	0.25	23.6	24.3	26.0	28.1	30.3	33.5	35.7
	14-18 y	173	34.7	0.45	28.5	29.7	30.8	32.8	37.7	42.8	44.6
Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo										
	2-3 y	30	17.5	0.53	14.1	14.5	15.5	17.3	18.6	19.6	21.0
	4-8 y	176	33.5	0.86	20.2	21.2	25.6	32.1	40.3	45.5	49.7
	9-13 y	194	67.2	1.04	45.8	49.6	57.7	66.5	74.5	85.6	92.4
	14-18 y	173	91.2	1.36	68.3	73.0	78.8	88.0	98.9	112.0	117.9
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS									
	7-23 mo										
	2-3 y	30	95.7	1.17	85.9	88.3	91.2	95.7	98.0	101.0	103.1
	4-8 y	176	121.9	0.98	102.6	106.9	114.1	122.1	130.2	135.1	138.6
	9-13 y	194	152.8	0.71	137.5	141.0	146.0	152.7	159.1	163.0	166.2
	14-18 y	173	161.8	0.58	151.3	153.0	157.2	161.6	166.4	170.9	172.7
Waist circumference (cm)	2-3 y	28	54.1	0.79	.	49.8	51.1	53.3	56.1	58.7	59.4
	4-8 y	169	71.0	0.83	58.1	58.8	63.3	69.9	77.1	83.7	87.6
	9-13 y	185	91.3	0.55	77.2	80.3	84.2	91.1	97.1	102.1	108.9
	14-18 y	165	103.2	1.1	88.2	89.7	95.4	100.3	109.7	119.0	125.3
Average Sagittal Abdominal Diameter (cm)*	9-13 y	93	20.9	0.22	17.5	18.4	19.3	20.6	22.0	23.8	25.1
	14-18 y	76	23.6	0.35	19.0	19.5	21.4	23.0	25.1	27.2	28.6
Waist:Hip Ratio**	12-13 y	31	0.90	0.01	0.81	0.83	0.84	0.91	0.93	0.97	0.97
	14-18 y	89	0.89	0.01	0.80	0.81	0.84	0.88	0.94	0.97	0.99

. Percentile not calculated using SUDAAN due to small sample size

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-29b Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with Body Mass Index 95th percentile and above, by Single Years of Age, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles								
					5 th	10 th	25 th	50 th	75 th	90 th	95 th		
Body mass index (kg/m ²)	4	22	*	*	*	*	*	*	*	*	*		
	5	37	20.1	0.31	18.4	18.5	18.7	19.5	20.9	22.5	23.7		
	6	34	22.6	0.49	19.3	19.5	19.9	21.8	24.1	26.7	27.8		
	7	40	23.0	0.54	20.2	20.6	21.0	22.0	24.5	25.8	27.8		
	8	43	24.5	0.45	21.4	21.6	22.4	23.4	25.7	27.7	30.9		
	9	29	*	*	*	*	*	*	*	*	*		
	10	42	26.7	0.60	23.5	23.8	24.2	25.5	28.4	30.2	33.6		
	11	48	28.8	0.41	24.7	25.0	26.4	28.2	30.7	31.2	33.5		
	12	44	29.0	0.41	26.1	26.8	26.8	28.0	29.7	32.3	34.8		
	13	31	31.1	0.69	26.8	27.1	28.3	29.7	33.2	37.0	38.3		
	14	37	31.7	0.71	27.7	27.9	28.7	30.1	31.6	38.1	41.3		
	15	34	33.8	0.54	28.5	29.5	30.3	33.2	35.0	37.5	42.3		
	16	37	35.6	1.24	29.7	30.2	31.1	32.8	39.3	44.9	46.4		
	17	30	35.1	1.06	30.5	30.7	31.3	32.7	37.1	41.5	43.1		
	18	35	37.4	1.08		30.9	32.4	36.8	39.3	43.2	44.0		
	Weight (kg)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS										
		7-12 mo	NO BMI CATEGORIES FOR <2 YEARS										
		1	NO BMI CATEGORIES FOR <2 YEARS										
		2	16	*	*	*	*	*	*	*	*	*	*
3		14	*	*	*	*	*	*	*	*	*		
4		22	*	*	*	*	*	*	*	*	*		
5		37	26.9	0.56	21.3	23.4	25.1	26.3	28.0	30.3	32.2		
6		34	34.3	1.09	24.7	24.9	30.3	33.4	38.6	42.6	43.4		
7		40	38.2	1.45	27.9	29.6	33.3	36.7	41.8	47.2	50.7		
8		43	44.3	1.34	35.7	36.1	39.0	42.6	47.4	52.5	56.3		
9		29	*	*	*	*	*	*	*	*	*		
10		42	57.2	1.42	45.2	47.4	50.5	55.5	58.5	67.0	76.6		
11		49	69.1	1.36	56.2	57.1	62.2	66.5	72.4	82.2	86.2		
12		44	70.2	1.36	56.2	58.8	63.5	70.2	74.1	80.7	83.8		
13		31	81.9	2.13	67.4	69.7	71.7	78.3	88.7	98.4	99.8		
14		38	81.7	2.51	65.4	66.6	69.9	78.0	84.9	106.4	108.9		
15		35	87.1	1.78	67.2	67.9	78.2	84.4	94.9	102.2	108.2		
16		38	93.9	3.38	72.5	75.4	78.5	88.4	104.5	112.2	122.9		
17		30	93.1	2.65	75.9	76.9	85.0	90.6	96.7	104.7	119.9		
18	35	99.7	3.12	79.3	80.2	84.7	95.1	111.0	114.7	118.2			
Height (cm)	0-6 mo	NO BMI CATEGORIES FOR <2 YEARS											

7-12 mo

	1										
	2	16	*	*	*	*	*	*	*	*	*
	3	14	*	*	*	*	*	*	*	*	*
	4	22	*	*	*	*	*	*	*	*	*
	5	37	115.4	0.64	107.7	108.7	113.9	116.0	116.9	118.4	122.3
	6	34	122.9	0.87	112.6	113.0	121.0	123.1	124.8	129.3	129.8
	7	40	128.3	1.19	116.2	119.0	124.0	127.6	133.2	136.2	140.1
	8	43	134.0	0.96	125.5	128.5	129.9	132.9	137.5	140.3	144.9
	9	29	*	*	*	*	*	*	*	*	*
	10	42	146.2	0.57	138.5	138.7	142.1	144.9	149.1	152.7	154.2
	11	48	154.7	0.81	144.3	146.8	150.9	153.5	158.4	162.8	164.9
	12	44	155.5	1.35	141.6	142.3	150.2	156.5	160.1	162.0	163.5
	13	31	162.1	0.94	155.8	156.6	157.8	161.2	164.5	167.7	172.1
	14	37	160.3	0.84	149.1	151.7	156.1	160.6	165.5	167.1	168.3
	15	34	160.3	1.19	144.7	151.3	155.7	158.5	164.0	171.5	173.4
	16	37	162.2	1.18	152.1	153.6	157.4	160.9	166.0	169.8	173.3
	17	30	162.8	1.24	151.7	154.1	157.8	162.2	166.6	172.5	173.0
	18	35	163.2	1.31	148.9	153.8	159.6	163.6	167.4	168.7	
Waist circumference (cm)											
	2	14	*	*	*	*	*	*	*	*	*
	3	14	*	*	*	*	*	*	*	*	*
	4	20	*	*	*	*	*	*	*	*	*
	5	36	64.6	0.91		58.3	60.4	63.6	67.1	71.8	73.4
	6	32	73.2	1.56	61.0	62.2	67.0	71.9	77.4	85.4	86.8
	7	40	75.4	1.77	64.2	65.3	67.3	73.5	79.9	87.3	91.7
	8	41	79.3	1.11	66.7	71.1	75.6	77.4	82.9	86.8	92.4
	9	28	*	*	*	*	*	*	*	*	*
	10	41	87.3	1.20	77.8	78.4	80.8	84.9	91.3	93.9	105.0
	11	44	91.6	1.65	76.8	80.2	83.8	91.1	98.7	100.4	108.7
	12	41	92.7	0.79	82.2	83.8	85.4	91.9	96.9	101.3	108.3
	13	31	97.7	1.73	83.4	87.9	91.6	96.6	101.3	106.3	
	14	36	98.6	1.63	86.6	88.9	91.6	96.8	100.3	114.1	117.8
	15	33	100.6	1.20	84.9	87.3	94.1	99.6	104.0	111.6	121.0
	16	35	104.5	2.89	88.4	90.4	94.2	98.3	109.8	129.1	132.0
	17	28	*	*	*	*	*	*	*	*	*
	18	33	107.7	1.86	90.2	92.6	100.4	106.2	115.0	121.6	124.2

Average Sagittal
Abdominal
Diameter (cm)*

9	12	*	*	*	*	*	*	*	*	*
10	20	*	*	*	*	*	*	*	*	*
11	20	*	*	*	*	*	*	*	*	*
12	26	*	*	*	*	*	*	*	*	*
13	15	*	*	*	*	*	*	*	*	*
14	15	*	*	*	*	*	*	*	*	*
15	16	*	*	*	*	*	*	*	*	*
16	18	*	*	*	*	*	*	*	*	*
17	11	*	*	*	*	*	*	*	*	*
18	17	*	*	*	*	*	*	*	*	*

Waist:Hip Ratio**

12	15	*	*	*	*	*	*	*	*	*
13	16	*	*	*	*	*	*	*	*	*
14	21	*	*	*	*	*	*	*	*	*
15	18	*	*	*	*	*	*	*	*	*
16	17	*	*	*	*	*	*	*	*	*
17	17	*	*	*	*	*	*	*	*	*
18	16	*	*	*	*	*	*	*	*	*

* Sample size <30

. Percentile not calculated using SUDAAN due to small

Note: Pregnant and lactating adolescents excluded

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018; *2015-2016; **2017-2018

TABLE Y-30 Body Measurement Summary Statistics, Men 19 years of Age and Older with Body Mass Index ≥ 18.5 and $< 25 \text{ kg/m}^2$, Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Body mass index (kg/m ²)	19-30	474	22.4(0.1)	19.6(0.1)	19.9(0.2)	21.0(0.3)	22.6(0.2)	23.6(0.2)	24.4(0.1)	24.8(0.1)
	31-50	816	22.8(0.2)	19.7(0.3)	20.3(0.2)	21.5(0.3)	23.2(0.2)	24.1(0.1)	24.7(0.1)	24.9(0.1)
	51-70	443	23.3(0.1)	20.3(0.3)	21.0(0.2)	22.3(0.3)	23.6(0.1)	24.4(0.1)	24.7(0.0)	24.9(0.0)
	>70	123	23.1(0.2)	19.4(0.3)	20.1(0.4)	22.3(0.4)	23.5(0.2)	24.2(0.1)	24.7(0.1)	24.9(0.1)
	19+	1856	22.8(0.1)	19.7(0.1)	20.3(0.1)	21.6(0.2)	23.2(0.1)	24.1(0.1)	24.7(0.0)	24.8(0.0)
Weight (kg)	19-30	474	70.7(0.6)	58.1(1.0)	60.7(0.9)	66.0(0.8)	70.8(0.9)	76.4(0.8)	80.6(0.7)	82.2(0.9)
	31-50	816	71.3(0.7)	57.5(2.0)	61.2(1.0)	65.5(0.9)	72.0(0.8)	76.7(0.6)	81.1(0.8)	83.7(0.9)
	51-70	443	71.2(0.8)	57.9(1.3)	61.7(0.8)	66.8(0.7)	70.2(1.0)	76.6(1.1)	80.9(1.3)	83.4(1.7)
	>70	123	68.7(0.8)	56.6(2.2)	60.9(1.8)	64.4(0.9)	69.0(1.1)	73.7(1.0)	76.7(0.7)	78.0(2.1)
	19+	1856	71.0(0.4)	58.0(0.8)	61.2(0.5)	65.8(0.5)	71.0(0.6)	76.5(0.5)	80.7(0.4)	82.9(0.6)
Height (cm)	19-30	474	177.7(0.5)	166.2(1.2)	168.9(1.0)	173.3(0.7)	177.6(0.6)	182.4(0.6)	186.2(0.7)	187.9(1.5)
	31-50	816	176.7(0.5)	163.9(1.0)	166.8(0.9)	172.5(0.7)	176.7(0.8)	181.3(0.6)	185.3(0.7)	187.6(0.7)
	51-70	443	174.8(0.9)	162.8(1.2)	165.0(0.7)	169.0(1.0)	174.4(1.2)	180.8(0.8)	185.4(1.3)	187.6(2.1)
	>70	123	172.4(0.8)	160.8(2.3)	164.7(1.1)	167.4(1.0)	172.7(1.3)	177.9(0.8)	179.0(0.8)	181.1(2.2)
	19+	1856	176.3(0.4)	163.8(0.5)	166.6(0.5)	171.3(0.5)	176.4(0.6)	181.5(0.4)	185.6(0.6)	187.6(0.7)
Waist circumference (cm)	19-30	474	80.4(0.4)	72.9(0.8)	74.0(0.5)	76.9(0.5)	80.3(0.5)	83.4(0.4)	86.5(0.6)	89.6(1.1)
	31-50	816	84.3(0.7)	72.6(0.9)	74.6(1.0)	79.3(1.0)	84.5(0.8)	89.5(0.9)	93.6(0.9)	96.1(0.9)
	51-70	441	87.6(0.4)	77.5(0.7)	79.8(0.8)	83.6(0.7)	87.4(0.5)	91.4(0.5)	95.2(0.8)	97.5(0.8)
	>70	122	89.4(0.7)	77.4(2.6)	80.8(2.1)	86.1(1.1)	89.9(0.8)	93.8(0.6)	95.7(0.8)	97.0(0.9)
	19+	1853	84.2(0.4)	73.5(0.4)	75.0(0.5)	79.4(0.4)	83.7(0.5)	89.1(0.5)	93.4(0.5)	95.6(0.5)
Waist:Hip Ratio	19-30	249	0.85(0.00)	0.79(0.01)	0.80(0.01)	0.82(0.00)	0.84(0.00)	0.87(0.01)	0.91(0.01)	0.92(0.01)
	31-50	384	0.89(0.01)	0.81(0.01)	0.82(0.01)	0.85(0.01)	0.88(0.01)	0.92(0.01)	0.97(0.01)	0.99(0.01)
	51-70	220	0.92(0.01)	0.84(0.01)	0.86(0.01)	0.88(0.01)	0.92(0.01)	0.95(0.01)	0.98(0.01)	1.00(0.01)
	>70	54	0.93(0.01)		0.86(0.01)	0.90(0.01)	0.94(0.01)	0.97(0.00)	0.99(0.01)	
	19+	907	0.88(0.00)	0.80(0.00)	0.81(0.00)	0.84(0.00)	0.88(0.00)	0.92(0.00)	0.96(0.00)	0.98(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.

- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-31 Body Measurement Summary Statistics, Women 19 years of Age and Older with Body Mass Index ≥ 18.5 and $< 25 \text{ kg/m}^2$

Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Body mass index (kg/m ²)	19-30	462	22.0(0.2)	19.2(0.1)	19.7(0.2)	20.5(0.3)	22.0(0.2)	23.3(0.2)	24.0(0.2)	24.4(0.2)
	31-50	1226	22.1(0.1)	19.1(0.2)	19.6(0.2)	20.8(0.2)	22.2(0.2)	23.6(0.2)	24.4(0.1)	24.7(0.1)
	51-70	672	22.4(0.1)	19.5(0.1)	19.8(0.1)	21.1(0.2)	22.4(0.1)	23.8(0.1)	24.5(0.1)	24.8(0.1)
	>70	189	22.6(0.2)	19.9(0.2)	20.1(0.3)	21.2(0.4)	23.0(0.3)	24.0(0.1)	24.5(0.1)	24.7(0.1)
	19+	2549	22.2(0.1)	19.2(0.1)	19.7(0.1)	20.8(0.1)	22.3(0.1)	23.6(0.1)	24.4(0.1)	24.7(0.1)
Weight (kg)	19-30	462	59.6(0.7)	48.2(1.3)	50.7(1.1)	54.7(0.9)	59.2(0.7)	63.7(1.0)	68.3(1.3)	71.0(1.4)
	31-50	1226	59.6(0.5)	48.9(0.9)	51.0(0.8)	55.2(0.4)	58.6(0.6)	63.7(0.7)	68.8(0.7)	71.1(0.7)
	51-70	672	58.2(0.4)	47.3(0.6)	49.8(0.6)	54.0(0.5)	58.2(0.3)	61.8(0.5)	66.4(0.6)	68.7(0.8)
	>70	189	56.7(0.6)	48.0(0.6)	48.5(0.8)	52.2(1.2)	57.2(0.6)	60.7(0.4)	63.8(0.5)	65.7(1.1)
	19+	2549	59.0(0.3)	48.2(0.5)	50.4(0.6)	54.6(0.3)	58.5(0.3)	63.3(0.4)	68.1(0.6)	70.5(0.7)
Height (cm)	19-30	462	164.6(0.8)	153.6(2.1)	155.8(1.2)	158.7(0.8)	163.9(1.0)	170.4(1.0)	173.4(1.4)	176.6(1.9)
	31-50	1226	164.0(0.5)	153.3(0.8)	154.9(0.6)	158.8(0.7)	163.4(0.7)	168.5(0.6)	173.1(0.8)	175.6(1.2)
	51-70	672	161.2(0.5)	149.3(1.2)	152.8(0.9)	156.5(0.6)	161.0(0.6)	165.5(0.8)	169.7(0.5)	171.9(0.7)
	>70	189	158.2(0.4)	147.8(0.9)	151.0(0.6)	154.6(0.5)	157.6(0.6)	161.7(0.6)	166.8(0.6)	169.1(0.9)
	19+	2549	163.0(0.4)	152.0(0.6)	154.4(0.4)	157.9(0.4)	162.3(0.4)	168.2(0.5)	172.3(0.4)	175.1(0.9)
Waist circumference (cm)	19-30	461	76.0(0.5)	67.4(1.1)	69.4(0.9)	72.6(0.5)	75.8(0.5)	78.6(0.8)	83.8(1.5)	87.0(1.2)
	31-50	1224	78.6(0.4)	69.1(0.5)	71.4(0.5)	74.0(0.6)	78.3(0.5)	82.5(0.6)	86.1(0.4)	88.1(0.4)
	51-70	671	80.6(0.4)	70.6(0.7)	72.9(0.7)	76.4(0.4)	80.2(0.5)	84.4(0.6)	89.5(0.7)	91.8(0.6)
	>70	188	83.0(0.9)	72.4(0.5)	74.0(0.7)	76.9(1.0)	82.7(1.2)	88.3(1.1)	92.3(1.0)	93.7(1.0)
	19+	2544	78.8(0.3)	69.0(0.4)	71.0(0.4)	74.1(0.3)	78.0(0.3)	82.9(0.4)	87.2(0.4)	89.9(0.4)
Waist:Hip Ratio	19-30	251	0.81(0.01)	0.72(0.02)	0.74(0.01)	0.78(0.01)	0.80(0.01)	0.84(0.01)	0.87(0.01)	0.89(0.01)
	31-50	583	0.83(0.00)	0.75(0.01)	0.77(0.01)	0.80(0.00)	0.82(0.01)	0.88(0.01)	0.90(0.01)	0.92(0.01)
	51-70	326	0.85(0.01)	0.76(0.01)	0.78(0.01)	0.81(0.00)	0.85(0.01)	0.88(0.01)	0.93(0.01)	0.96(0.01)
	>70	92	0.88(0.01)		0.81(0.01)	0.83(0.01)	0.87(0.01)	0.91(0.02)	0.96(0.02)	
	19+	1252	0.83(0.00)	0.74(0.01)	0.76(0.01)	0.79(0.00)	0.82(0.00)	0.87(0.01)	0.91(0.01)	0.93(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.

- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-32 Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with “normal” BMI Z-score (normal weight), Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	3 y	243	15.7(0.1)	14.3(0.2)	14.7(0.2)	15.0(0.1)	15.7(0.1)	16.4(0.1)	16.8(0.1)	16.9(0.0)
	4-8 y	1259	15.5(0.0)	14.2(0.0)	14.4(0.0)	14.8(0.0)	15.4(0.1)	16.1(0.1)	16.7(0.1)	17.1(0.1)
	9-13 y	1134	17.5(0.1)	14.9(0.1)	15.3(0.1)	16.2(0.1)	17.5(0.1)	18.7(0.1)	19.8(0.1)	20.5(0.1)
	14-18 y	836	20.8(0.1)	17.9(0.1)	18.2(0.1)	19.2(0.1)	20.9(0.1)	22.2(0.2)	23.5(0.2)	24.4(0.2)
Weight (kg)	3 y	243	15.8(0.1)	13.1(0.2)	13.9(0.2)	14.7(0.1)	15.5(0.2)	16.8(0.2)	17.9(0.3)	18.9(0.4)
	4-8 y	1259	22.4(0.2)	16.0(0.2)	17.0(0.2)	19.0(0.2)	21.9(0.3)	25.4(0.4)	28.5(0.4)	29.9(0.4)
	9-13 y	1134	39.7(0.4)	27.5(0.4)	29.0(0.4)	32.0(0.4)	38.0(0.6)	45.9(0.7)	53.6(1.0)	57.0(0.6)
	14-18 y	836	64.0(0.5)	48.7(1.6)	52.4(1.2)	58.1(0.6)	64.1(0.7)	70.6(0.6)	74.8(0.7)	79.5(0.9)
Height (cm)	3 y	243	100.1(0.4)	93.1(0.8)	93.9(0.8)	97.3(0.6)	100.2(0.4)	102.8(0.7)	106.8(0.8)	107.4(0.8)
	4-8 y	1259	119.6(0.4)	102.8(0.6)	105.4(0.6)	111.5(0.5)	120.5(0.7)	127.1(0.7)	133.0(0.7)	136.3(0.8)
	9-13 y	1134	149.4(0.6)	132.7(0.7)	135.3(0.7)	140.0(0.6)	147.7(0.7)	159.0(0.9)	167.7(1.1)	171.7(0.8)
	14-18 y	836	175.1(0.5)	160.5(1.9)	165.0(1.3)	170.1(0.5)	174.9(0.6)	181.0(0.6)	185.8(0.8)	189.1(0.7)
Waist circumference (cm)	3 y	239	49.1(0.2)	45.4(0.4)	46.1(0.4)	47.0(0.3)	49.0(0.4)	50.8(0.3)	52.1(0.3)	52.9(0.7)
	4-8 y	1253	53.3(0.2)	47.7(0.2)	48.7(0.2)	50.7(0.2)	52.9(0.2)	55.6(0.3)	58.1(0.5)	60.1(0.5)
	9-13 y	1134	63.8(0.3)	55.0(0.2)	56.5(0.3)	58.9(0.4)	63.2(0.5)	68.1(0.3)	71.0(0.4)	73.7(0.6)
	14-18 y	836	74.9(0.3)	65.5(0.5)	67.8(0.6)	70.9(0.4)	74.7(0.4)	78.4(0.4)	81.9(0.5)	84.7(0.8)
Waist:Hip Ratio	3 y	103	0.91(0.01)	0.84(0.01)	0.85(0.01)	0.88(0.01)	0.91(0.01)	0.94(0.01)	0.97(0.01)	0.98(0.01)
	4-8 y	603	0.86(0.00)	0.79(0.01)	0.80(0.00)	0.82(0.01)	0.86(0.00)	0.90(0.01)	0.92(0.00)	0.94(0.00)
	9-13 y	580	0.83(0.00)	0.76(0.01)	0.77(0.00)	0.79(0.00)	0.83(0.01)	0.86(0.00)	0.89(0.00)	0.90(0.01)
	14-18 y	416	0.82(0.00)	0.75(0.01)	0.76(0.01)	0.79(0.00)	0.81(0.01)	0.85(0.01)	0.88(0.01)	0.89(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.

- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-33 Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with “normal” BMI Z-score (normal weight),

Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	3 y	260	15.5(0.1)	14.2(0.1)	14.5(0.1)	14.9(0.1)	15.5(0.1)	16.1(0.1)	16.5(0.1)	16.6(0.1)
	4-8 y	1261	15.5(0.0)	13.9(0.1)	14.2(0.1)	14.7(0.1)	15.4(0.1)	16.1(0.1)	16.8(0.1)	17.3(0.2)
	9-13 y	1198	17.7(0.1)	14.8(0.1)	15.4(0.1)	16.0(0.1)	17.4(0.1)	19.0(0.2)	20.5(0.2)	21.2(0.2)
	14-18 y	894	20.8(0.1)	17.6(0.2)	18.2(0.2)	19.4(0.1)	20.7(0.2)	22.3(0.1)	23.6(0.1)	24.2(0.2)
Weight (kg)	3 y	260	15.2(0.1)	12.5(0.3)	13.1(0.2)	14.3(0.2)	15.3(0.1)	16.1(0.2)	16.9(0.2)	17.7(0.2)
	4-8 y	1261	21.8(0.2)	15.3(0.1)	16.2(0.2)	18.3(0.2)	21.2(0.3)	24.9(0.3)	28.3(0.4)	30.1(0.4)
	9-13 y	1198	39.5(0.4)	26.4(0.4)	27.9(0.4)	32.3(0.6)	38.6(0.5)	45.6(0.7)	52.5(0.7)	55.1(0.8)
	14-18 y	894	56.1(0.3)	45.2(0.5)	47.0(0.5)	50.9(0.5)	55.9(0.4)	60.9(0.5)	66.0(0.6)	67.9(0.4)
Height (cm)	3 y	260	99.1(0.4)	90.8(0.4)	91.9(0.7)	96.0(0.6)	99.4(0.5)	102.0(0.6)	105.4(0.8)	107.2(0.6)
	4-8 y	1261	118.1(0.5)	101.9(0.4)	104.5(0.4)	109.9(0.5)	117.8(0.8)	125.7(0.7)	132.5(0.8)	135.5(0.8)
	9-13 y	1198	148.5(0.5)	129.7(0.8)	132.8(0.7)	139.6(0.9)	148.6(0.7)	157.0(0.6)	163.6(0.6)	166.2(0.8)
	14-18 y	894	163.9(0.4)	153.1(0.8)	155.7(0.7)	159.6(0.5)	164.2(0.4)	167.6(0.4)	171.7(0.5)	174.4(0.7)
Waist circumference (cm)	3 y	257	49.1(0.3)	44.4(0.4)	44.7(0.4)	47.0(0.5)	48.9(0.3)	50.5(0.4)	53.6(0.6)	54.5(0.6)
	4-8 y	1259	53.2(0.2)	46.6(0.3)	47.9(0.4)	49.9(0.2)	52.9(0.2)	55.6(0.3)	58.5(0.4)	61.2(0.7)
	9-13 y	1198	63.6(0.4)	53.9(0.4)	55.6(0.4)	58.2(0.4)	62.9(0.5)	68.3(0.5)	72.7(0.6)	74.9(0.5)
	14-18 y	894	72.7(0.3)	63.9(0.3)	65.2(0.4)	68.0(0.4)	72.4(0.4)	76.1(0.5)	80.9(0.6)	83.5(0.6)
Waist:Hip Ratio	3 y	112	0.91(0.01)	0.83(0.01)	0.84(0.01)	0.87(0.01)	0.90(0.01)	0.93(0.01)	0.97(0.01)	0.99(0.02)
	4-8 y	594	0.87(0.00)	0.78(0.01)	0.80(0.00)	0.83(0.00)	0.87(0.00)	0.91(0.00)	0.93(0.01)	0.96(0.01)
	9-13 y	598	0.82(0.00)	0.74(0.01)	0.75(0.00)	0.78(0.00)	0.82(0.00)	0.85(0.01)	0.89(0.01)	0.90(0.01)
	14-18 y	456	0.79(0.00)	0.71(0.01)	0.73(0.01)	0.75(0.00)	0.79(0.00)	0.83(0.00)	0.86(0.00)	0.88(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.

- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-34 Body Measurement Summary Statistics, Men 19 years of Age and Older with Body Mass Index ≥ 25 and < 29.9 kg/m²
Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Body mass index (kg/m ²)	19-30	284	27.2(0.2)	25.1(0.0)	25.2(0.1)	25.9(0.2)	26.9(0.2)	28.4(0.4)	29.5(0.2)	29.9(0.1)
	31-50	1238	27.1(0.1)	25.2(0.0)	25.3(0.1)	26.0(0.1)	26.9(0.1)	28.2(0.1)	29.2(0.1)	29.6(0.1)
	51-70	975	27.5(0.1)	25.3(0.1)	25.6(0.1)	26.2(0.1)	27.5(0.1)	28.5(0.1)	29.5(0.1)	29.7(0.1)
	>70	263	27.5(0.1)	25.4(0.1)	25.6(0.1)	26.0(0.2)	27.5(0.2)	28.7(0.2)	29.5(0.1)	29.8(0.1)
	19+	2760	27.3(0.1)	25.2(0.0)	25.4(0.1)	26.0(0.1)	27.2(0.1)	28.4(0.1)	29.4(0.1)	29.7(0.1)
Weight (kg)	19-30	284	87.3(1.1)	73.5(1.2)	75.8(1.4)	82.4(1.5)	87.2(1.0)	93.1(1.3)	97.7(1.3)	99.7(1.5)
	31-50	1238	84.6(0.4)	73.0(0.5)	74.9(0.7)	79.2(0.4)	84.1(0.5)	89.7(0.6)	96.3(0.6)	98.4(0.6)
	51-70	975	84.0(0.5)	71.4(0.8)	74.0(0.6)	77.9(0.6)	83.2(0.6)	89.7(0.6)	94.8(0.8)	98.0(0.8)
	>70	263	81.0(0.8)	68.9(2.0)	72.4(1.4)	74.6(1.0)	80.9(0.8)	85.5(1.0)	91.0(1.6)	94.2(1.6)
	19+	2760	84.5(0.3)	72.3(0.5)	73.9(0.4)	78.8(0.4)	84.2(0.4)	89.8(0.4)	95.8(0.5)	98.3(0.6)
Height (cm)	19-30	284	179.0(1.0)	168.3(1.1)	169.7(0.9)	174.1(1.2)	179.0(0.9)	183.4(1.3)	188.2(1.5)	189.8(1.5)
	31-50	1238	176.6(0.4)	165.6(0.5)	167.7(0.6)	172.7(0.4)	176.0(0.4)	180.5(0.6)	185.8(0.8)	189.6(0.9)
	51-70	975	174.8(0.4)	162.7(0.5)	164.8(0.5)	170.1(0.5)	174.6(0.5)	179.3(0.5)	183.9(0.6)	186.4(1.1)
	>70	263	171.5(0.7)	159.4(1.4)	163.1(1.2)	168.1(0.8)	170.7(0.8)	176.1(0.9)	179.7(1.0)	183.2(0.8)
	19+	2760	175.9(0.3)	163.5(0.5)	166.6(0.4)	171.2(0.4)	175.7(0.4)	180.4(0.4)	185.0(0.7)	188.7(0.8)
Waist circumference (cm)	19-30	284	93.5(1.0)	82.8(1.1)	84.0(1.1)	88.9(1.1)	93.5(1.1)	98.9(1.1)	101.5(1.1)	103.4(1.1)
	31-50	1236	95.3(0.3)	84.9(0.7)	88.0(0.6)	91.6(0.4)	95.2(0.3)	99.2(0.5)	102.7(0.5)	104.4(0.4)
	51-70	970	99.4(0.3)	89.5(0.6)	91.7(0.5)	95.0(0.3)	99.0(0.4)	103.4(0.4)	107.6(0.4)	109.9(0.5)
	>70	258	100.6(0.6)	90.2(1.4)	92.1(1.0)	96.9(0.8)	100.0(0.7)	104.7(1.0)	110.0(1.0)	111.9(0.6)
	19+	2748	97.0(0.2)	85.8(0.5)	88.9(0.3)	92.9(0.3)	96.8(0.3)	101.2(0.4)	105.6(0.4)	108.1(0.4)
Waist:Hip Ratio	19-30	152	0.90(0.01)	0.82(0.01)	0.84(0.01)	0.86(0.01)	0.89(0.01)	0.93(0.01)	0.96(0.02)	1.00(0.02)
	31-50	599	0.94(0.00)	0.84(0.01)	0.87(0.01)	0.91(0.00)	0.94(0.00)	0.97(0.00)	1.00(0.01)	1.01(0.01)
	51-70	505	0.98(0.00)	0.89(0.01)	0.92(0.01)	0.94(0.01)	0.98(0.00)	1.01(0.01)	1.05(0.00)	1.06(0.00)
	>70	125	0.99(0.00)	0.92(0.01)	0.93(0.01)	0.96(0.01)	1.00(0.01)	1.02(0.00)	1.04(0.01)	1.06(0.01)
	19+	1381	0.95(0.00)	0.85(0.01)	0.87(0.00)	0.91(0.00)	0.95(0.00)	0.99(0.00)	1.02(0.00)	1.04(0.00)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.

- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-35 Body Measurement Summary Statistics, Women 19 years of Age and Older with Body Mass Index ≥ 25 and < 29.9 kg/m²

Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Body mass index (kg/m ²)	19-30	206	27.1(0.2)	25.1(0.1)	25.3(0.1)	25.8(0.2)	27.1(0.2)	28.3(0.3)	29.3(0.2)	29.4(0.2)
	31-50	769	27.2(0.1)	25.1(0.0)	25.3(0.1)	26.1(0.1)	27.0(0.1)	28.3(0.2)	29.3(0.2)	29.7(0.1)
	51-70	666	27.4(0.1)	25.2(0.0)	25.3(0.1)	26.1(0.1)	27.4(0.2)	28.6(0.1)	29.3(0.2)	29.7(0.1)
	>70	272	27.3(0.1)	25.3(0.1)	25.6(0.1)	26.1(0.2)	27.1(0.1)	28.5(0.2)	29.3(0.1)	29.6(0.1)
	19+	1913	27.3(0.1)	25.2(0.0)	25.3(0.1)	26.0(0.1)	27.2(0.1)	28.4(0.1)	29.3(0.1)	29.7(0.1)
Weight (kg)	19-30	206	71.6(0.9)	58.3(3.8)	63.2(2.7)	67.6(1.1)	71.4(0.8)	75.4(0.9)	78.6(1.5)	82.5(1.3)
	31-50	769	72.7(0.6)	62.9(0.4)	63.9(0.5)	67.7(0.6)	71.8(0.9)	77.1(0.9)	82.3(0.8)	85.5(0.7)
	51-70	666	70.7(0.4)	60.8(0.5)	62.2(0.5)	66.3(0.4)	70.0(0.5)	75.7(0.6)	78.8(0.7)	81.5(1.0)
	>70	272	68.8(0.5)	58.0(1.4)	60.5(1.3)	65.1(0.8)	69.5(0.6)	72.6(0.5)	75.7(0.5)	78.0(1.5)
	19+	1913	71.3(0.4)	60.8(0.5)	63.0(0.4)	66.7(0.4)	70.7(0.4)	75.7(0.5)	80.2(0.7)	83.5(0.8)
Height (cm)	19-30	206	162.4(1.1)	147.1(3.3)	152.4(3.0)	158.7(1.2)	162.2(0.9)	166.7(1.6)	173.7(1.6)	174.8(1.2)
	31-50	769	163.4(0.6)	154.2(0.8)	155.4(0.6)	158.8(0.6)	163.0(0.6)	167.5(0.8)	172.1(0.8)	174.9(1.0)
	51-70	666	160.5(0.3)	150.2(0.6)	152.5(0.6)	156.5(0.4)	160.4(0.4)	165.0(0.4)	168.3(0.5)	170.7(0.7)
	>70	272	158.6(0.6)	147.6(1.2)	150.2(1.1)	154.4(0.9)	158.3(0.8)	162.9(0.6)	166.5(0.8)	169.2(1.0)
	19+	1913	161.7(0.3)	150.4(0.7)	153.3(0.6)	157.1(0.3)	161.5(0.4)	166.1(0.4)	170.6(0.6)	173.5(0.6)
Waist circumference (cm)	19-30	202	88.3(0.8)	75.5(1.5)	80.5(1.1)	84.6(0.8)	87.9(1.0)	92.5(1.1)	96.4(1.3)	97.4(1.5)
	31-50	768	90.6(0.4)	80.9(1.2)	82.2(0.5)	85.9(0.7)	91.0(0.5)	94.8(0.6)	98.3(0.8)	101.4(0.7)
	51-70	662	93.8(0.4)	83.4(0.5)	85.3(0.4)	88.9(0.5)	93.8(0.6)	98.5(0.7)	103.1(0.7)	104.3(1.5)
	>70	271	93.7(0.6)	81.4(3.0)	85.0(1.8)	89.8(0.7)	93.2(0.6)	98.7(0.6)	103.1(0.8)	105.3(1.4)
	19+	1903	91.8(0.3)	81.2(0.7)	83.0(0.3)	87.0(0.3)	91.6(0.4)	96.5(0.4)	101.0(0.6)	103.4(0.5)
Waist:Hip Ratio	19-30	107	0.86(0.01)	0.75(0.01)	0.77(0.01)	0.80(0.01)	0.86(0.01)	0.91(0.01)	0.92(0.02)	0.94(0.03)
	31-50	382	0.87(0.01)	0.76(0.01)	0.77(0.01)	0.83(0.01)	0.87(0.01)	0.92(0.01)	0.95(0.02)	0.96(0.03)
	51-70	327	0.90(0.00)	0.79(0.01)	0.83(0.01)	0.86(0.01)	0.91(0.01)	0.94(0.00)	0.97(0.00)	0.99(0.01)
	>70	135	0.88(0.01)	0.76(0.05)	0.78(0.02)	0.86(0.01)	0.89(0.01)	0.93(0.01)	0.95(0.01)	0.98(0.01)
	19+	951	0.88(0.00)	0.76(0.01)	0.79(0.01)	0.84(0.01)	0.89(0.01)	0.93(0.00)	0.96(0.00)	0.98(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.

- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-36 Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with “overweight” BMI z-score, Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	3 y	55	17.4(0.1)		17.1(0.0)	17.2(0.1)	17.2(0.1)	17.5(0.1)	17.7(0.1)	
	4-8 y	197	18.1(0.1)	16.9(0.0)	17.0(0.0)	17.3(0.1)	17.8(0.1)	18.6(0.2)	19.5(0.2)	20.1(0.2)
	9-13 y	273	22.1(0.2)	19.5(0.1)	19.9(0.2)	21.0(0.3)	22.3(0.2)	23.2(0.2)	24.2(0.2)	24.6(0.2)
	14-18 y	168	26.2(0.2)	23.6(0.2)	24.2(0.3)	25.3(0.3)	26.3(0.3)	27.3(0.2)	28.0(0.2)	28.3(0.2)
Weight (kg)	3 y	55	17.8(0.3)		15.7(0.2)	16.5(0.4)	17.9(0.4)	18.5(0.3)	19.4(0.5)	
	4-8 y	197	27.5(0.7)	18.8(0.4)	20.2(0.4)	21.8(0.7)	27.3(1.0)	32.8(1.0)	36.0(1.0)	37.9(1.1)
	9-13 y	273	52.6(1.1)	38.7(0.9)	39.7(0.6)	42.8(1.3)	52.3(1.7)	60.5(1.2)	65.7(1.5)	70.7(1.9)
	14-18 y	168	79.0(1.1)	66.1(1.4)	68.2(1.8)	73.2(1.3)	78.5(1.4)	84.8(1.2)	88.7(1.8)	93.4(1.5)
Height (cm)	3 y	55	101.2(0.8)		94.8(0.7)	97.3(1.2)	101.7(1.2)	103.5(0.8)	105.6(1.4)	
	4-8 y	197	122.4(1.2)	105.4(0.9)	108.2(1.0)	111.9(1.6)	122.9(2.0)	132.4(1.4)	136.9(1.2)	139.2(1.0)
	9-13 y	273	153.3(1.1)	137.3(2.4)	139.9(0.9)	144.6(0.9)	151.5(1.8)	161.6(1.6)	166.9(1.6)	171.1(1.4)
	14-18 y	168	173.4(1.1)	162.3(1.7)	164.3(1.9)	168.4(1.8)	173.9(1.0)	178.3(1.1)	182.2(0.9)	184.5(1.1)
Waist circumference (cm)	3 y	55	51.7(0.7)		46.4(2.4)	50.6(1.6)	52.2(0.9)	52.7(0.5)	54.5(0.5)	
	4-8 y	197	59.7(0.7)	52.8(0.3)	53.4(0.4)	54.5(0.6)	58.9(0.9)	63.3(1.0)	67.5(1.5)	69.2(2.0)
	9-13 y	273	76.6(0.8)	66.1(0.9)	68.6(0.7)	71.3(0.9)	76.8(1.0)	80.5(0.8)	84.2(1.0)	86.3(2.3)
	14-18 y	167	87.0(0.8)	77.7(2.2)	78.8(1.5)	83.1(1.0)	86.9(0.6)	91.3(1.0)	94.5(1.1)	98.6(1.0)
Waist:Hip Ratio	3 y	32	0.88(0.02)			0.83(0.05)	0.88(0.03)	0.93(0.02)		
	4-8 y	92	0.87(0.01)		0.77(0.03)	0.83(0.02)	0.87(0.01)	0.91(0.01)	0.94(0.02)	
	9-13 y	129	0.87(0.01)	0.80(0.01)	0.80(0.01)	0.83(0.01)	0.88(0.01)	0.91(0.02)	0.97(0.01)	0.98(0.02)
	14-18 y	85	0.86(0.01)		0.81(0.01)	0.82(0.01)	0.85(0.01)	0.88(0.02)	0.93(0.02)	

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.

- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-37 Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with “overweight” BMI z-score, Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	3 y	55	17.6(0.1)		17.2(0.0)	17.3(0.1)	17.6(0.1)	17.8(0.1)	18.1(0.1)	
	4-8 y	218	18.2(0.1)	16.9(0.0)	17.0(0.1)	17.2(0.1)	18.0(0.2)	19.0(0.2)	20.0(0.1)	20.3(0.1)
	9-13 y	224	22.8(0.3)	19.9(0.2)	20.5(0.3)	21.5(0.3)	22.9(0.2)	23.9(0.3)	25.2(0.5)	26.0(0.5)
	14-18 y	186	26.8(0.2)	24.2(0.2)	24.7(0.3)	25.5(0.2)	26.9(0.3)	28.2(0.2)	29.0(0.2)	29.5(0.3)
Weight (kg)	3 y	55	17.7(0.3)		15.7(0.3)	16.4(0.4)	17.8(0.4)	19.0(0.4)	19.2(0.5)	
	4-8 y	218	26.6(0.6)	17.7(0.6)	18.4(0.7)	20.7(0.7)	25.2(1.0)	30.9(1.2)	36.0(0.8)	38.2(1.0)
	9-13 y	224	53.3(1.4)	38.3(1.1)	41.3(0.9)	44.4(1.5)	52.6(2.0)	59.9(2.1)	67.2(2.2)	69.6(1.7)
	14-18 y	186	71.1(0.8)	59.8(1.3)	61.7(1.2)	66.1(1.0)	70.6(0.9)	75.2(1.1)	80.2(1.5)	85.8(1.1)
Height (cm)	3 y	55	100.2(0.9)		94.7(1.0)	97.0(1.2)	100.9(1.1)	102.6(0.9)	104.7(1.2)	
	4-8 y	218	119.6(1.1)	100.9(1.3)	103.4(1.9)	110.0(1.7)	119.7(1.4)	127.6(1.8)	135.0(1.3)	137.8(2.1)
	9-13 y	224	152.0(1.3)	134.6(1.6)	139.2(1.5)	144.7(1.3)	152.5(1.8)	159.8(1.3)	162.8(2.4)	169.5(2.2)
	14-18 y	186	162.7(0.8)	150.9(1.2)	153.5(1.6)	158.8(1.1)	162.1(0.8)	166.9(0.9)	170.8(0.9)	173.0(1.3)
Waist circumference (cm)	3 y	55	53.0(0.7)		50.0(0.4)	51.2(0.5)	52.7(0.7)	54.3(0.8)	55.7(0.8)	
	4-8 y	218	60.3(0.6)	52.1(0.6)	53.3(0.6)	55.5(0.6)	59.4(0.9)	63.7(1.0)	69.2(1.0)	69.9(1.7)
	9-13 y	223	77.3(0.9)	66.5(0.7)	68.4(0.9)	72.9(0.9)	76.5(0.8)	80.6(1.1)	86.6(2.3)	91.4(2.4)
	14-18 y	185	86.2(0.9)	76.3(0.6)	77.4(0.7)	80.9(0.9)	85.0(0.9)	90.9(1.4)	96.0(1.8)	98.8(2.3)
Waist:Hip Ratio	3 y	28	0.90(0.01)			0.87(0.01)	0.88(0.01)	0.91(0.02)		
	4-8 y	115	0.89(0.01)	0.82(0.01)	0.83(0.01)	0.86(0.01)	0.90(0.01)	0.94(0.01)	0.96(0.01)	0.97(0.01)
	9-13 y	96	0.87(0.01)		0.80(0.01)	0.83(0.01)	0.88(0.01)	0.90(0.02)	0.95(0.02)	
	14-18 y	89	0.84(0.01)		0.77(0.01)	0.80(0.01)	0.84(0.01)	0.88(0.01)	0.92(0.03)	

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.

- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-38 Body Measurement Summary Statistics, Men 19 years of Age and Older with Body Mass Index > 30 kg/m², Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Body mass index (kg/m ²)	19-30	167	34.8(0.7)	30.2(0.1)	30.4(0.2)	31.0(0.3)	32.7(0.9)	37.7(1.4)	41.9(1.1)	42.9(1.7)
	31-50	757	34.3(0.4)	30.2(0.1)	30.5(0.1)	31.0(0.2)	32.8(0.3)	36.1(0.6)	40.0(1.2)	43.4(1.9)
	51-70	702	33.9(0.2)	30.3(0.0)	30.5(0.1)	31.2(0.1)	32.8(0.2)	35.5(0.4)	38.9(0.6)	41.3(0.8)
	>70	171	33.3(0.3)	30.1(0.1)	30.4(0.1)	30.9(0.2)	32.3(0.3)	34.4(0.4)	37.5(1.0)	40.4(1.1)
	19+	1797	34.2(0.2)	30.2(0.0)	30.4(0.0)	31.1(0.1)	32.8(0.2)	35.9(0.4)	40.0(0.7)	43.0(0.8)
Weight (kg)	19-30	167	110.9(2.4)	90.5(3.8)	94.5(2.8)	98.6(1.3)	106.3(2.2)	121.3(4.7)	134.4(5.8)	145.1(7.1)
	31-50	757	107.2(1.2)	87.9(1.7)	91.5(1.2)	97.4(0.7)	103.3(1.0)	114.0(1.5)	127.4(3.7)	139.3(7.1)
	51-70	702	103.6(0.8)	84.9(0.7)	88.2(0.8)	93.6(0.8)	100.6(0.7)	109.5(1.4)	122.3(2.6)	132.5(3.1)
	>70	171	98.4(1.1)	81.5(1.1)	84.9(1.0)	89.8(1.2)	97.1(1.4)	103.4(1.6)	114.3(2.2)	123.4(3.2)
	19+	1797	105.8(0.8)	86.0(1.0)	89.5(0.8)	95.7(0.6)	102.6(0.5)	111.5(1.2)	126.9(2.5)	138.5(3.7)
Height (cm)	19-30	167	178.3(1.1)	165.8(6.6)	170.8(4.4)	175.2(1.0)	179.9(0.9)	182.8(0.8)	185.1(1.1)	185.6(2.2)
	31-50	757	176.6(0.4)	166.3(1.1)	168.5(0.7)	172.3(0.6)	176.6(0.5)	180.9(0.7)	185.4(0.7)	187.0(0.8)
	51-70	702	174.6(0.3)	163.7(0.6)	166.3(0.5)	170.1(0.4)	174.3(0.4)	178.8(0.5)	183.4(0.8)	187.0(0.9)
	>70	171	171.7(0.6)	160.2(2.0)	162.5(1.2)	167.4(0.9)	171.7(0.6)	176.3(0.7)	179.5(1.1)	180.5(1.0)
	19+	1797	175.7(0.3)	164.4(0.6)	167.4(0.5)	171.4(0.3)	175.7(0.3)	180.5(0.4)	184.4(0.5)	186.6(0.6)
Waist circumference (cm)	19-30	167	113.2(2.4)	95.7(1.3)	98.2(1.9)	103.3(1.9)	109.9(1.9)	118.7(4.4)	133.8(4.1)	138.0(5.5)
	31-50	757	113.7(1.0)	98.3(1.0)	101.6(1.0)	105.0(0.6)	111.9(0.9)	119.4(1.1)	128.3(2.7)	135.5(4.9)
	51-70	699	115.4(0.5)	101.9(0.6)	104.0(0.6)	108.0(0.5)	113.0(0.6)	119.7(1.1)	129.8(1.5)	137.4(1.5)
	>70	170	117.5(1.0)	104.2(1.2)	106.5(0.9)	111.2(0.9)	115.6(1.0)	122.2(1.2)	129.9(1.9)	133.7(5.7)
	19+	1793	114.5(0.6)	99.7(0.8)	102.3(0.5)	106.4(0.5)	112.4(0.5)	119.5(0.9)	130.2(1.7)	137.8(1.8)
Waist:Hip Ratio	19-30	79	0.96(0.02)		0.84(0.03)	0.91(0.03)	0.98(0.02)	1.01(0.01)	1.03(0.01)	
	31-50	380	1.00(0.01)	0.91(0.01)	0.93(0.01)	0.97(0.01)	1.00(0.01)	1.03(0.01)	1.06(0.01)	1.08(0.01)
	51-70	365	1.03(0.01)	0.94(0.01)	0.96(0.01)	1.00(0.00)	1.02(0.01)	1.07(0.01)	1.11(0.01)	1.13(0.01)
	>70	80	1.05(0.01)		0.99(0.01)	1.01(0.01)	1.05(0.01)	1.08(0.01)	1.10(0.03)	
	19+	904	1.01(0.00)	0.90(0.02)	0.93(0.01)	0.97(0.01)	1.01(0.00)	1.05(0.01)	1.08(0.00)	1.11(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-39 Body Measurement Summary Statistics, Women 19 years of Age and Older with Body Mass Index > 30 kg/m², Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Body mass index (kg/m ²)	19-30	229	36.4(0.6)	30.7(0.2)	31.0(0.3)	33.2(0.4)	34.9(0.8)	39.4(0.9)	42.7(1.1)	44.1(1.4)
	31-50	715	36.5(0.5)	30.5(0.1)	30.8(0.1)	32.4(0.4)	35.1(0.5)	39.6(1.0)	45.4(1.1)	46.5(1.3)
	51-70	698	35.7(0.3)	30.5(0.1)	30.9(0.1)	32.0(0.2)	34.4(0.4)	37.8(0.4)	42.7(0.7)	44.8(1.3)
	>70	199	34.2(0.3)	30.1(0.1)	30.4(0.1)	31.1(0.3)	33.0(0.4)	35.9(0.5)	39.4(1.1)	42.4(1.8)
	19+	1841	36.0(0.2)	30.5(0.1)	30.8(0.1)	32.2(0.2)	34.6(0.3)	38.4(0.4)	43.2(0.7)	45.5(1.0)
Weight (kg)	19-30	229	99.8(2.4)	77.9(1.4)	80.8(1.4)	87.0(2.4)	97.1(2.5)	112.0(3.1)	119.6(6.8)	132.3(9.4)
	31-50	715	97.7(1.3)	75.7(1.6)	80.4(1.0)	85.3(0.9)	93.9(1.4)	109.9(2.8)	121.7(2.4)	126.7(2.2)
	51-70	698	91.7(0.9)	71.9(1.0)	76.0(0.9)	82.0(0.7)	89.5(0.9)	98.5(1.1)	111.9(2.3)	118.1(2.7)
	>70	199	84.6(0.9)	69.0(1.1)	72.8(1.1)	76.4(1.0)	81.5(1.1)	89.7(1.2)	99.8(2.4)	106.4(4.1)
	19+	1841	94.6(0.8)	74.4(0.7)	77.2(0.5)	83.0(0.4)	90.9(0.7)	102.5(1.6)	117.3(1.5)	124.5(2.0)
Height (cm)	19-30	229	165.2(0.9)	154.4(1.5)	157.0(1.4)	160.8(1.3)	164.4(1.2)	170.1(1.0)	172.7(2.1)	174.9(2.8)
	31-50	715	163.4(0.5)	153.7(1.0)	155.7(0.6)	159.2(0.6)	163.3(0.6)	167.3(0.5)	171.2(1.0)	174.5(1.0)
	51-70	698	160.2(0.5)	148.6(0.9)	151.7(0.8)	155.7(0.5)	160.3(0.6)	164.6(0.5)	168.8(0.8)	171.9(0.8)
	>70	199	157.2(0.5)	148.4(1.1)	149.5(0.9)	153.7(0.8)	156.7(0.6)	160.8(0.7)	164.9(0.6)	166.1(0.7)
	19+	1841	161.9(0.3)	150.2(0.6)	152.7(0.5)	157.2(0.3)	162.1(0.4)	166.4(0.4)	170.6(0.6)	173.3(0.8)
Waist circumference (cm)	19-30	228	110.2(1.7)	93.2(1.9)	96.2(1.7)	100.4(1.4)	108.2(2.2)	117.8(2.8)	125.9(3.3)	132.1(4.0)
	31-50	712	111.6(1.2)	93.9(1.5)	96.0(1.0)	101.3(0.9)	108.5(1.2)	119.9(2.5)	131.8(2.3)	137.3(3.4)
	51-70	698	111.0(0.7)	95.3(0.6)	97.2(0.7)	103.2(0.6)	109.7(0.8)	116.5(1.1)	125.3(1.2)	130.1(2.8)
	>70	197	108.1(0.8)	95.3(1.2)	96.5(0.7)	100.1(1.1)	106.5(1.0)	114.0(0.9)	120.8(1.6)	123.7(3.0)
	19+	1835	110.9(0.6)	94.5(0.7)	96.9(0.5)	102.0(0.4)	108.9(0.6)	117.5(1.1)	128.4(1.8)	134.5(1.8)
Waist:Hip Ratio	19-30	132	0.89(0.02)	0.75(0.07)	0.79(0.05)	0.85(0.02)	0.88(0.02)	0.95(0.02)	0.99(0.02)	0.99(0.01)
	31-50	361	0.91(0.01)	0.82(0.04)	0.84(0.02)	0.87(0.01)	0.90(0.00)	0.95(0.01)	1.00(0.02)	1.03(0.02)
	51-70	366	0.91(0.00)	0.81(0.02)	0.84(0.01)	0.88(0.01)	0.91(0.00)	0.95(0.01)	0.99(0.01)	1.01(0.01)
	>70	111	0.92(0.01)	0.82(0.01)	0.85(0.01)	0.88(0.01)	0.92(0.01)	0.95(0.01)	1.00(0.01)	1.02(0.02)
	19+	970	0.91(0.00)	0.81(0.02)	0.84(0.01)	0.87(0.00)	0.90(0.00)	0.95(0.01)	0.99(0.01)	1.02(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.

- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-40 Body Measurement Summary Statistics, Boys 18 Years of Age and Younger with “obese” BMI z-score, Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	3 y	30	19.5(0.4)			18.6(0.1)	18.8(0.3)	19.3(1.1)		
	4-8 y	182	21.6(0.2)	18.0(0.1)	18.3(0.1)	19.3(0.3)	21.1(0.4)	23.0(0.6)	25.4(0.6)	26.3(0.7)
	9-13 y	224	27.1(0.3)	23.3(0.2)	23.6(0.3)	24.8(0.3)	26.7(0.3)	28.6(0.5)	30.9(0.6)	32.0(0.8)
	14-18 y	166	33.5(1.0)	27.7(0.2)	27.8(0.3)	28.7(0.4)	31.3(1.1)	36.8(1.5)	43.7(2.4)	45.9(2.7)
Weight (kg)	3 y	30	19.1(0.6)			17.4(0.4)	17.8(0.8)	19.6(1.2)		
	4-8 y	182	34.5(0.9)	20.2(0.6)	21.9(0.8)	26.0(1.1)	34.0(1.7)	42.0(1.8)	47.8(1.7)	48.0(2.9)
	9-13 y	224	65.1(1.5)	45.2(1.4)	46.2(0.9)	52.9(1.7)	63.3(2.1)	75.8(2.2)	83.5(1.6)	89.1(2.9)
	14-18 y	166	103.7(3.9)	75.7(2.1)	81.8(2.2)	87.3(2.5)	96.8(3.1)	119.8(7.3)	140.4(6.9)	140.7(6.0)
Height (cm)	3 y	30	98.7(1.0)			96.1(0.7)	97.0(1.3)	100.6(1.5)		
	4-8 y	182	125.0(1.3)	105.0(0.9)	107.3(1.4)	113.8(2.1)	126.1(1.9)	134.3(1.6)	141.1(1.7)	142.3(1.2)
	9-13 y	224	154.0(1.3)	136.2(1.5)	138.7(1.3)	143.6(1.6)	152.9(1.8)	164.0(1.9)	170.6(1.8)	172.9(1.7)
	14-18 y	166	175.3(1.1)	162.8(2.0)	164.3(1.7)	170.3(1.3)	174.0(1.4)	181.3(1.8)	186.0(1.2)	188.9(1.2)
Waist circumference (cm)	3 y	30	56.5(0.8)			54.3(0.9)	55.5(0.9)	56.4(2.6)		
	4-8 y	181	69.6(1.1)	54.6(0.7)	57.4(0.8)	60.4(0.8)	68.1(1.9)	77.1(2.0)	82.4(2.2)	87.8(2.2)
	9-13 y	224	89.7(1.1)	73.0(1.3)	75.9(1.4)	82.0(1.5)	89.2(1.8)	97.0(1.1)	102.2(1.6)	108.2(1.7)
	14-18 y	166	106.6(3.1)	84.9(2.0)	85.0(2.8)	93.1(3.0)	103.8(2.4)	117.1(3.5)	130.7(6.6)	142.7(7.4)
Waist:Hip Ratio	3 y	12	0.92(0.03)				0.90(0.02)			
	4-8 y	92	0.91(0.01)		0.85(0.01)	0.87(0.01)	0.91(0.01)	0.94(0.02)	0.99(0.02)	
	9-13 y	124	0.94(0.01)	0.83(0.02)	0.87(0.02)	0.92(0.01)	0.95(0.01)	0.97(0.01)	0.99(0.01)	1.01(0.02)
	14-18 y	92	0.90(0.01)		0.82(0.01)	0.86(0.02)	0.89(0.02)	0.94(0.01)	0.97(0.01)	

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-41 Body Measurement Summary Statistics, Girls 18 Years of Age and Younger with “obese” BMI z-score, Canada, CHMS 2012-2019

Measure	Age (y)	N	Mean	Percentiles						
				5th	10th	25th	50th	75th	90th	95th
Body mass index (kg/m ²)	3 y	24	20.7(1.6)			18.7(0.5)	18.8(1.4)	21.0(2.2)		
	4-8 y	169	21.9(0.3)	18.4(0.1)	18.5(0.2)	19.8(0.3)	21.6(0.4)	23.6(0.5)	25.0(0.6)	26.4(1.5)
	9-13 y	196	27.8(0.3)	23.0(0.3)	24.0(0.4)	25.6(0.3)	27.3(0.4)	29.5(0.5)	32.0(0.7)	33.7(1.4)
	14-18 y	124	33.9(0.7)	29.1(0.2)	29.9(0.3)	31.2(0.3)	32.3(0.5)	36.2(1.1)	39.6(1.8)	42.4(2.0)
Weight (kg)	3 y	24	20.8(1.5)			17.8(0.9)	20.0(1.5)	22.7(1.6)		
	4-8 y	169	35.6(1.1)	21.6(0.8)	22.6(1.2)	27.7(1.1)	34.1(1.4)	41.9(1.9)	50.2(1.7)	51.2(3.2)
	9-13 y	196	67.5(1.3)	47.0(1.5)	48.9(1.8)	58.1(2.1)	68.3(1.8)	76.8(1.2)	81.2(1.5)	85.4(4.3)
	14-18 y	124	89.8(3.0)	71.5(1.9)	72.2(1.8)	75.3(3.0)	86.5(2.8)	96.1(5.3)	119.0(6.1)	122.7(5.2)
Height (cm)	3 y	24	100.1(1.5)			97.5(1.3)	98.5(1.8)	104.2(2.1)		
	4-8 y	169	125.9(1.2)	107.9(1.3)	108.8(2.0)	115.8(1.9)	126.3(1.3)	134.1(1.7)	144.4(1.8)	144.8(1.7)
	9-13 y	196	155.2(0.9)	140.0(1.5)	142.2(1.1)	148.1(1.5)	155.6(1.4)	163.7(1.1)	167.3(0.9)	167.9(1.0)
	14-18 y	124	162.1(1.6)	149.5(3.5)	149.9(3.2)	156.4(2.7)	162.4(1.6)	167.0(1.4)	172.6(1.4)	175.3(1.2)
Waist circumference (cm)	3 y	23	60.3(3.2)			55.9(1.7)	57.3(2.7)	61.9(3.9)		
	4-8 y	167	69.8(1.2)	55.9(0.8)	57.8(1.2)	61.9(1.3)	68.9(1.4)	75.9(2.0)	85.3(2.0)	85.5(1.8)
	9-13 y	195	88.9(0.9)	73.7(2.3)	77.2(1.8)	83.5(1.1)	88.5(1.2)	93.9(1.4)	99.5(2.1)	104.5(2.1)
	14-18 y	122	103.2(2.0)	88.4(5.2)	91.0(2.6)	94.4(1.2)	99.8(1.5)	109.4(3.8)	120.1(3.6)	121.0(6.0)
Waist:Hip Ratio	3 y	11	0.97(0.03)				0.97(0.02)			
	4-8 y	85	0.91(0.01)		0.84(0.03)	0.87(0.02)	0.93(0.01)	0.96(0.01)	0.99(0.01)	
	9-13 y	103	0.90(0.01)	0.80(0.01)	0.84(0.01)	0.86(0.01)	0.91(0.01)	0.94(0.01)	0.97(0.01)	0.99(0.01)
	14-18 y	63	0.90(0.01)		0.83(0.03)	0.86(0.02)	0.91(0.02)	0.94(0.02)	0.98(0.01)	

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.

- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.

TABLE Y-42 Body Measurement Summary Statistics by Cultural or Racial Group, Men 19 years of Age and Older: Body Mass Index (kg/ m²), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	676	26.1(0.4)	19.6(0.3)	20.6(0.3)	22.5(0.3)	24.8(0.4)	29.2(0.7)	32.6(1.0)	37.4(1.1)
	Other or Multiple Origins	276	26.2(0.7)	19.3(0.6)	20.5(0.5)	22.7(0.4)	25.2(0.4)	28.4(0.8)	32.5(2.3)	38.8(2.7)
31-50	White	2027	28.4(0.3)	20.4(0.5)	22.2(0.4)	24.7(0.2)	27.4(0.3)	31.1(0.3)	35.7(0.6)	39.0(0.8)
	Other or Multiple Origins	799	26.8(0.4)	20.5(0.3)	21.5(0.4)	23.9(0.3)	25.9(0.3)	29.1(0.6)	33.0(0.8)	33.6(2.2)
51-70	White	1736	28.6(0.2)	22.0(0.4)	23.3(0.3)	25.4(0.2)	28.0(0.2)	31.1(0.3)	34.4(0.4)	37.3(0.5)
	Other or Multiple Origins	390	27.4(0.3)	21.8(0.4)	23.3(0.2)	24.4(0.2)	26.4(0.4)	29.6(0.5)	32.6(1.0)	35.2(1.3)
>70	White	485	28.4(0.3)	22.2(0.5)	23.7(0.4)	25.6(0.2)	28.1(0.3)	30.7(0.4)	33.5(0.6)	36.1(0.9)
	Other or Multiple Origins	75	26.9(0.4)		22.5(0.6)	24.1(0.8)	27.4(0.5)	28.3(0.6)	30.8(1.7)	
19+	White	4924	28.0(0.2)	20.7(0.2)	22.1(0.2)	24.4(0.1)	27.3(0.2)	30.8(0.2)	34.4(0.4)	37.9(0.5)
	Other or Multiple Origins	1540	26.8(0.3)	20.5(0.2)	21.5(0.3)	23.9(0.2)	25.9(0.3)	29.0(0.3)	32.7(0.7)	35.7(1.6)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-43 Body Measurement Summary Statistics by Cultural or Racial Group, Men 19 years of Age and Older: Weight (kg), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	677	83.9(1.2)	59.7(0.8)	63.3(1.1)	70.7(1.2)	80.6(1.7)	95.1(1.7)	106.3(2.5)	117.4(4.3)
	Other or Multiple Origins	278	81.8(2.6)	54.9(1.8)	62.3(1.8)	68.5(1.3)	78.6(1.5)	87.7(3.1)	105.6(9.2)	123.7(11.0)
31-50	White	2028	89.9(1.1)	63.9(1.8)	69.6(1.6)	77.8(0.9)	86.2(1.3)	100.5(1.3)	113.6(1.5)	121.4(3.8)
	Other or Multiple Origins	800	81.6(1.1)	61.2(0.9)	64.3(0.7)	71.9(0.9)	79.8(1.0)	90.5(1.7)	99.6(2.2)	105.1(6.5)
51-70	White	1740	88.6(0.5)	66.9(0.9)	70.1(0.8)	77.7(0.7)	87.2(0.6)	97.2(0.9)	108.8(1.2)	116.8(2.1)
	Other or Multiple Origins	393	79.9(1.4)	62.0(1.5)	64.9(0.7)	69.8(1.1)	77.7(1.4)	86.1(2.0)	98.3(2.8)	106.0(5.1)
>70	White	488	84.4(0.8)	64.6(1.6)	69.0(0.9)	74.0(0.8)	82.7(0.8)	92.2(1.3)	102.1(1.5)	107.0(2.9)
	Other or Multiple Origins	77	76.9(1.9)		63.7(2.6)	67.7(2.7)	76.5(2.1)	80.0(3.2)	92.3(5.2)	
19+	White	4933	87.8(0.5)	63.0(0.8)	68.1(0.6)	76.2(0.5)	85.4(0.6)	97.4(0.7)	109.1(0.9)	117.8(1.8)
	Other or Multiple Origins	1548	81.0(0.9)	61.1(0.9)	63.9(0.6)	70.3(0.8)	78.7(0.7)	88.9(1.1)	99.7(2.0)	107.8(5.4)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-44 Body Mass Index (kg/m²), All Percentiles by Cultural or Racial Group, Canada, CHMS 2012-2019

Sex	Age	Population Group	N	Mean	p1	p2	p3
Male	3 years	White	212	16.5(0.2)			14.2(0.2)
Male	3 years	Other or Multiple Origins	128	15.8(0.2)			
Male	4-8 years	White	1105	16.0(0.1)	13.2(0.1)	13.4(0.1)	13.5(0.1)
Male	4-8 years	Other or Multiple Origins	612	16.4(0.2)	12.5(0.4)	13.2(0.3)	13.3(0.3)
Male	9-13 years	White	1162	18.9(0.2)	13.8(0.3)	14.3(0.2)	14.4(0.2)
Male	9-13 years	Other or Multiple Origins	541	19.7(0.2)	13.8(0.2)	14.0(0.2)	14.1(0.2)
Male	14-18 years	White	844	23.8(0.5)	16.1(0.3)	16.7(0.2)	16.9(0.2)
Male	14-18 years	Other or Multiple Origins	397	23.4(0.5)		16.2(0.7)	16.4(0.7)
Female	3 years	White	232	16.3(0.3)			14.0(0.1)
Female	3 years	Other or Multiple Origins	121	16.0(0.2)			
Female	4-8 years	White	1099	16.3(0.1)	13.0(0.1)	13.2(0.1)	13.5(0.1)
Female	4-8 years	Other or Multiple Origins	625	16.3(0.1)	12.8(0.3)	13.1(0.2)	13.4(0.1)
Female	9-13 years	White	1150	19.1(0.2)	13.4(0.6)	13.6(0.2)	13.8(0.2)
Female	9-13 years	Other or Multiple Origins	554	19.3(0.3)	12.9(0.9)	13.3(0.6)	13.9(0.4)
Female	14-18 years	White	830	22.7(0.2)	16.0(0.9)	16.6(0.6)	17.1(0.4)
Female	14-18 years	Other or Multiple Origins	404	22.8(0.5)		15.8(0.4)	16.6(0.5)
Male	19-30 years	White	676	26.1(0.4)	17.2(0.3)	18.4(0.4)	19.0(0.4)
Male	19-30 years	Other or Multiple Origins	276	26.2(0.7)		18.0(0.5)	18.5(0.5)
Male	31-50 years	White	2027	28.4(0.3)	18.6(0.5)	19.4(0.5)	19.8(0.5)
Male	31-50 years	Other or Multiple Origins	799	26.8(0.4)	18.8(0.7)	19.7(0.5)	20.1(0.4)
Male	51-70 years	White	1736	28.6(0.2)	19.7(0.5)	20.7(0.4)	21.0(0.4)
Male	51-70 years	Other or Multiple Origins	390	27.4(0.3)		21.1(0.5)	21.7(0.3)
Male	71 to 79 years	White	485	28.4(0.3)		19.9(0.7)	20.8(0.7)
Male	71 to 79 years	Other or Multiple Origins	75	26.9(0.4)			
Male	19 years and over	White	4924	28.0(0.2)	18.6(0.3)	19.6(0.2)	19.9(0.2)
Male	19 years and over	Other or Multiple Origins	1540	26.8(0.3)	18.3(0.4)	19.3(0.4)	20.1(0.3)
Female	19-30 years	White	661	25.9(0.5)	16.5(0.5)	16.5(0.6)	17.2(0.7)
Female	19-30 years	Other or Multiple Origins	287	25.0(0.5)		16.5(0.6)	16.8(0.6)
Female	31-50 years	White	1949	27.8(0.4)	18.3(0.4)	18.4(0.3)	18.6(0.3)
Female	31-50 years	Other or Multiple Origins	817	25.8(0.4)	17.7(1.9)	18.1(1.1)	18.3(0.7)
Female	51-70 years	White	1732	28.2(0.3)	16.7(1.1)	19.0(0.7)	19.4(0.5)
Female	51-70 years	Other or Multiple Origins	325	27.1(0.5)		19.4(0.4)	19.6(0.4)
Female	71 to 79 years	White	601	27.7(0.3)	17.3(0.4)	19.3(0.4)	20.0(0.5)
Female	71 to 79 years	Other or Multiple Origins	70	27.7(0.5)			
Female	19 years and over	White	4943	27.6(0.3)	16.6(0.5)	18.4(0.3)	18.7(0.2)
Female	19 years and over	Other or Multiple Origins	1499	25.9(0.3)	16.6(0.7)	17.4(0.5)	18.2(0.4)

Data source: Statistics Canada, Canadian Health Measures Survey (CHMS) - Cycles 3 to 6 (2012-2019) Share File

p4	p5	p6	p7	p8	p9	p10	p11	p12	p13
14.3(0.2)	14.3(0.2)	14.4(0.2)	14.7(0.2)	14.7(0.2)	14.7(0.1)	14.8(0.1)	14.9(0.1)	15.0(0.2)	15.1(0.2)
13.9(0.2)	13.9(0.1)	13.9(0.2)	13.9(0.2)	14.1(0.2)	14.2(0.2)	14.2(0.2)	14.2(0.2)	14.2(0.2)	14.3(0.2)
13.6(0.1)	13.8(0.1)	13.9(0.1)	14.1(0.1)	14.2(0.1)	14.2(0.1)	14.3(0.1)	14.3(0.1)	14.4(0.1)	14.4(0.1)
13.3(0.3)	13.5(0.2)	13.7(0.2)	13.7(0.2)	13.8(0.2)	14.0(0.2)	14.1(0.2)	14.1(0.2)	14.2(0.2)	14.3(0.2)
14.6(0.1)	14.7(0.1)	14.9(0.1)	15.0(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.1)	15.4(0.1)
14.4(0.2)	14.4(0.2)	14.6(0.3)	14.8(0.3)	14.9(0.3)	15.1(0.3)	15.3(0.3)	15.4(0.3)	15.6(0.3)	15.8(0.3)
17.1(0.2)	17.5(0.1)	17.6(0.2)	17.7(0.2)	17.9(0.2)	18.0(0.2)	18.0(0.2)	18.1(0.2)	18.2(0.2)	18.4(0.2)
16.8(0.7)	17.1(0.5)	17.6(0.4)	17.9(0.3)	18.1(0.3)	18.1(0.3)	18.1(0.3)	18.2(0.3)	18.2(0.3)	18.4(0.3)
14.1(0.1)	14.2(0.1)	14.2(0.1)	14.2(0.1)	14.2(0.1)	14.4(0.1)	14.5(0.1)	14.5(0.1)	14.5(0.1)	14.6(0.1)
	13.8(0.2)	13.9(0.2)	14.2(0.1)	14.4(0.1)	14.4(0.1)	14.6(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)
13.6(0.1)	13.6(0.1)	13.8(0.1)	13.8(0.1)	14.0(0.1)	14.1(0.1)	14.1(0.1)	14.2(0.1)	14.2(0.1)	14.2(0.1)
13.6(0.1)	13.7(0.1)	13.8(0.1)	13.8(0.1)	13.9(0.1)	14.0(0.1)	14.1(0.1)	14.2(0.1)	14.2(0.1)	14.3(0.1)
14.1(0.2)	14.2(0.2)	14.4(0.2)	14.6(0.2)	14.8(0.2)	14.8(0.2)	15.0(0.2)	15.2(0.2)	15.3(0.2)	15.5(0.2)
14.2(0.3)	14.4(0.2)	14.6(0.2)	14.9(0.2)	15.1(0.2)	15.1(0.2)	15.3(0.2)	15.4(0.2)	15.5(0.2)	15.6(0.1)
17.2(0.3)	17.4(0.2)	17.6(0.2)	17.7(0.2)	17.9(0.2)	18.0(0.2)	18.2(0.2)	18.4(0.2)	18.5(0.2)	18.6(0.2)
16.8(0.5)	16.8(0.5)	16.9(0.5)	17.1(0.5)	17.6(0.5)	17.6(0.5)	18.0(0.5)	18.1(0.4)	18.1(0.4)	18.2(0.4)
19.5(0.3)	19.6(0.3)	19.8(0.3)	19.9(0.3)	20.0(0.3)	20.4(0.3)	20.6(0.3)	20.7(0.3)	20.8(0.3)	20.9(0.4)
18.8(0.6)	19.3(0.6)	19.7(0.5)	19.8(0.5)	20.2(0.5)	20.2(0.5)	20.5(0.5)	20.5(0.5)	20.5(0.5)	20.6(0.5)
20.3(0.5)	20.4(0.5)	21.2(0.4)	21.5(0.4)	21.8(0.5)	22.0(0.4)	22.2(0.4)	22.5(0.4)	22.8(0.4)	23.0(0.4)
20.2(0.4)	20.5(0.3)	20.8(0.3)	20.8(0.3)	21.0(0.4)	21.2(0.4)	21.5(0.4)	21.5(0.4)	21.9(0.4)	22.0(0.4)
21.2(0.4)	22.0(0.4)	22.1(0.4)	22.7(0.4)	23.0(0.3)	23.1(0.3)	23.3(0.3)	23.5(0.2)	23.6(0.2)	23.8(0.2)
21.8(0.4)	21.8(0.4)	22.2(0.4)	22.8(0.3)	23.1(0.2)	23.1(0.2)	23.3(0.2)	23.5(0.3)	23.6(0.3)	23.6(0.3)
21.6(0.6)	22.2(0.5)	22.7(0.5)	23.1(0.5)	23.3(0.5)	23.5(0.5)	23.7(0.4)	23.8(0.3)	24.0(0.3)	24.1(0.3)
			22.0(0.6)	22.2(0.6)	22.4(0.6)	22.5(0.6)	22.5(0.6)	22.7(0.7)	22.8(0.7)
20.3(0.2)	20.7(0.2)	21.0(0.3)	21.3(0.3)	21.6(0.3)	22.0(0.2)	22.1(0.2)	22.3(0.2)	22.5(0.2)	22.7(0.2)
20.2(0.3)	20.5(0.2)	20.7(0.2)	20.8(0.2)	21.0(0.3)	21.3(0.3)	21.5(0.3)	21.7(0.3)	21.9(0.3)	22.1(0.3)
18.1(0.6)	18.6(0.5)	19.0(0.5)	19.2(0.4)	19.3(0.4)	19.3(0.3)	19.4(0.3)	19.7(0.3)	19.7(0.3)	19.7(0.3)
17.4(0.7)	17.4(0.7)	17.6(0.8)	18.5(0.8)	18.9(0.8)	19.0(0.8)	19.5(0.8)	19.7(0.8)	19.7(0.8)	19.9(0.8)
18.7(0.4)	19.1(0.4)	19.6(0.4)	19.8(0.4)	20.1(0.4)	20.2(0.4)	20.5(0.3)	20.7(0.3)	20.8(0.3)	20.9(0.3)
18.7(0.5)	18.9(0.3)	18.9(0.3)	19.3(0.3)	19.4(0.3)	19.6(0.3)	19.6(0.3)	20.2(0.3)	20.5(0.3)	20.5(0.3)
19.6(0.3)	19.9(0.2)	20.1(0.2)	20.3(0.3)	20.5(0.3)	20.8(0.2)	21.0(0.2)	21.3(0.2)	21.5(0.2)	21.7(0.2)
19.6(0.5)	19.7(0.6)	19.8(0.6)	19.8(0.6)	20.0(0.5)	20.1(0.5)	20.6(0.4)	20.9(0.4)	21.5(0.4)	21.8(0.4)
20.1(0.5)	20.1(0.5)	20.5(0.4)	20.9(0.4)	21.2(0.4)	21.6(0.5)	21.8(0.5)	21.9(0.5)	22.2(0.5)	22.4(0.5)
				22.4(1.1)	22.7(1.0)	22.9(1.0)	23.0(0.9)	23.2(0.9)	23.2(0.9)
19.2(0.2)	19.4(0.2)	19.7(0.2)	19.8(0.2)	20.1(0.2)	20.3(0.2)	20.4(0.2)	20.6(0.2)	20.7(0.2)	20.9(0.2)
18.7(0.3)	18.9(0.3)	19.1(0.3)	19.4(0.2)	19.6(0.3)	19.7(0.2)	19.8(0.2)	20.1(0.2)	20.4(0.2)	20.6(0.3)

p14	p15	p16	p17	p18	p19	p20	p21	p22	p23
15.1(0.2)	15.1(0.2)	15.1(0.2)	15.2(0.2)	15.2(0.2)	15.3(0.2)	15.4(0.1)	15.5(0.1)	15.5(0.1)	15.5(0.1)
14.3(0.2)	14.3(0.2)	14.3(0.2)	14.8(0.2)	14.8(0.2)	14.8(0.2)	14.8(0.2)	14.8(0.2)	14.8(0.2)	14.8(0.2)
14.5(0.1)	14.5(0.1)	14.5(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)	14.7(0.1)	14.7(0.1)	14.8(0.1)	14.8(0.1)
14.3(0.1)	14.4(0.1)	14.5(0.1)	14.5(0.1)	14.5(0.1)	14.6(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)	14.7(0.1)
15.5(0.1)	15.7(0.1)	15.7(0.2)	15.8(0.2)	15.8(0.2)	15.9(0.1)	16.0(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)
15.9(0.3)	16.1(0.3)	16.2(0.3)	16.2(0.3)	16.2(0.3)	16.3(0.3)	16.4(0.3)	16.4(0.3)	16.5(0.3)	16.6(0.3)
18.6(0.2)	18.6(0.2)	18.7(0.2)	18.8(0.2)	18.9(0.2)	19.0(0.2)	19.1(0.2)	19.2(0.2)	19.2(0.2)	19.3(0.2)
18.7(0.3)	18.8(0.3)	18.9(0.3)	19.0(0.3)	19.0(0.3)	19.1(0.4)	19.2(0.4)	19.4(0.4)	19.4(0.4)	19.5(0.4)
14.7(0.1)	14.7(0.1)	14.7(0.1)	14.7(0.1)	14.8(0.1)	14.8(0.2)	14.8(0.2)	14.8(0.2)	14.8(0.2)	15.0(0.2)
14.8(0.1)	14.8(0.2)	14.8(0.2)	14.8(0.2)	14.8(0.2)	14.9(0.2)	14.9(0.2)	14.9(0.1)	14.9(0.1)	14.9(0.1)
14.3(0.1)	14.4(0.1)	14.5(0.1)	14.5(0.1)	14.5(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)	14.7(0.1)	14.8(0.1)
14.3(0.1)	14.3(0.1)	14.3(0.1)	14.4(0.1)	14.4(0.1)	14.5(0.1)	14.6(0.1)	14.6(0.1)	14.6(0.1)	14.7(0.1)
15.5(0.2)	15.6(0.2)	15.7(0.1)	15.8(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.0(0.1)
15.7(0.1)	15.7(0.1)	15.8(0.1)	15.8(0.2)	15.9(0.2)	15.9(0.2)	15.9(0.2)	16.0(0.2)	16.1(0.2)	16.2(0.2)
18.8(0.2)	18.8(0.2)	18.9(0.2)	18.9(0.2)	19.0(0.2)	19.0(0.2)	19.1(0.1)	19.2(0.1)	19.4(0.1)	19.5(0.1)
18.3(0.4)	18.4(0.4)	18.6(0.4)	18.8(0.4)	18.8(0.4)	19.0(0.4)	19.2(0.4)	19.3(0.4)	19.4(0.4)	19.4(0.4)
21.1(0.4)	21.2(0.4)	21.5(0.4)	21.6(0.3)	21.7(0.3)	22.0(0.3)	22.1(0.3)	22.2(0.3)	22.3(0.3)	22.3(0.3)
20.7(0.5)	20.9(0.5)	21.1(0.5)	21.2(0.5)	21.3(0.4)	21.6(0.4)	21.6(0.4)	21.7(0.4)	22.0(0.4)	22.5(0.4)
23.2(0.4)	23.3(0.4)	23.6(0.3)	23.8(0.3)	23.9(0.3)	24.0(0.3)	24.0(0.3)	24.1(0.3)	24.2(0.2)	24.4(0.2)
22.4(0.4)	22.6(0.4)	22.7(0.4)	22.9(0.4)	22.9(0.4)	23.2(0.4)	23.3(0.4)	23.4(0.3)	23.5(0.3)	23.7(0.3)
23.9(0.2)	24.1(0.2)	24.2(0.2)	24.5(0.2)	24.5(0.2)	24.6(0.2)	24.7(0.2)	24.9(0.2)	25.0(0.2)	25.1(0.2)
23.7(0.2)	23.7(0.2)	23.7(0.2)	24.0(0.2)	24.1(0.2)	24.1(0.2)	24.2(0.2)	24.3(0.2)	24.3(0.2)	24.3(0.2)
24.3(0.3)	24.4(0.3)	24.6(0.3)	24.8(0.2)	24.9(0.2)	25.0(0.2)	25.1(0.2)	25.3(0.2)	25.4(0.2)	25.4(0.2)
22.9(0.7)	23.0(0.8)	23.0(0.8)	23.3(0.8)	23.4(0.8)	23.6(0.8)	24.0(0.8)	24.0(0.8)	24.0(0.8)	24.0(0.8)
23.0(0.2)	23.0(0.2)	23.2(0.2)	23.3(0.2)	23.5(0.2)	23.6(0.1)	23.9(0.1)	23.9(0.1)	24.0(0.1)	24.1(0.1)
22.5(0.3)	22.6(0.3)	22.9(0.3)	23.0(0.3)	23.1(0.3)	23.3(0.2)	23.4(0.2)	23.5(0.2)	23.6(0.2)	23.7(0.2)
19.7(0.3)	20.0(0.3)	20.3(0.3)	20.3(0.3)	20.3(0.3)	20.4(0.3)	20.5(0.3)	20.6(0.3)	20.7(0.3)	20.7(0.3)
20.1(0.8)	20.3(0.7)	20.5(0.7)	21.0(0.6)	21.1(0.6)	21.3(0.6)	21.6(0.6)	21.7(0.5)	21.7(0.5)	21.7(0.5)
21.1(0.3)	21.2(0.3)	21.2(0.3)	21.3(0.3)	21.5(0.3)	21.8(0.3)	21.9(0.3)	22.1(0.3)	22.2(0.3)	22.4(0.3)
20.6(0.3)	20.8(0.3)	20.8(0.3)	21.0(0.2)	21.2(0.2)	21.3(0.2)	21.3(0.3)	21.4(0.3)	21.4(0.3)	21.5(0.3)
21.8(0.2)	21.9(0.2)	22.1(0.2)	22.2(0.2)	22.4(0.2)	22.4(0.2)	22.5(0.3)	22.7(0.3)	22.8(0.3)	23.0(0.3)
21.8(0.4)	21.9(0.5)	22.2(0.5)	22.4(0.5)	22.4(0.5)	22.4(0.5)	22.5(0.5)	22.5(0.5)	22.6(0.5)	22.7(0.5)
22.6(0.4)	22.8(0.4)	23.0(0.4)	23.2(0.4)	23.4(0.4)	23.5(0.4)	23.6(0.4)	23.7(0.4)	23.8(0.4)	24.0(0.4)
23.3(0.9)	23.3(0.9)	23.4(0.9)	23.4(0.9)	23.7(0.9)	24.0(0.9)	24.2(0.9)	24.3(0.8)	24.3(0.8)	24.3(0.8)
21.1(0.2)	21.3(0.2)	21.4(0.2)	21.6(0.2)	21.7(0.2)	21.8(0.2)	22.0(0.2)	22.1(0.2)	22.2(0.2)	22.4(0.2)
20.8(0.2)	20.8(0.2)	21.1(0.2)	21.3(0.2)	21.4(0.2)	21.5(0.2)	21.6(0.2)	21.7(0.2)	21.7(0.2)	21.9(0.2)

p24	p25	p26	p27	p28	p29	p30	p31	p32	p33
15.5(0.1)	15.6(0.1)	15.6(0.2)	15.7(0.2)	15.7(0.2)	15.7(0.2)	15.7(0.2)	15.8(0.2)	15.8(0.2)	15.9(0.2)
14.8(0.2)	14.9(0.2)	14.9(0.2)	14.9(0.2)	14.9(0.2)	14.9(0.2)	14.9(0.2)	15.0(0.2)	15.0(0.2)	15.0(0.2)
14.8(0.1)	14.8(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.1(0.1)
14.7(0.1)	14.8(0.1)	14.8(0.1)	14.8(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)	15.0(0.1)	15.1(0.1)	15.1(0.1)
16.3(0.1)	16.3(0.1)	16.3(0.1)	16.4(0.1)	16.4(0.1)	16.6(0.1)	16.6(0.1)	16.7(0.2)	16.7(0.2)	16.7(0.2)
16.8(0.2)	16.9(0.2)	17.0(0.2)	17.0(0.2)	17.1(0.2)	17.2(0.2)	17.3(0.2)	17.4(0.2)	17.4(0.3)	17.5(0.3)
19.4(0.2)	19.4(0.2)	19.6(0.2)	19.7(0.2)	19.9(0.2)	19.9(0.2)	20.1(0.2)	20.2(0.2)	20.3(0.2)	20.4(0.2)
19.6(0.4)	19.7(0.4)	19.8(0.4)	20.0(0.3)	20.1(0.3)	20.5(0.3)	20.6(0.3)	20.7(0.3)	20.8(0.3)	20.8(0.4)
15.0(0.2)	15.1(0.2)	15.1(0.2)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.3(0.1)	15.4(0.1)	15.5(0.2)	15.5(0.2)
15.0(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.1(0.1)	15.2(0.1)
14.8(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)	15.0(0.1)	15.0(0.1)	15.1(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)
14.7(0.1)	14.8(0.1)	14.8(0.1)	14.8(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	14.9(0.1)	15.0(0.1)	15.0(0.1)
16.1(0.1)	16.3(0.1)	16.3(0.1)	16.4(0.1)	16.5(0.2)	16.5(0.2)	16.5(0.2)	16.6(0.2)	16.6(0.2)	16.7(0.2)
16.3(0.2)	16.5(0.2)	16.5(0.2)	16.5(0.2)	16.6(0.2)	16.6(0.2)	16.7(0.2)	16.8(0.2)	16.8(0.2)	16.8(0.2)
19.5(0.1)	19.6(0.2)	19.7(0.1)	19.8(0.1)	19.8(0.1)	19.9(0.1)	20.0(0.1)	20.0(0.1)	20.1(0.2)	20.1(0.2)
19.5(0.4)	19.6(0.3)	19.6(0.3)	19.8(0.3)	20.0(0.3)	20.0(0.3)	20.1(0.3)	20.1(0.3)	20.1(0.3)	20.2(0.3)
22.4(0.3)	22.5(0.3)	22.5(0.3)	22.6(0.3)	22.6(0.2)	22.7(0.2)	22.8(0.2)	22.9(0.2)	23.0(0.2)	23.0(0.3)
22.5(0.4)	22.7(0.4)	22.9(0.4)	23.0(0.4)	23.1(0.4)	23.1(0.4)	23.5(0.4)	23.5(0.4)	23.6(0.4)	23.6(0.4)
24.5(0.2)	24.7(0.2)	24.7(0.3)	24.9(0.3)	25.0(0.3)	25.1(0.3)	25.1(0.3)	25.2(0.3)	25.4(0.3)	25.5(0.3)
23.8(0.3)	23.9(0.3)	23.9(0.3)	24.1(0.3)	24.1(0.3)	24.2(0.3)	24.4(0.3)	24.5(0.3)	24.6(0.3)	24.7(0.3)
25.3(0.2)	25.4(0.2)	25.6(0.2)	25.7(0.2)	25.8(0.2)	25.8(0.2)	26.0(0.2)	26.1(0.2)	26.1(0.2)	26.3(0.2)
24.3(0.2)	24.4(0.2)	24.7(0.2)	24.7(0.3)	24.7(0.3)	24.7(0.3)	24.7(0.3)	24.8(0.3)	24.8(0.3)	24.8(0.3)
25.5(0.2)	25.6(0.2)	25.8(0.2)	25.8(0.2)	25.9(0.2)	25.9(0.3)	25.9(0.3)	25.9(0.3)	25.9(0.3)	26.1(0.2)
24.1(0.8)	24.1(0.8)	24.1(0.7)	24.1(0.7)	24.1(0.7)	24.2(0.7)	24.4(0.7)	24.6(0.7)	24.8(0.7)	25.6(0.7)
24.3(0.1)	24.4(0.1)	24.5(0.1)	24.7(0.2)	24.8(0.1)	24.9(0.1)	25.0(0.1)	25.1(0.2)	25.2(0.2)	25.4(0.2)
23.7(0.2)	23.9(0.2)	24.0(0.2)	24.1(0.2)	24.1(0.2)	24.2(0.2)	24.3(0.2)	24.3(0.2)	24.5(0.2)	24.7(0.2)
21.1(0.3)	21.3(0.3)	21.4(0.3)	21.5(0.3)	21.6(0.3)	21.6(0.3)	21.6(0.3)	21.7(0.3)	21.8(0.3)	22.0(0.3)
21.8(0.5)	22.2(0.5)	22.4(0.5)	22.4(0.5)	22.4(0.5)	22.4(0.5)	22.4(0.4)	22.5(0.4)	22.6(0.4)	22.6(0.4)
22.5(0.3)	22.6(0.3)	22.8(0.3)	22.9(0.3)	23.0(0.3)	23.1(0.3)	23.2(0.3)	23.4(0.3)	23.6(0.3)	23.9(0.3)
21.6(0.3)	21.6(0.3)	21.7(0.3)	21.9(0.3)	22.1(0.4)	22.1(0.4)	22.2(0.4)	22.3(0.4)	22.4(0.4)	22.7(0.4)
23.2(0.3)	23.4(0.3)	23.6(0.3)	23.7(0.3)	23.8(0.3)	24.0(0.3)	24.1(0.3)	24.3(0.3)	24.5(0.3)	24.6(0.3)
22.8(0.5)	23.0(0.5)	23.1(0.5)	23.3(0.5)	23.4(0.5)	23.4(0.5)	23.6(0.5)	23.7(0.5)	23.8(0.5)	24.0(0.5)
24.1(0.4)	24.2(0.4)	24.4(0.3)	24.5(0.3)	24.7(0.3)	24.9(0.3)	25.1(0.3)	25.2(0.3)	25.3(0.3)	25.5(0.3)
24.4(0.7)	24.5(0.7)	24.6(0.6)	24.7(0.6)	25.7(0.6)	25.8(0.5)	25.8(0.5)	25.8(0.5)	25.8(0.5)	25.8(0.6)
22.4(0.2)	22.6(0.2)	22.8(0.2)	22.9(0.2)	23.1(0.2)	23.2(0.2)	23.4(0.2)	23.6(0.2)	23.7(0.2)	23.8(0.2)
22.1(0.2)	22.2(0.2)	22.3(0.2)	22.4(0.3)	22.5(0.3)	22.5(0.3)	22.7(0.3)	22.7(0.3)	22.8(0.3)	22.9(0.3)

p34	p35	p36	p37	p38	p39	p40	p41	p42	p43
15.9(0.2)	15.9(0.1)	16.0(0.1)	16.0(0.1)	16.1(0.1)	16.1(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)	16.3(0.1)
15.0(0.2)	15.0(0.2)	15.0(0.2)	15.0(0.2)	15.0(0.2)	15.0(0.2)	15.2(0.2)	15.2(0.2)	15.2(0.2)	15.2(0.2)
15.1(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.2(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.1)	15.4(0.1)	15.4(0.1)
15.1(0.1)	15.2(0.1)	15.2(0.1)	15.2(0.1)	15.2(0.1)	15.2(0.1)	15.3(0.1)	15.4(0.1)	15.4(0.1)	15.5(0.1)
17.0(0.1)	17.0(0.1)	17.1(0.1)	17.1(0.1)	17.2(0.1)	17.3(0.1)	17.3(0.1)	17.4(0.1)	17.5(0.1)	17.5(0.1)
17.5(0.3)	17.6(0.2)	17.7(0.2)	17.7(0.2)	17.9(0.2)	18.0(0.2)	18.0(0.2)	18.1(0.2)	18.2(0.2)	18.2(0.2)
20.6(0.2)	20.7(0.2)	20.8(0.2)	20.8(0.2)	20.9(0.2)	21.0(0.2)	21.0(0.2)	21.1(0.2)	21.2(0.2)	21.2(0.2)
20.9(0.4)	20.9(0.4)	20.9(0.4)	21.0(0.4)	21.1(0.4)	21.1(0.4)	21.3(0.4)	21.4(0.4)	21.4(0.3)	21.4(0.3)
15.6(0.2)	15.6(0.2)	15.6(0.2)	15.6(0.2)	15.6(0.2)	15.6(0.2)	15.6(0.2)	15.6(0.2)	15.6(0.2)	15.7(0.2)
15.2(0.1)	15.2(0.1)	15.2(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.2)	15.3(0.2)	15.3(0.2)	15.4(0.2)	15.4(0.2)
15.2(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.1)	15.3(0.1)	15.3(0.1)	15.4(0.1)	15.5(0.1)	15.5(0.1)	15.5(0.1)
15.0(0.1)	15.1(0.1)	15.1(0.1)	15.2(0.1)	15.2(0.1)	15.3(0.1)	15.3(0.1)	15.4(0.1)	15.4(0.1)	15.4(0.1)
16.8(0.2)	16.8(0.2)	17.0(0.2)	17.0(0.2)	17.1(0.2)	17.2(0.2)	17.3(0.2)	17.4(0.2)	17.5(0.2)	17.6(0.2)
16.9(0.2)	17.0(0.2)	17.2(0.2)	17.3(0.2)	17.4(0.3)	17.4(0.3)	17.5(0.3)	17.6(0.3)	17.7(0.3)	17.8(0.3)
20.2(0.2)	20.2(0.2)	20.3(0.2)	20.4(0.2)	20.6(0.2)	20.7(0.2)	20.7(0.2)	20.8(0.2)	20.9(0.2)	21.0(0.2)
20.3(0.3)	20.3(0.3)	20.4(0.3)	20.4(0.3)	20.6(0.3)	20.6(0.3)	20.6(0.3)	20.7(0.3)	20.8(0.3)	20.8(0.3)
23.2(0.3)	23.3(0.3)	23.3(0.3)	23.4(0.3)	23.4(0.3)	23.5(0.3)	23.6(0.3)	23.9(0.3)	23.9(0.3)	24.0(0.3)
23.6(0.4)	23.7(0.4)	23.7(0.4)	23.8(0.4)	24.0(0.4)	24.1(0.3)	24.3(0.3)	24.3(0.3)	24.6(0.3)	24.6(0.3)
25.7(0.3)	25.8(0.3)	26.0(0.3)	26.1(0.3)	26.1(0.3)	26.2(0.3)	26.4(0.3)	26.5(0.3)	26.5(0.3)	26.6(0.3)
24.9(0.3)	24.9(0.3)	25.1(0.3)	25.2(0.3)	25.2(0.3)	25.2(0.3)	25.3(0.3)	25.3(0.3)	25.3(0.3)	25.4(0.3)
26.4(0.2)	26.5(0.2)	26.7(0.2)	26.8(0.2)	27.0(0.2)	27.1(0.2)	27.2(0.2)	27.3(0.2)	27.3(0.2)	27.4(0.2)
24.9(0.3)	25.1(0.3)	25.2(0.3)	25.3(0.3)	25.5(0.3)	25.6(0.3)	25.6(0.3)	25.6(0.4)	25.7(0.4)	25.8(0.4)
26.2(0.2)	26.5(0.2)	26.6(0.2)	26.7(0.3)	26.8(0.3)	26.9(0.3)	26.9(0.3)	26.9(0.3)	27.0(0.3)	27.1(0.3)
25.6(0.7)	25.6(0.7)	25.7(0.7)	25.7(0.7)	25.7(0.7)	25.8(0.7)	25.9(0.6)	26.0(0.6)	26.1(0.6)	26.3(0.6)
25.5(0.2)	25.7(0.2)	25.8(0.2)	25.9(0.2)	26.0(0.2)	26.1(0.2)	26.2(0.2)	26.3(0.2)	26.4(0.2)	26.6(0.2)
24.7(0.2)	24.8(0.2)	24.9(0.2)	24.9(0.2)	25.1(0.2)	25.2(0.2)	25.2(0.2)	25.3(0.2)	25.3(0.2)	25.3(0.2)
22.0(0.3)	22.0(0.3)	22.1(0.3)	22.1(0.3)	22.3(0.3)	22.4(0.3)	22.5(0.3)	22.7(0.4)	23.0(0.3)	23.0(0.4)
22.7(0.4)	22.7(0.4)	22.9(0.4)	22.9(0.4)	22.9(0.4)	22.9(0.4)	23.0(0.4)	23.0(0.4)	23.3(0.4)	23.3(0.4)
24.0(0.3)	24.2(0.4)	24.3(0.4)	24.4(0.4)	24.5(0.3)	24.6(0.3)	24.8(0.3)	24.9(0.3)	25.0(0.3)	25.1(0.4)
22.7(0.4)	22.7(0.4)	22.9(0.4)	22.9(0.4)	23.1(0.4)	23.3(0.4)	23.5(0.4)	23.6(0.4)	23.7(0.4)	23.8(0.4)
24.8(0.3)	24.9(0.3)	25.0(0.3)	25.1(0.3)	25.2(0.3)	25.3(0.3)	25.5(0.3)	25.7(0.3)	25.8(0.3)	25.9(0.3)
24.1(0.6)	24.3(0.6)	24.3(0.6)	24.3(0.6)	24.4(0.6)	24.5(0.6)	24.6(0.6)	24.7(0.6)	24.8(0.6)	25.0(0.6)
25.5(0.3)	25.6(0.3)	25.6(0.3)	25.8(0.3)	25.9(0.3)	25.9(0.3)	26.0(0.3)	26.0(0.3)	26.1(0.2)	26.3(0.2)
25.8(0.6)	26.2(0.6)	26.2(0.6)	26.2(0.7)	26.3(0.7)	26.3(0.7)	26.3(0.7)	26.3(0.7)	26.3(0.7)	26.4(0.7)
23.9(0.2)	24.1(0.2)	24.3(0.2)	24.4(0.2)	24.5(0.2)	24.7(0.2)	24.9(0.2)	25.0(0.2)	25.1(0.2)	25.2(0.2)
22.9(0.3)	23.1(0.3)	23.2(0.3)	23.4(0.3)	23.5(0.3)	23.5(0.3)	23.6(0.3)	23.7(0.2)	23.9(0.2)	23.9(0.2)

p44	p45	p46	p47	p48	p49	p50	p51	p52	p53
16.4(0.1)	16.4(0.1)	16.5(0.1)	16.5(0.2)	16.5(0.2)	16.6(0.2)	16.6(0.2)	16.6(0.2)	16.6(0.2)	16.6(0.2)
15.2(0.2)	15.2(0.2)	15.3(0.2)	15.3(0.2)	15.3(0.2)	15.4(0.2)	15.4(0.2)	15.4(0.2)	15.4(0.2)	15.5(0.2)
15.4(0.1)	15.4(0.1)	15.5(0.1)	15.5(0.1)	15.5(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.7(0.1)	15.7(0.1)
15.5(0.1)	15.5(0.1)	15.6(0.1)	15.6(0.1)	15.7(0.2)	15.7(0.2)	15.8(0.2)	15.8(0.2)	15.9(0.2)	15.9(0.2)
17.5(0.1)	17.6(0.2)	17.6(0.2)	17.7(0.2)	17.7(0.2)	17.9(0.1)	18.0(0.1)	18.1(0.1)	18.2(0.2)	18.3(0.2)
18.3(0.2)	18.3(0.2)	18.5(0.2)	18.5(0.2)	18.6(0.2)	18.6(0.2)	18.7(0.2)	18.9(0.2)	18.9(0.2)	18.9(0.2)
21.2(0.2)	21.3(0.3)	21.4(0.3)	21.4(0.3)	21.6(0.3)	21.7(0.3)	21.9(0.3)	22.1(0.3)	22.1(0.3)	22.3(0.3)
21.5(0.3)	21.6(0.3)	21.8(0.3)	21.9(0.3)	22.0(0.4)	22.1(0.4)	22.1(0.4)	22.2(0.4)	22.2(0.4)	22.3(0.4)
15.7(0.2)	15.8(0.2)	15.8(0.2)	15.8(0.2)	15.8(0.2)	15.9(0.2)	15.9(0.2)	16.0(0.2)	16.1(0.2)	16.1(0.2)
15.4(0.2)	15.4(0.2)	15.4(0.2)	15.4(0.2)	15.4(0.2)	15.5(0.2)	15.5(0.2)	15.5(0.2)	15.6(0.2)	15.6(0.3)
15.5(0.1)	15.6(0.1)	15.7(0.1)	15.7(0.1)	15.7(0.1)	15.8(0.1)	15.8(0.1)	15.8(0.1)	15.8(0.1)	15.8(0.1)
15.5(0.1)	15.5(0.1)	15.5(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.1)	15.6(0.2)	15.7(0.2)	15.8(0.2)
17.7(0.2)	17.8(0.2)	17.8(0.2)	17.9(0.2)	18.0(0.2)	18.1(0.2)	18.1(0.2)	18.2(0.2)	18.3(0.2)	18.4(0.2)
17.9(0.3)	18.0(0.3)	18.1(0.3)	18.2(0.3)	18.2(0.3)	18.2(0.3)	18.5(0.3)	18.5(0.3)	18.7(0.3)	18.8(0.3)
21.1(0.2)	21.3(0.2)	21.3(0.2)	21.4(0.2)	21.5(0.2)	21.6(0.2)	21.7(0.2)	21.8(0.2)	21.8(0.2)	21.9(0.2)
20.9(0.3)	21.0(0.3)	21.2(0.3)	21.3(0.3)	21.3(0.3)	21.3(0.3)	21.3(0.3)	21.4(0.3)	21.6(0.3)	21.6(0.3)
24.0(0.4)	24.3(0.4)	24.3(0.4)	24.5(0.4)	24.6(0.4)	24.7(0.4)	24.8(0.4)	24.8(0.5)	25.0(0.5)	25.1(0.5)
24.8(0.3)	24.9(0.3)	25.0(0.4)	25.1(0.4)	25.1(0.4)	25.2(0.4)	25.2(0.4)	25.2(0.4)	25.3(0.4)	25.3(0.4)
26.7(0.3)	26.8(0.3)	27.0(0.3)	27.0(0.3)	27.2(0.3)	27.3(0.3)	27.4(0.3)	27.5(0.3)	27.5(0.3)	27.7(0.3)
25.4(0.3)	25.5(0.3)	25.5(0.3)	25.6(0.3)	25.7(0.3)	25.8(0.3)	25.9(0.3)	26.1(0.3)	26.1(0.3)	26.2(0.3)
27.6(0.2)	27.6(0.2)	27.7(0.2)	27.8(0.2)	27.9(0.2)	27.9(0.2)	28.0(0.2)	28.1(0.2)	28.2(0.2)	28.3(0.2)
25.8(0.4)	25.8(0.4)	25.8(0.4)	26.2(0.4)	26.2(0.4)	26.2(0.4)	26.4(0.4)	26.5(0.4)	26.7(0.4)	26.7(0.4)
27.2(0.3)	27.4(0.3)	27.5(0.3)	27.7(0.3)	27.9(0.3)	28.0(0.3)	28.1(0.3)	28.2(0.3)	28.2(0.3)	28.4(0.3)
26.6(0.6)	26.7(0.6)	26.7(0.6)	27.2(0.6)	27.4(0.6)	27.4(0.6)	27.4(0.6)	27.4(0.5)	27.4(0.5)	27.5(0.5)
26.7(0.2)	26.8(0.2)	26.9(0.2)	27.0(0.2)	27.1(0.2)	27.2(0.2)	27.3(0.2)	27.4(0.2)	27.6(0.2)	27.7(0.2)
25.4(0.2)	25.5(0.2)	25.6(0.2)	25.7(0.2)	25.7(0.2)	25.8(0.3)	25.9(0.3)	26.0(0.3)	26.1(0.3)	26.2(0.3)
23.2(0.4)	23.3(0.4)	23.3(0.4)	23.5(0.5)	23.7(0.5)	23.7(0.5)	23.8(0.5)	23.8(0.6)	24.0(0.6)	24.2(0.6)
23.4(0.4)	23.5(0.4)	23.5(0.4)	23.6(0.4)	23.6(0.4)	23.7(0.4)	23.8(0.4)	23.8(0.4)	23.8(0.4)	23.9(0.5)
25.2(0.4)	25.3(0.4)	25.5(0.4)	25.7(0.4)	25.9(0.4)	26.0(0.4)	26.1(0.4)	26.3(0.4)	26.5(0.3)	26.6(0.3)
23.9(0.4)	24.0(0.4)	24.1(0.4)	24.1(0.4)	24.2(0.4)	24.3(0.4)	24.6(0.4)	24.7(0.4)	24.9(0.4)	24.9(0.4)
26.1(0.3)	26.3(0.3)	26.6(0.3)	26.7(0.3)	26.9(0.3)	27.0(0.3)	27.2(0.3)	27.4(0.3)	27.5(0.3)	27.6(0.3)
25.2(0.6)	25.3(0.6)	25.4(0.6)	25.7(0.6)	25.8(0.6)	25.9(0.6)	25.9(0.7)	26.1(0.7)	26.1(0.7)	26.4(0.7)
26.4(0.2)	26.7(0.2)	26.8(0.3)	26.8(0.3)	26.9(0.3)	27.0(0.3)	27.0(0.3)	27.1(0.3)	27.1(0.3)	27.2(0.3)
26.6(0.7)	26.8(0.7)	27.0(0.7)	27.0(0.7)	27.1(0.7)	27.1(0.7)	27.2(0.7)	27.2(0.7)	27.2(0.6)	27.3(0.6)
25.3(0.2)	25.5(0.3)	25.6(0.3)	25.8(0.3)	25.9(0.3)	26.1(0.3)	26.3(0.3)	26.5(0.3)	26.7(0.3)	26.8(0.3)
24.0(0.2)	24.1(0.3)	24.2(0.3)	24.3(0.2)	24.4(0.2)	24.5(0.2)	24.7(0.3)	24.9(0.3)	25.0(0.3)	25.0(0.3)

p54	p55	p56	p57	p58	p59	p60	p61	p62	p63
16.6(0.2)	16.7(0.2)	16.7(0.2)	16.8(0.1)	16.8(0.1)	16.9(0.1)	16.9(0.1)	16.9(0.1)	16.9(0.1)	16.9(0.1)
15.5(0.2)	15.6(0.2)	15.7(0.2)	15.8(0.2)	15.8(0.1)	16.0(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)	16.2(0.2)
15.7(0.1)	15.8(0.1)	15.8(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.0(0.1)
15.9(0.2)	16.0(0.2)	16.0(0.2)	16.0(0.2)	16.1(0.2)	16.1(0.2)	16.2(0.2)	16.2(0.2)	16.3(0.2)	16.3(0.2)
18.4(0.2)	18.5(0.2)	18.6(0.2)	18.6(0.2)	18.7(0.2)	18.7(0.1)	18.9(0.2)	19.0(0.2)	19.1(0.2)	19.1(0.2)
19.1(0.2)	19.3(0.3)	19.3(0.3)	19.3(0.3)	19.4(0.3)	19.5(0.3)	19.5(0.4)	19.6(0.4)	19.7(0.4)	20.0(0.4)
22.4(0.4)	22.5(0.4)	22.6(0.4)	22.8(0.4)	22.9(0.4)	23.0(0.4)	23.1(0.4)	23.3(0.5)	23.4(0.5)	23.6(0.5)
22.3(0.5)	22.4(0.5)	22.4(0.5)	22.6(0.5)	22.8(0.5)	23.1(0.5)	23.2(0.5)	23.3(0.5)	23.5(0.6)	23.6(0.6)
16.1(0.2)	16.1(0.2)	16.2(0.2)	16.2(0.2)	16.2(0.2)	16.2(0.2)	16.2(0.2)	16.3(0.2)	16.3(0.2)	16.4(0.2)
15.7(0.3)	15.7(0.3)	15.7(0.3)	15.8(0.3)	15.8(0.3)	15.8(0.3)	15.8(0.3)	15.9(0.3)	16.0(0.4)	16.0(0.4)
15.9(0.1)	15.9(0.1)	15.9(0.1)	16.0(0.1)	16.0(0.1)	16.0(0.1)	16.1(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)
15.8(0.2)	15.9(0.2)	16.0(0.2)	16.1(0.2)	16.1(0.2)	16.2(0.2)	16.2(0.2)	16.3(0.2)	16.4(0.2)	16.4(0.2)
18.5(0.2)	18.5(0.3)	18.6(0.3)	18.7(0.3)	18.7(0.3)	18.8(0.3)	19.1(0.3)	19.2(0.3)	19.3(0.3)	19.4(0.3)
19.0(0.3)	19.0(0.3)	19.1(0.3)	19.2(0.3)	19.3(0.3)	19.3(0.4)	19.4(0.4)	19.6(0.4)	19.7(0.4)	19.7(0.4)
22.0(0.2)	22.1(0.2)	22.2(0.2)	22.3(0.3)	22.3(0.3)	22.4(0.3)	22.4(0.3)	22.5(0.3)	22.7(0.3)	22.8(0.3)
21.7(0.3)	21.8(0.3)	21.9(0.3)	22.0(0.3)	22.1(0.4)	22.1(0.4)	22.1(0.4)	22.3(0.4)	22.4(0.4)	22.5(0.4)
25.2(0.5)	25.3(0.5)	25.6(0.5)	25.8(0.5)	25.9(0.5)	26.1(0.6)	26.2(0.6)	26.3(0.6)	26.6(0.6)	26.8(0.7)
25.5(0.4)	25.7(0.4)	25.8(0.4)	25.8(0.4)	25.9(0.5)	26.0(0.5)	26.3(0.5)	26.3(0.5)	26.5(0.5)	26.7(0.6)
27.8(0.4)	27.9(0.4)	28.0(0.4)	28.3(0.4)	28.4(0.4)	28.7(0.4)	28.8(0.5)	29.0(0.5)	29.2(0.5)	29.4(0.5)
26.3(0.3)	26.6(0.4)	26.6(0.4)	26.7(0.4)	26.8(0.4)	26.9(0.4)	26.9(0.4)	27.0(0.4)	27.0(0.4)	27.1(0.4)
28.4(0.2)	28.5(0.2)	28.6(0.2)	28.7(0.2)	28.9(0.2)	29.0(0.2)	29.1(0.2)	29.2(0.2)	29.3(0.2)	29.5(0.2)
26.8(0.4)	27.0(0.4)	27.1(0.4)	27.2(0.4)	27.3(0.4)	27.4(0.4)	27.4(0.4)	27.6(0.4)	27.6(0.4)	27.6(0.4)
28.6(0.3)	28.7(0.3)	28.8(0.3)	29.0(0.3)	29.1(0.3)	29.1(0.3)	29.2(0.3)	29.2(0.3)	29.5(0.3)	29.5(0.3)
27.5(0.5)	27.5(0.5)	27.6(0.5)	27.8(0.5)	27.9(0.4)	28.0(0.4)	28.1(0.4)	28.2(0.4)	28.2(0.4)	28.2(0.4)
27.8(0.2)	27.9(0.2)	28.0(0.2)	28.1(0.2)	28.3(0.2)	28.4(0.2)	28.6(0.2)	28.7(0.2)	28.9(0.2)	29.1(0.2)
26.3(0.3)	26.5(0.3)	26.6(0.3)	26.7(0.3)	26.8(0.3)	26.9(0.3)	27.0(0.3)	27.1(0.3)	27.2(0.3)	27.3(0.3)
24.4(0.6)	24.6(0.7)	24.9(0.7)	25.1(0.7)	25.2(0.7)	25.4(0.7)	25.6(0.7)	25.6(0.7)	26.0(0.7)	26.4(0.7)
23.9(0.5)	24.1(0.5)	24.2(0.5)	24.3(0.5)	24.4(0.5)	24.4(0.5)	24.9(0.5)	25.0(0.5)	25.0(0.5)	25.0(0.5)
26.8(0.4)	26.9(0.4)	27.0(0.4)	27.1(0.4)	27.2(0.4)	27.3(0.4)	27.6(0.4)	27.7(0.5)	27.9(0.5)	28.1(0.5)
25.0(0.4)	25.2(0.4)	25.3(0.4)	25.3(0.4)	25.5(0.4)	25.9(0.4)	26.1(0.4)	26.2(0.4)	26.3(0.4)	26.4(0.5)
27.7(0.3)	27.9(0.3)	28.0(0.3)	28.2(0.3)	28.3(0.3)	28.5(0.3)	28.6(0.3)	28.7(0.3)	28.8(0.3)	29.0(0.3)
26.6(0.7)	26.7(0.7)	26.8(0.7)	26.9(0.7)	27.0(0.7)	27.0(0.7)	27.4(0.7)	27.6(0.8)	27.6(0.8)	27.7(0.8)
27.3(0.3)	27.4(0.3)	27.6(0.3)	27.6(0.3)	27.7(0.3)	27.8(0.3)	27.9(0.3)	28.1(0.3)	28.3(0.3)	28.4(0.3)
27.6(0.6)	27.8(0.6)	28.1(0.5)	28.4(0.5)	28.4(0.5)	28.4(0.5)	28.5(0.4)	28.7(0.4)	29.1(0.5)	29.5(0.5)
27.0(0.3)	27.1(0.2)	27.2(0.3)	27.3(0.3)	27.4(0.3)	27.6(0.3)	27.7(0.3)	27.9(0.3)	28.1(0.3)	28.3(0.3)
25.2(0.3)	25.3(0.3)	25.4(0.3)	25.6(0.3)	25.8(0.3)	25.9(0.3)	26.1(0.3)	26.2(0.3)	26.4(0.3)	26.4(0.3)

p64	p65	p66	p67	p68	p69	p70	p71	p72	p73
16.9(0.1)	17.0(0.1)	17.0(0.1)	17.1(0.1)	17.1(0.1)	17.1(0.1)	17.1(0.1)	17.1(0.2)	17.1(0.2)	17.1(0.2)
16.2(0.2)	16.2(0.2)	16.2(0.2)	16.3(0.2)	16.3(0.2)	16.3(0.2)	16.3(0.2)	16.3(0.2)	16.3(0.2)	16.3(0.2)
16.1(0.1)	16.1(0.1)	16.2(0.1)	16.2(0.1)	16.3(0.1)	16.3(0.1)	16.4(0.1)	16.4(0.1)	16.5(0.1)	16.5(0.1)
16.4(0.3)	16.4(0.3)	16.5(0.3)	16.6(0.3)	16.6(0.3)	16.6(0.3)	16.8(0.3)	16.9(0.3)	17.1(0.3)	17.2(0.3)
19.2(0.2)	19.3(0.2)	19.4(0.2)	19.4(0.2)	19.5(0.2)	19.7(0.2)	19.8(0.2)	19.9(0.2)	19.9(0.2)	20.0(0.3)
20.1(0.4)	20.3(0.4)	20.5(0.4)	20.7(0.4)	20.9(0.4)	20.9(0.4)	21.1(0.4)	21.5(0.4)	21.6(0.4)	21.8(0.4)
23.9(0.5)	24.1(0.5)	24.2(0.6)	24.4(0.6)	24.5(0.6)	24.7(0.6)	24.9(0.7)	25.3(0.7)	25.6(0.7)	25.8(0.7)
23.8(0.6)	23.9(0.6)	24.0(0.6)	24.3(0.6)	24.7(0.6)	24.7(0.7)	24.8(0.7)	25.0(0.7)	25.4(0.7)	25.5(0.7)
16.4(0.2)	16.4(0.2)	16.4(0.2)	16.5(0.2)	16.5(0.2)	16.6(0.2)	16.6(0.2)	16.6(0.2)	16.6(0.2)	16.7(0.2)
16.1(0.4)	16.1(0.4)	16.2(0.4)	16.3(0.4)	16.4(0.4)	16.5(0.4)	16.5(0.4)	16.5(0.4)	16.6(0.4)	16.8(0.4)
16.3(0.1)	16.4(0.1)	16.5(0.1)	16.5(0.1)	16.5(0.1)	16.6(0.1)	16.6(0.1)	16.7(0.1)	16.8(0.1)	16.9(0.1)
16.5(0.2)	16.5(0.2)	16.6(0.2)	16.7(0.2)	16.8(0.2)	16.8(0.2)	16.9(0.2)	17.0(0.2)	17.1(0.2)	17.1(0.2)
19.5(0.3)	19.6(0.3)	19.8(0.3)	19.9(0.3)	20.0(0.3)	20.1(0.4)	20.4(0.4)	20.5(0.4)	20.7(0.4)	20.7(0.4)
19.7(0.4)	19.8(0.4)	20.0(0.4)	20.1(0.4)	20.3(0.4)	20.4(0.4)	20.6(0.5)	20.7(0.5)	20.7(0.5)	20.9(0.5)
23.0(0.3)	23.2(0.3)	23.3(0.3)	23.4(0.3)	23.5(0.3)	23.6(0.3)	23.8(0.3)	23.9(0.3)	24.1(0.3)	24.2(0.3)
22.7(0.4)	23.0(0.4)	23.0(0.4)	23.1(0.4)	23.2(0.5)	23.3(0.5)	23.5(0.5)	23.5(0.6)	23.8(0.6)	23.9(0.7)
26.8(0.7)	26.9(0.7)	27.1(0.7)	27.3(0.7)	27.4(0.7)	27.8(0.7)	28.0(0.7)	28.2(0.7)	28.4(0.7)	28.7(0.7)
26.7(0.6)	26.8(0.6)	27.0(0.6)	27.3(0.7)	27.4(0.7)	27.4(0.7)	27.5(0.7)	27.5(0.7)	27.5(0.7)	27.7(0.8)
29.5(0.4)	29.7(0.4)	30.0(0.4)	30.1(0.4)	30.3(0.4)	30.4(0.4)	30.5(0.3)	30.6(0.3)	30.7(0.3)	30.8(0.3)
27.1(0.4)	27.3(0.4)	27.5(0.4)	27.8(0.5)	28.0(0.5)	28.2(0.5)	28.3(0.5)	28.3(0.6)	28.4(0.6)	28.5(0.6)
29.6(0.2)	29.7(0.2)	29.8(0.2)	30.0(0.2)	30.2(0.2)	30.3(0.3)	30.4(0.3)	30.6(0.3)	30.7(0.3)	30.8(0.3)
27.8(0.4)	28.0(0.4)	28.1(0.4)	28.3(0.5)	28.4(0.5)	28.4(0.5)	28.7(0.5)	28.9(0.5)	28.9(0.5)	29.0(0.5)
29.6(0.3)	29.7(0.3)	29.8(0.3)	29.8(0.3)	29.9(0.3)	30.0(0.3)	30.1(0.4)	30.2(0.4)	30.3(0.4)	30.4(0.4)
28.2(0.4)	28.2(0.4)	28.2(0.5)	28.2(0.5)	28.2(0.5)	28.2(0.5)	28.2(0.5)	28.2(0.5)	28.2(0.5)	28.2(0.5)
29.1(0.2)	29.3(0.2)	29.5(0.2)	29.6(0.2)	29.8(0.2)	29.9(0.2)	30.1(0.2)	30.2(0.2)	30.4(0.2)	30.5(0.2)
27.4(0.3)	27.5(0.3)	27.6(0.3)	27.8(0.3)	28.0(0.3)	28.2(0.3)	28.3(0.3)	28.3(0.3)	28.4(0.3)	28.5(0.3)
26.6(0.8)	26.9(0.8)	27.0(0.8)	27.1(0.8)	27.2(0.8)	27.4(0.8)	27.5(0.9)	27.6(0.9)	27.7(1.0)	28.3(1.0)
25.2(0.5)	25.3(0.5)	25.4(0.5)	25.6(0.6)	25.6(0.6)	25.9(0.6)	25.9(0.6)	26.0(0.7)	26.3(0.7)	26.5(0.8)
28.4(0.5)	28.6(0.6)	28.7(0.6)	28.9(0.6)	29.2(0.6)	29.6(0.7)	29.7(0.7)	29.8(0.8)	30.2(0.8)	30.6(0.8)
26.4(0.4)	26.5(0.4)	26.6(0.4)	26.8(0.4)	26.9(0.4)	27.3(0.4)	27.6(0.4)	27.8(0.5)	27.9(0.5)	27.9(0.5)
29.2(0.4)	29.4(0.4)	29.6(0.4)	29.8(0.4)	29.9(0.4)	30.2(0.4)	30.5(0.4)	30.8(0.4)	31.1(0.4)	31.2(0.5)
27.7(0.8)	27.8(0.8)	28.2(0.8)	28.3(0.8)	28.4(0.8)	28.4(0.8)	28.7(0.8)	28.9(0.8)	29.2(0.8)	29.4(0.8)
28.5(0.4)	28.7(0.4)	28.8(0.4)	29.0(0.4)	29.1(0.4)	29.2(0.4)	29.3(0.4)	29.4(0.4)	29.5(0.4)	29.6(0.4)
29.5(0.5)	29.6(0.5)	29.6(0.5)	29.8(0.5)	29.9(0.5)	30.0(0.6)	30.1(0.6)	30.1(0.6)	30.1(0.6)	30.2(0.6)
28.4(0.3)	28.6(0.3)	28.7(0.3)	28.9(0.3)	29.2(0.4)	29.4(0.4)	29.6(0.4)	29.8(0.4)	30.1(0.5)	30.4(0.5)
26.6(0.3)	26.7(0.3)	26.8(0.3)	27.0(0.3)	27.2(0.3)	27.5(0.3)	27.6(0.4)	27.8(0.4)	27.9(0.4)	28.0(0.4)

p74	p75	p76	p77	p78	p79	p80	p81	p82	p83
17.2(0.2)	17.2(0.2)	17.2(0.2)	17.2(0.3)	17.2(0.3)	17.2(0.3)	17.2(0.3)	17.3(0.3)	17.3(0.3)	17.4(0.3)
16.3(0.2)	16.3(0.2)	16.4(0.2)	16.5(0.2)	16.5(0.2)	16.6(0.2)	16.6(0.2)	16.6(0.3)	16.6(0.3)	16.6(0.3)
16.6(0.1)	16.7(0.1)	16.7(0.1)	16.7(0.1)	16.8(0.1)	16.9(0.1)	16.9(0.1)	17.0(0.1)	17.1(0.2)	17.1(0.2)
17.3(0.3)	17.3(0.3)	17.4(0.3)	17.5(0.3)	17.8(0.4)	17.8(0.4)	17.9(0.4)	18.0(0.5)	18.1(0.5)	18.1(0.5)
20.0(0.3)	20.2(0.3)	20.5(0.3)	20.6(0.3)	20.8(0.3)	21.0(0.4)	21.3(0.4)	21.4(0.4)	21.6(0.4)	22.0(0.4)
22.0(0.4)	22.2(0.4)	22.3(0.4)	22.3(0.4)	22.4(0.4)	22.5(0.4)	22.9(0.4)	23.1(0.4)	23.2(0.5)	23.2(0.5)
26.3(0.7)	26.7(0.7)	26.8(0.7)	27.1(0.7)	27.7(0.7)	27.9(0.6)	28.0(0.6)	28.2(0.6)	28.5(0.6)	28.5(0.7)
25.5(0.7)	26.0(0.7)	26.2(0.7)	26.4(0.7)	26.5(0.6)	26.8(0.6)	27.3(0.6)	27.3(0.6)	27.3(0.7)	27.3(0.7)
16.8(0.2)	16.9(0.2)	17.0(0.2)	17.0(0.2)	17.2(0.2)	17.2(0.3)	17.2(0.3)	17.3(0.3)	17.3(0.3)	17.4(0.3)
16.8(0.4)	17.0(0.4)	17.2(0.4)	17.4(0.4)	17.5(0.4)	17.5(0.4)	17.6(0.4)	17.7(0.4)	17.7(0.4)	17.7(0.4)
16.9(0.1)	16.9(0.2)	17.0(0.2)	17.0(0.2)	17.1(0.2)	17.2(0.2)	17.3(0.2)	17.5(0.2)	17.8(0.2)	17.9(0.2)
17.2(0.2)	17.3(0.3)	17.3(0.3)	17.4(0.3)	17.4(0.3)	17.7(0.2)	17.7(0.2)	17.9(0.2)	18.0(0.2)	18.3(0.2)
20.7(0.4)	21.0(0.4)	21.3(0.4)	21.4(0.4)	21.6(0.4)	21.9(0.5)	22.0(0.5)	22.2(0.5)	22.4(0.5)	22.6(0.5)
21.0(0.5)	21.0(0.5)	21.3(0.5)	21.5(0.5)	22.1(0.5)	22.2(0.5)	22.3(0.5)	22.7(0.5)	22.8(0.6)	22.9(0.6)
24.5(0.3)	24.6(0.4)	24.7(0.4)	24.8(0.4)	25.0(0.5)	25.3(0.5)	25.5(0.6)	25.7(0.6)	25.9(0.6)	26.2(0.5)
23.9(0.7)	24.1(0.7)	24.4(0.7)	24.8(0.8)	24.9(0.8)	25.3(0.8)	25.7(0.9)	26.5(1.0)	27.0(1.1)	27.1(1.2)
28.9(0.7)	29.2(0.7)	29.5(0.7)	29.5(0.7)	29.7(0.7)	29.9(0.7)	29.9(0.7)	30.1(0.7)	30.4(0.7)	30.6(0.6)
28.4(0.8)	28.4(0.8)	28.5(0.9)	28.8(0.9)	29.1(1.0)	29.3(1.1)	29.4(1.2)	29.8(1.3)	30.0(1.4)	30.1(1.5)
31.0(0.3)	31.1(0.3)	31.3(0.3)	31.5(0.4)	31.7(0.4)	31.9(0.4)	32.0(0.5)	32.2(0.5)	32.3(0.5)	32.7(0.5)
28.9(0.6)	29.1(0.6)	29.4(0.6)	29.5(0.6)	29.8(0.6)	29.9(0.6)	30.1(0.6)	30.3(0.7)	30.4(0.7)	30.5(0.7)
31.0(0.3)	31.1(0.3)	31.3(0.3)	31.4(0.3)	31.5(0.3)	31.8(0.3)	32.1(0.3)	32.3(0.3)	32.6(0.4)	32.8(0.3)
29.1(0.5)	29.6(0.5)	29.6(0.5)	29.8(0.6)	29.8(0.6)	29.9(0.6)	29.9(0.6)	29.9(0.6)	30.3(0.6)	30.5(0.6)
30.6(0.4)	30.7(0.4)	30.8(0.4)	31.0(0.4)	31.3(0.4)	31.4(0.4)	31.7(0.4)	31.9(0.4)	31.9(0.4)	32.1(0.4)
28.2(0.6)	28.3(0.6)	28.3(0.6)	28.4(0.7)	28.4(0.7)	28.4(0.7)	28.5(0.8)	28.6(0.9)	28.8(0.9)	28.9(1.0)
30.6(0.2)	30.8(0.2)	31.0(0.2)	31.1(0.2)	31.3(0.3)	31.5(0.3)	31.6(0.3)	31.9(0.3)	32.0(0.3)	32.3(0.3)
28.9(0.3)	29.0(0.3)	29.2(0.3)	29.5(0.3)	29.6(0.3)	29.8(0.4)	29.9(0.4)	30.0(0.4)	30.3(0.4)	30.5(0.4)
28.3(1.1)	28.3(1.2)	28.7(1.2)	28.9(1.2)	29.4(1.3)	30.1(1.3)	30.5(1.3)	31.0(1.3)	32.3(1.4)	32.8(1.5)
26.6(0.8)	26.7(0.8)	26.8(0.9)	27.4(0.9)	27.5(0.9)	27.6(0.9)	28.2(1.0)	28.3(1.0)	28.9(1.1)	29.3(1.1)
30.8(0.9)	31.2(0.9)	32.1(0.9)	32.8(0.8)	32.8(0.9)	33.0(0.9)	33.3(0.9)	33.7(0.9)	33.8(0.9)	34.5(0.9)
28.0(0.5)	28.3(0.5)	28.5(0.5)	28.7(0.5)	29.0(0.5)	29.4(0.5)	29.7(0.5)	29.9(0.6)	30.4(0.6)	30.8(0.7)
31.4(0.5)	31.6(0.5)	31.9(0.5)	32.3(0.5)	32.5(0.5)	32.7(0.5)	33.1(0.6)	33.5(0.6)	33.7(0.6)	34.1(0.6)
29.9(0.8)	30.4(0.8)	30.8(0.9)	30.9(0.9)	31.3(0.9)	31.5(0.9)	31.8(0.9)	32.0(0.9)	32.5(1.0)	32.5(1.0)
29.9(0.5)	30.1(0.5)	30.3(0.5)	30.4(0.5)	30.6(0.6)	30.9(0.6)	31.1(0.6)	31.2(0.5)	31.4(0.5)	32.0(0.5)
30.3(0.7)	30.3(0.7)	30.4(0.7)	30.4(0.7)	30.5(0.8)	30.5(0.9)	30.6(0.9)	30.7(1.0)	30.9(1.0)	31.3(1.0)
30.7(0.5)	31.0(0.5)	31.3(0.6)	31.6(0.6)	32.1(0.6)	32.5(0.5)	32.8(0.5)	33.1(0.5)	33.3(0.5)	33.7(0.5)
28.3(0.4)	28.4(0.4)	28.6(0.5)	29.0(0.5)	29.3(0.5)	29.5(0.5)	29.8(0.5)	30.3(0.5)	30.7(0.5)	30.9(0.5)

p84	p85	p86	p87	p88	p89	p90	p91	p92	p93
17.5(0.3)	17.5(0.3)	17.6(0.4)	17.7(0.4)	17.8(0.4)	17.9(0.4)	18.2(0.4)	18.5(0.4)	18.5(0.4)	18.6(0.3)
16.6(0.3)	16.7(0.3)	16.8(0.4)	17.0(0.4)	17.1(0.5)	17.2(0.6)	17.2(0.7)	17.3(0.8)	17.5(0.9)	17.6(1.1)
17.2(0.2)	17.3(0.2)	17.4(0.2)	17.5(0.2)	17.8(0.2)	18.0(0.2)	18.1(0.2)	18.4(0.3)	18.6(0.3)	18.7(0.4)
18.2(0.6)	18.4(0.6)	18.6(0.6)	19.0(0.6)	19.3(0.6)	19.5(0.6)	20.2(0.6)	20.6(0.7)	20.9(0.7)	21.0(0.7)
22.3(0.4)	22.6(0.5)	22.6(0.5)	23.0(0.5)	23.4(0.5)	23.7(0.5)	24.1(0.5)	24.5(0.5)	24.6(0.5)	25.3(0.5)
23.3(0.6)	23.4(0.6)	23.6(0.7)	23.9(0.7)	24.1(0.7)	24.5(0.6)	24.7(0.6)	25.6(0.6)	26.6(0.7)	27.1(0.8)
28.7(0.8)	29.1(0.8)	29.3(0.9)	29.8(1.0)	30.8(1.2)	31.1(1.4)	31.5(1.5)	32.2(1.7)	35.1(1.7)	36.1(1.7)
27.5(0.8)	27.7(0.8)	27.7(0.9)	27.9(0.9)	28.2(1.0)	28.7(1.1)	29.3(1.1)	30.3(1.4)	30.8(1.6)	31.2(1.9)
17.4(0.4)	17.6(0.4)	17.6(0.4)	17.6(0.4)	17.6(0.5)	17.7(0.5)	17.7(0.7)	18.1(0.8)	18.5(1.1)	18.7(1.4)
17.7(0.4)	17.8(0.4)	18.1(0.4)	18.1(0.4)	18.1(0.3)	18.1(0.3)	18.1(0.3)	18.1(0.3)	18.1(0.3)	18.1(0.4)
18.1(0.2)	18.1(0.3)	18.2(0.3)	18.5(0.3)	18.5(0.3)	18.9(0.3)	19.1(0.4)	19.4(0.4)	19.9(0.5)	20.3(0.5)
18.4(0.3)	18.6(0.3)	18.7(0.3)	18.8(0.3)	19.0(0.3)	19.0(0.3)	19.2(0.3)	19.7(0.3)	19.9(0.4)	20.0(0.5)
22.9(0.5)	23.0(0.5)	23.3(0.6)	23.7(0.6)	24.0(0.6)	24.3(0.6)	24.8(0.5)	25.6(0.5)	26.0(0.5)	26.0(0.6)
23.0(0.5)	23.1(0.5)	23.1(0.5)	23.5(0.5)	23.8(0.6)	24.1(0.6)	24.5(0.8)	24.5(0.8)	24.7(0.8)	25.1(0.9)
26.6(0.5)	27.5(0.5)	27.7(0.6)	27.9(0.7)	28.2(0.7)	28.4(0.8)	28.8(0.7)	29.3(0.7)	29.9(0.7)	30.2(0.8)
27.1(1.2)	27.5(1.3)	28.0(1.3)	29.0(1.3)	29.6(1.3)	30.0(1.3)	31.1(1.4)	31.5(1.5)	32.1(1.6)	32.1(1.8)
31.0(0.6)	31.4(0.6)	31.6(0.6)	31.7(0.7)	32.0(0.7)	32.4(0.9)	32.6(1.0)	32.9(1.1)	33.5(1.2)	33.8(1.2)
30.6(1.6)	30.8(1.7)	30.8(1.8)	30.9(2.0)	31.0(2.1)	31.3(2.3)	32.5(2.3)	34.3(2.4)	35.5(2.5)	35.7(2.6)
33.2(0.6)	33.7(0.6)	34.0(0.7)	34.2(0.7)	34.7(0.6)	35.4(0.6)	35.7(0.6)	36.1(0.7)	36.7(0.7)	37.1(0.7)
30.5(0.8)	31.1(0.8)	31.8(0.8)	32.2(0.8)	32.2(0.7)	32.5(0.8)	33.0(0.8)	33.4(1.0)	33.4(1.3)	33.5(1.6)
33.0(0.3)	33.3(0.3)	33.6(0.3)	33.7(0.4)	33.8(0.4)	34.0(0.4)	34.4(0.4)	34.8(0.4)	35.6(0.5)	36.2(0.5)
30.5(0.6)	31.2(0.6)	31.4(0.7)	31.5(0.7)	32.3(0.8)	32.5(0.9)	32.6(1.0)	33.4(1.1)	33.6(1.2)	34.1(1.2)
32.3(0.4)	32.7(0.4)	32.7(0.5)	32.8(0.5)	33.0(0.5)	33.2(0.6)	33.5(0.6)	33.7(0.5)	34.3(0.5)	34.4(0.5)
29.3(1.1)	29.6(1.2)	29.8(1.3)	29.8(1.5)	30.1(1.6)	30.7(1.7)	30.8(1.7)	30.9(1.8)	30.9(1.9)	31.0(1.8)
32.6(0.3)	32.8(0.3)	33.1(0.3)	33.5(0.3)	33.7(0.3)	34.0(0.3)	34.4(0.4)	35.1(0.4)	35.7(0.4)	36.3(0.4)
30.5(0.5)	30.8(0.5)	31.1(0.6)	31.4(0.6)	32.2(0.6)	32.4(0.6)	32.7(0.7)	33.4(0.7)	33.5(0.9)	33.6(1.1)
33.3(1.5)	33.3(1.6)	33.6(1.5)	33.9(1.5)	34.6(1.4)	35.4(1.4)	36.1(1.3)	37.5(1.2)	38.1(1.2)	38.6(1.1)
29.3(1.2)	29.4(1.2)	29.5(1.3)	30.6(1.3)	31.0(1.4)	31.3(1.3)	31.9(1.4)	32.5(1.5)	34.3(1.5)	34.4(1.6)
35.1(0.8)	35.5(0.8)	36.0(0.9)	36.7(0.9)	36.8(1.0)	37.2(1.1)	37.6(1.2)	38.4(1.3)	39.2(1.5)	40.6(1.6)
30.9(0.8)	30.9(0.9)	31.0(0.9)	31.5(0.9)	31.6(1.0)	32.2(1.0)	32.8(1.0)	33.7(1.1)	34.2(1.1)	35.4(1.3)
34.5(0.6)	34.8(0.6)	35.5(0.6)	35.8(0.6)	36.0(0.6)	36.5(0.5)	36.7(0.5)	37.3(0.5)	37.8(0.5)	38.3(0.6)
32.5(1.0)	32.9(1.0)	33.1(1.0)	33.3(1.0)	33.8(0.9)	34.2(1.0)	34.9(1.0)	35.4(1.1)	36.1(1.2)	36.2(1.3)
32.4(0.5)	32.7(0.6)	32.9(0.6)	33.1(0.6)	33.4(0.6)	33.5(0.6)	34.1(0.6)	34.6(0.6)	34.7(0.6)	35.7(0.6)
31.6(1.0)	31.7(0.9)	31.7(0.9)	31.8(0.9)	31.9(0.9)	31.9(0.9)	32.2(0.9)	32.9(0.9)	33.0(0.9)	
34.0(0.5)	34.5(0.5)	35.0(0.6)	35.5(0.5)	36.0(0.5)	36.6(0.5)	36.9(0.5)	37.5(0.5)	37.9(0.6)	38.7(0.6)
31.0(0.5)	31.2(0.6)	31.6(0.6)	31.9(0.7)	32.4(0.7)	32.7(0.8)	33.3(0.8)	34.2(0.8)	34.6(0.8)	35.1(0.8)

p94	p95	p96	p97	p98	p99
18.6(0.3)	18.8(0.3)	19.1(0.3)	19.2(0.5)		
17.7(1.3)	18.1(1.4)	18.3(1.4)			
19.1(0.5)	19.8(0.5)	20.2(0.7)	21.2(1.0)	22.3(0.9)	25.4(0.8)
21.3(0.7)	21.8(0.6)	22.7(0.6)	23.0(0.7)	23.9(0.7)	24.7(1.3)
25.8(0.5)	26.1(0.5)	27.1(0.5)	27.7(0.7)	28.7(0.7)	30.7(1.2)
27.1(0.9)	27.2(0.9)	28.1(0.8)	29.0(0.7)	30.6(0.9)	31.4(1.6)
36.4(1.7)	37.8(1.7)	38.1(2.1)	38.2(2.5)	42.8(2.5)	45.0(3.0)
31.7(2.2)	32.1(2.6)	35.6(2.8)	36.8(3.1)	40.0(3.1)	
18.7(1.6)	18.7(1.8)	18.7(2.1)	20.2(2.3)		
18.1(0.6)	18.3(0.9)				
20.9(0.6)	21.4(0.7)	21.9(0.7)	23.6(0.7)	24.4(0.7)	26.0(0.6)
20.6(0.5)	21.1(0.4)	21.6(0.4)	22.5(0.3)	22.8(0.4)	23.6(2.5)
26.1(0.6)	26.6(0.5)	27.9(0.5)	28.6(0.6)	29.6(0.5)	30.9(0.9)
26.4(1.1)	27.1(1.3)	27.3(1.4)	28.2(1.4)	29.8(1.3)	33.3(2.2)
31.2(0.7)	31.7(0.8)	32.9(0.9)	33.6(1.4)	35.1(2.1)	37.7(1.9)
32.2(1.9)	32.5(2.0)	36.4(2.1)	37.5(2.2)	37.7(2.4)	
34.8(1.1)	37.4(1.1)	38.1(1.1)	39.6(1.1)	40.7(1.3)	43.8(2.1)
35.7(2.7)	38.8(2.7)	40.0(2.7)	41.0(2.7)	41.7(2.6)	
38.2(0.7)	39.0(0.8)	39.3(1.2)	40.0(1.8)	43.1(2.4)	46.8(3.0)
33.5(2.0)	33.6(2.2)	37.0(2.4)	37.6(2.6)	41.6(2.8)	43.4(3.1)
36.6(0.5)	37.3(0.5)	38.3(0.6)	39.4(0.5)	40.9(0.8)	43.5(0.7)
34.5(1.2)	35.2(1.3)	37.1(1.4)	38.7(1.6)	39.3(1.9)	
35.4(0.6)	36.1(0.9)	36.5(1.1)	37.2(1.3)	38.4(1.1)	
36.8(0.4)	37.9(0.5)	38.7(0.5)	39.7(0.5)	41.0(0.9)	45.0(1.5)
34.5(1.3)	35.7(1.6)	37.5(1.8)	39.1(1.8)	42.4(1.7)	43.0(1.2)
38.7(1.1)	40.0(1.2)	40.1(1.4)	40.7(1.3)	43.9(1.1)	44.2(1.9)
34.5(1.7)	34.6(2.0)	36.2(2.4)	36.5(3.4)	39.8(4.1)	
41.8(1.7)	42.6(1.6)	45.0(1.3)	45.5(1.2)	46.0(1.1)	48.8(1.4)
36.0(1.3)	37.0(1.4)	39.0(1.5)	39.8(1.6)	41.9(2.0)	42.5(2.9)
39.3(0.7)	40.0(0.8)	41.2(0.7)	43.0(0.9)	44.0(1.4)	49.0(1.3)
37.4(1.3)	37.7(1.3)	39.3(1.2)	41.0(1.2)	42.4(1.1)	
36.4(0.7)	36.8(0.8)	37.8(0.9)	39.1(1.3)	41.0(1.8)	44.3(1.9)
39.7(0.7)	40.6(0.8)	41.9(0.8)	43.3(0.9)	45.3(0.8)	47.5(1.1)
36.1(0.9)	36.5(1.0)	37.9(1.1)	39.8(1.2)	42.0(1.4)	42.7(2.4)

TABLE Y-45 Body Measurement Summary Statistics by Cultural or Racial Group, Men 19 years of Age and Older: Height (cm), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	676	179.0(0.5)	167.7(1.0)	170.8(0.8)	174.3(0.6)	179.1(0.5)	183.7(0.6)	187.1(0.6)	188.7(1.1)
	Other or Multiple Origins	276	176.3(0.7)	165.7(1.8)	167.7(1.2)	171.3(0.9)	176.6(1.0)	181.2(0.8)	183.8(1.2)	187.1(1.7)
31-50	White	2027	177.8(0.3)	167.0(0.7)	169.3(0.6)	173.4(0.4)	177.3(0.3)	182.3(0.4)	186.6(0.4)	188.5(0.5)
	Other or Multiple Origins	800	174.5(0.5)	163.4(0.6)	165.8(0.5)	170.5(0.8)	174.8(0.5)	178.4(0.7)	182.9(0.7)	185.1(1.6)
51-70	White	1738	175.9(0.3)	163.8(0.5)	167.3(0.4)	171.1(0.4)	175.8(0.4)	180.6(0.4)	184.8(0.6)	187.7(0.9)
	Other or Multiple Origins	390	170.5(0.6)	159.9(1.4)	162.7(0.7)	165.6(0.8)	171.1(0.7)	175.0(0.6)	178.7(0.8)	181.1(1.2)
>70	White	486	172.3(0.4)	161.1(0.7)	164.4(0.6)	168.2(0.4)	172.3(0.6)	176.9(0.4)	179.8(0.7)	182.9(0.7)
	Other or Multiple Origins	75	168.6(1.4)		157.9(1.8)	163.4(1.9)	168.1(1.5)	173.2(1.8)	178.7(1.5)	
19+	White	4927	176.9(0.2)	165.0(0.4)	168.0(0.3)	172.3(0.3)	176.9(0.3)	181.6(0.2)	185.9(0.3)	188.2(0.4)
	Other or Multiple Origins	1541	173.6(0.4)	162.0(0.5)	164.2(0.6)	168.7(0.6)	173.6(0.5)	178.2(0.5)	182.7(0.6)	184.1(0.9)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-46 Body Measurement Summary Statistics by Cultural or Racial Group, Men 19 years of Age and Older: Waist Circumference (cm), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	677	91.0(1.1)	74.0(0.8)	76.2(0.5)	79.9(0.8)	86.6(1.6)	99.5(1.8)	109.7(1.8)	115.8(4.2)
	Other or Multiple Origins	278	89.3(2.0)	68.5(3.6)	73.8(2.3)	80.2(0.9)	86.6(1.4)	95.2(2.2)	107.6(7.6)	122.5(8.7)
31-50	White	2027	99.2(0.8)	78.4(1.2)	82.0(0.7)	89.7(0.8)	96.9(0.8)	107.7(1.3)	118.0(1.0)	122.7(2.1)
	Other or Multiple Origins	800	93.3(1.1)	73.6(1.1)	76.7(1.8)	85.5(1.2)	92.7(0.9)	100.8(1.4)	107.7(2.2)	114.9(6.1)
51-70	White	1733	102.6(0.5)	83.5(1.0)	86.8(0.8)	94.2(0.6)	101.4(0.6)	109.7(0.6)	118.0(1.2)	126.9(1.6)
	Other or Multiple Origins	392	97.3(1.2)	81.1(1.1)	84.0(0.8)	88.7(0.9)	95.0(1.3)	102.6(1.9)	113.6(2.9)	123.6(3.3)
>70	White	481	104.0(0.8)	86.5(1.4)	89.5(1.1)	95.7(0.7)	102.3(0.9)	111.9(1.1)	119.6(1.5)	125.2(2.0)
	Other or Multiple Origins	76	97.7(1.6)		85.0(3.5)	90.3(2.0)	94.7(1.9)	102.9(2.7)	112.4(3.7)	
19+	White	4918	99.2(0.4)	77.4(0.6)	80.8(0.6)	89.0(0.6)	98.1(0.5)	107.8(0.6)	117.4(0.7)	124.7(1.3)
	Other or Multiple Origins	1546	93.6(0.8)	74.1(0.8)	77.9(1.1)	85.0(0.6)	91.7(0.7)	100.6(0.9)	110.8(1.9)	120.0(3.7)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-47 Body Measurement Summary Statistics by Cultural or Racial Group, Men 19 years of Age and Older: Waist:Hip Ratio, Canada,

CHMS 2012-2015

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	365	0.89(0.01)	0.80(0.01)	0.81(0.01)	0.83(0.01)	0.87(0.01)	0.93(0.02)	1.00(0.02)	1.01(0.01)
	Other or Multiple Origins	127	0.88(0.01)	0.79(0.02)	0.81(0.02)	0.85(0.01)	0.87(0.01)	0.90(0.01)	0.94(0.01)	0.97(0.02)
31-50	White	1010	0.95(0.00)	0.83(0.01)	0.86(0.01)	0.90(0.01)	0.95(0.01)	0.99(0.01)	1.03(0.01)	1.05(0.01)
	Other or Multiple Origins	359	0.92(0.01)	0.81(0.01)	0.82(0.01)	0.87(0.01)	0.91(0.01)	0.97(0.01)	1.00(0.01)	1.02(0.01)
51-70	White	935	0.98(0.00)	0.86(0.01)	0.89(0.01)	0.94(0.01)	0.99(0.00)	1.03(0.01)	1.07(0.00)	1.09(0.01)
	Other or Multiple Origins	165	0.96(0.01)	0.86(0.01)	0.89(0.01)	0.92(0.01)	0.95(0.01)	1.00(0.02)	1.06(0.02)	1.08(0.02)
>70	White	232	1.01(0.00)	0.91(0.01)	0.92(0.01)	0.96(0.00)	1.00(0.01)	1.04(0.01)	1.08(0.01)	1.10(0.01)
	Other or Multiple Origins	30	0.96(0.02)			0.93(0.03)	0.96(0.02)	1.00(0.02)		
19+	White	2542	0.95(0.00)	0.82(0.00)	0.84(0.00)	0.90(0.00)	0.96(0.00)	1.00(0.00)	1.05(0.00)	1.08(0.00)
	Other or Multiple Origins	681	0.92(0.00)	0.81(0.01)	0.84(0.01)	0.87(0.01)	0.92(0.00)	0.97(0.01)	1.01(0.01)	1.03(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age. Waist:hip ratio is only for Cycles 3 and 4.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-48 Body Measurement Summary Statistics by Cultural or Racial Group, Women 19 years of Age and Older: Body Mass Index (kg/m²), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	661	25.9(0.5)	18.6(0.5)	19.4(0.3)	21.3(0.3)	23.8(0.5)	28.3(1.2)	36.1(1.3)	40.0(1.2)
	Other or Multiple Origins	287	25.0(0.5)	17.4(0.7)	19.5(0.8)	22.2(0.5)	23.8(0.4)	26.7(0.8)	31.9(1.4)	34.6(2.0)
31-50	White	1949	27.8(0.4)	19.1(0.4)	20.5(0.3)	22.6(0.3)	26.1(0.4)	31.2(0.9)	37.6(1.2)	42.6(1.6)
	Other or Multiple Origins	817	25.8(0.4)	18.9(0.3)	19.6(0.3)	21.6(0.3)	24.6(0.4)	28.3(0.5)	32.8(1.0)	37.0(1.4)
51-70	White	1732	28.2(0.3)	19.9(0.2)	21.0(0.2)	23.4(0.3)	27.2(0.3)	31.6(0.5)	36.7(0.5)	40.0(0.8)
	Other or Multiple Origins	325	27.1(0.5)	19.7(0.6)	20.6(0.4)	23.0(0.5)	25.9(0.7)	30.4(0.8)	34.9(1.0)	37.7(1.3)
>70	White	601	27.7(0.3)	20.1(0.5)	21.8(0.5)	24.2(0.4)	27.0(0.3)	30.1(0.5)	34.1(0.6)	36.8(0.8)
	Other or Multiple Origins	70	27.7(0.5)		22.9(1.0)	24.5(0.7)	27.2(0.7)	30.3(0.7)	32.2(0.9)	
19+	White	4943	27.6(0.3)	19.4(0.2)	20.4(0.2)	22.6(0.2)	26.3(0.3)	31.0(0.5)	36.9(0.5)	40.6(0.8)
	Other or Multiple Origins	1499	25.9(0.3)	18.9(0.3)	19.8(0.2)	22.2(0.2)	24.7(0.3)	28.4(0.4)	33.3(0.8)	36.5(1.0)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-49 Body Measurement Summary Statistics by Cultural or Racial Group, Women 19 years of Age and Older: Weight (kg), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	662	70.5(1.6)	47.9(1.8)	52.3(1.3)	57.6(0.9)	66.1(1.7)	77.3(2.7)	99.7(4.9)	112.5(3.5)
	Other or Multiple Origins	287	65.8(1.3)	44.0(1.5)	47.8(2.0)	57.7(1.9)	63.2(1.3)	73.4(1.6)	87.1(3.5)	93.8(6.8)
31-50	White	1951	76.1(1.0)	52.1(0.8)	55.8(0.6)	62.9(0.8)	71.2(0.9)	85.4(1.5)	105.1(3.8)	117.3(3.3)
	Other or Multiple Origins	818	66.6(1.2)	48.2(1.2)	50.6(0.9)	55.6(0.7)	62.3(1.2)	73.7(1.9)	88.5(3.2)	99.5(4.3)
51-70	White	1738	73.3(0.7)	51.0(1.0)	54.6(0.8)	60.8(0.7)	70.0(0.8)	83.0(1.2)	95.7(1.2)	104.2(2.0)
	Other or Multiple Origins	325	67.2(1.2)	47.2(1.6)	49.7(1.4)	57.3(1.0)	64.6(1.4)	72.9(2.0)	87.0(3.5)	100.1(3.0)
>70	White	606	69.5(0.9)	48.7(1.3)	53.7(1.4)	60.2(1.0)	69.0(0.8)	75.8(1.1)	86.0(1.7)	93.6(2.0)
	Other or Multiple Origins	70	67.3(1.4)		53.1(2.3)	60.1(1.7)	65.1(1.4)	75.7(1.8)	81.3(3.2)	
19+	White	4957	73.3(0.7)	50.6(0.7)	54.2(0.5)	60.1(0.6)	69.7(0.6)	82.2(1.0)	98.1(1.6)	112.0(2.2)
	Other or Multiple Origins	1500	66.6(0.8)	46.4(0.7)	49.8(0.7)	56.1(0.6)	63.2(0.8)	73.4(1.1)	87.7(2.1)	97.4(2.7)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-50 Body Measurement Summary Statistics by Cultural or Racial Group, Women 19 years of Age and Older: Height (cm), Canada, CHMS
2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	661	164.8(0.6)	154.4(1.8)	156.6(0.9)	159.9(0.8)	164.0(0.7)	169.6(0.8)	173.5(0.4)	175.0(1.5)
	Other or Multiple Origins	287	162.2(1.0)	149.1(2.4)	153.6(2.0)	157.6(1.0)	161.8(0.9)	166.1(1.3)	170.9(2.7)	178.6(3.3)
31-50	White	1949	165.4(0.4)	155.7(0.3)	157.2(0.4)	160.6(0.4)	165.5(0.5)	169.7(0.5)	174.1(0.5)	175.7(1.0)
	Other or Multiple Origins	817	160.6(0.4)	150.2(1.0)	153.1(0.8)	156.4(0.5)	160.9(0.5)	164.6(0.5)	168.5(0.5)	170.1(0.6)
51-70	White	1737	161.3(0.3)	150.6(0.7)	153.1(0.5)	156.9(0.4)	161.1(0.4)	165.6(0.4)	169.5(0.4)	171.6(0.4)
	Other or Multiple Origins	327	157.2(0.5)	146.4(0.9)	148.9(0.9)	152.7(0.7)	156.7(0.5)	161.6(0.6)	165.6(0.8)	168.3(1.2)
>70	White	601	158.4(0.3)	148.1(0.8)	150.4(0.7)	154.6(0.5)	158.1(0.4)	162.3(0.4)	166.2(0.4)	168.4(0.5)
	Other or Multiple Origins	70	155.7(0.8)		149.3(0.9)	152.2(1.0)	155.1(1.1)	159.3(1.0)	161.8(1.9)	
19+	White	4948	163.0(0.2)	151.9(0.5)	154.6(0.4)	158.2(0.3)	162.7(0.3)	167.6(0.3)	172.1(0.3)	174.7(0.3)
	Other or Multiple Origins	1501	160.1(0.3)	149.1(0.8)	151.9(0.6)	155.6(0.3)	159.8(0.4)	164.2(0.5)	168.9(0.7)	170.9(1.0)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, "White" only includes those who answered "yes" to White and no other categories. "Other or Multiple Origins" includes those who answered "yes" to of Aboriginal origin, or "yes" to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-51 Body Measurement Summary Statistics by Cultural or Racial Group, Women 19 years of Age and Older: Waist Circumference (cm), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	660	85.5(1.3)	67.3(1.4)	69.8(1.1)	74.3(0.9)	79.9(1.5)	93.3(2.4)	109.5(3.6)	120.2(3.7)
	Other or Multiple Origins	284	82.8(1.4)	64.9(1.3)	68.1(1.4)	73.3(1.0)	78.4(2.1)	89.4(1.6)	102.5(4.2)	113.4(4.4)
31-50	White	1947	92.4(1.1)	69.9(0.7)	73.6(0.7)	80.0(0.9)	88.2(1.2)	101.5(1.4)	118.1(3.0)	129.7(3.2)
	Other or Multiple Origins	816	86.1(1.1)	68.9(1.1)	72.0(0.6)	77.0(0.9)	82.7(1.4)	93.9(1.1)	103.6(2.0)	110.6(2.2)
51-70	White	1739	94.6(0.7)	73.0(0.7)	75.9(0.6)	82.4(0.8)	93.0(0.8)	104.4(1.0)	114.0(1.0)	121.7(1.5)
	Other or Multiple Origins	327	91.8(1.5)	71.4(1.8)	76.5(1.5)	82.0(1.5)	89.9(1.8)	97.9(2.1)	110.8(2.5)	120.2(2.2)
>70	White	602	94.1(0.8)	74.1(1.2)	77.3(1.5)	85.6(1.1)	93.2(0.8)	100.8(0.8)	110.6(1.5)	117.0(1.3)
	Other or Multiple Origins	70	95.1(1.7)		78.9(2.7)	88.0(2.5)	92.9(2.0)	104.3(1.8)	112.1(2.3)	
19+	White	4948	92.1(0.7)	70.5(0.4)	73.6(0.4)	79.3(0.7)	89.6(0.7)	101.9(1.0)	113.9(1.2)	122.9(1.7)
	Other or Multiple Origins	1497	86.8(0.8)	68.2(1.1)	71.8(0.7)	76.7(0.7)	84.6(0.9)	94.5(0.9)	106.4(1.6)	112.8(1.9)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-52 Body Measurement Summary Statistics by Cultural or Racial Group, Women 19 years of Age and Older: Waist:Hip Ratio, Canada, CHMS 2012-2015

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30	White	379	0.83(0.01)	0.74(0.03)	0.75(0.01)	0.79(0.01)	0.82(0.01)	0.88(0.01)	0.92(0.01)	0.95(0.02)
	Other or Multiple Origins	137	0.85(0.01)	0.73(0.01)	0.74(0.02)	0.78(0.02)	0.84(0.02)	0.90(0.02)	0.96(0.02)	0.98(0.02)
31-50	White	978	0.86(0.00)	0.75(0.01)	0.77(0.01)	0.81(0.00)	0.86(0.01)	0.91(0.01)	0.95(0.01)	1.00(0.02)
	Other or Multiple Origins	373	0.87(0.01)	0.77(0.01)	0.79(0.01)	0.83(0.01)	0.87(0.01)	0.90(0.01)	0.93(0.01)	0.97(0.01)
51-70	White	884	0.88(0.00)	0.77(0.01)	0.80(0.00)	0.84(0.00)	0.88(0.01)	0.93(0.00)	0.97(0.00)	0.99(0.01)
	Other or Multiple Origins	149	0.90(0.01)	0.80(0.01)	0.82(0.01)	0.86(0.02)	0.91(0.01)	0.93(0.01)	0.98(0.01)	1.00(0.01)
>70	White	308	0.89(0.00)	0.77(0.02)	0.81(0.01)	0.85(0.00)	0.88(0.00)	0.93(0.00)	0.96(0.00)	0.98(0.01)
	Other or Multiple Origins	37	0.92(0.02)			0.87(0.02)	0.90(0.03)	0.96(0.02)		
19+	White	2549	0.87(0.00)	0.75(0.00)	0.77(0.00)	0.81(0.00)	0.87(0.00)	0.92(0.00)	0.95(0.00)	0.99(0.01)
	Other or Multiple Origins	696	0.87(0.01)	0.76(0.01)	0.78(0.01)	0.82(0.01)	0.87(0.01)	0.92(0.00)	0.97(0.01)	0.99(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age. Waist:hip ratio is only for Cycles 3 and 4;
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-53 Body Measurement Summary Statistics by Cultural or Racial Group, Boys 18 Years of Age and Younger: Body Mass Index (kg/m²), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	212	16.5(0.2)	14.3(0.2)	14.8(0.1)	15.6(0.1)	16.6(0.2)	17.2(0.2)	18.2(0.4)	18.8(0.3)
	Other or Multiple Origins	128	15.8(0.2)	13.9(0.1)	14.2(0.2)	14.9(0.2)	15.4(0.2)	16.3(0.2)	17.2(0.7)	18.1(1.4)
4-8	White	1105	16.0(0.1)	13.8(0.1)	14.3(0.1)	14.8(0.1)	15.6(0.1)	16.7(0.1)	18.1(0.2)	19.8(0.5)
	Other or Multiple Origins	612	16.4(0.2)	13.5(0.2)	14.1(0.2)	14.8(0.1)	15.8(0.2)	17.3(0.3)	20.2(0.6)	21.8(0.6)
9-13	White	1162	18.9(0.2)	14.7(0.1)	15.2(0.1)	16.3(0.1)	18.0(0.1)	20.2(0.3)	24.1(0.5)	26.1(0.5)
	Other or Multiple Origins	541	19.7(0.2)	14.4(0.2)	15.3(0.3)	16.9(0.2)	18.7(0.2)	22.2(0.4)	24.7(0.6)	27.2(0.9)
14-18	White	844	23.8(0.5)	17.5(0.1)	18.0(0.2)	19.4(0.2)	21.9(0.3)	26.7(0.7)	31.5(1.5)	37.8(1.7)
	Other or Multiple Origins	397	23.4(0.5)	17.1(0.5)	18.1(0.3)	19.7(0.4)	22.1(0.4)	26.0(0.7)	29.3(1.1)	32.1(2.6)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-54 Body Measurement Summary Statistics by Cultural or Racial Group, Boys 18 Years of Age and Younger: Weight (kg), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	215	16.5(0.2)	13.0(0.6)	13.9(0.2)	15.0(0.2)	16.7(0.2)	17.8(0.2)	18.8(0.2)	19.2(0.5)
	Other or Multiple Origins	130	15.9(0.2)	13.0(0.3)	13.8(0.3)	14.6(0.2)	15.4(0.2)	16.6(0.4)	19.1(0.6)	19.7(1.4)
4-8	White	1108	23.4(0.3)	16.0(0.2)	16.9(0.2)	19.4(0.2)	22.3(0.3)	26.4(0.3)	30.4(0.6)	33.5(1.2)
	Other or Multiple Origins	613	24.3(0.6)	15.6(0.4)	17.0(0.4)	19.2(0.4)	22.7(0.4)	27.7(0.8)	33.1(1.8)	40.0(2.0)
9-13	White	1164	43.4(0.5)	27.7(0.4)	29.3(0.4)	33.0(0.7)	41.2(0.6)	50.6(0.8)	60.6(1.1)	68.5(1.6)
	Other or Multiple Origins	544	45.6(0.9)	27.2(0.8)	30.4(0.8)	35.4(0.6)	43.0(1.0)	53.9(1.5)	62.5(3.1)	74.5(3.4)
14-18	White	844	74.1(1.8)	50.8(0.8)	53.4(0.8)	60.6(0.8)	69.9(1.0)	81.9(1.7)	97.5(5.1)	123.2(8.1)
	Other or Multiple Origins	398	70.0(1.7)	45.5(2.4)	52.5(2.4)	58.8(1.2)	66.8(1.5)	75.7(1.8)	91.1(3.2)	98.0(11.0)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-55 Body Measurement Summary Statistics by Cultural or Racial Group, Boys 18 Years of Age and Younger: Height (cm), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	212	100.0(0.4)	93.6(1.0)	94.2(1.0)	96.8(0.5)	100.0(0.6)	103.5(0.7)	105.7(0.6)	106.8(0.6)
	Other or Multiple Origins	128	100.3(0.7)	92.8(1.2)	93.8(1.0)	97.3(0.9)	100.4(0.7)	102.4(1.1)	107.4(1.0)	108.1(1.0)
4-8	White	1105	120.1(0.4)	102.8(0.5)	105.8(0.5)	111.6(0.5)	120.5(0.6)	128.1(0.6)	134.4(0.6)	137.2(0.8)
	Other or Multiple Origins	612	120.5(0.7)	103.2(1.0)	105.9(0.8)	111.2(1.0)	121.7(1.0)	128.8(0.9)	133.8(1.1)	137.6(1.4)
9-13	White	1163	150.1(0.6)	132.7(0.7)	135.5(0.7)	140.7(0.6)	148.2(0.9)	159.4(0.8)	167.9(1.1)	170.9(0.8)
	Other or Multiple Origins	541	150.8(0.8)	134.7(0.9)	136.8(0.7)	141.5(0.7)	148.3(1.1)	160.8(1.5)	167.2(1.8)	173.2(1.5)
14-18	White	844	176.1(0.5)	163.8(1.0)	165.9(0.7)	170.8(0.4)	175.7(0.5)	182.0(0.8)	186.0(0.7)	189.0(0.6)
	Other or Multiple Origins	398	172.6(0.8)	157.6(2.4)	163.0(1.8)	167.6(1.0)	172.5(0.8)	178.4(0.8)	182.3(0.5)	184.9(1.2)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-56 Body Measurement Summary Statistics by Cultural or Racial Group, Boys 18 Years of Age and Younger: Waist Circumference (cm) , Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	212	50.7(0.3)	45.4(0.4)	46.3(0.5)	48.4(0.4)	50.9(0.3)	52.5(0.6)	54.6(0.7)	55.8(0.9)
	Other or Multiple Origins	127	48.9(0.4)	44.9(0.6)	45.6(0.5)	46.7(0.3)	48.1(0.5)	50.4(0.5)	52.5(2.0)	54.2(3.0)
4-8	White	1105	54.9(0.3)	47.4(0.3)	49.0(0.2)	51.2(0.2)	54.0(0.3)	57.0(0.4)	61.4(0.6)	65.4(1.6)
	Other or Multiple Origins	609	55.7(0.8)	47.0(0.5)	48.5(0.4)	50.4(0.4)	53.2(0.5)	58.0(1.0)	65.1(2.6)	74.5(3.1)
9-13	White	1165	67.6(0.5)	55.0(0.3)	56.8(0.4)	59.9(0.5)	65.8(0.5)	71.2(0.8)	82.1(1.6)	91.9(2.1)
	Other or Multiple Origins	544	69.7(0.7)	54.9(0.5)	56.5(0.4)	60.6(0.6)	68.1(0.8)	76.5(1.0)	84.9(2.3)	94.5(2.4)
14-18	White	843	82.9(1.4)	66.7(0.5)	68.5(0.5)	72.6(0.5)	77.8(0.6)	88.0(2.1)	105.6(3.9)	117.3(4.1)
	Other or Multiple Origins	398	80.2(1.2)	65.4(0.9)	66.6(1.0)	71.4(0.7)	76.6(1.2)	85.8(1.2)	95.2(2.9)	105.5(6.8)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-57 Body Measurement Summary Statistics by Cultural or Racial Group, Boys 18 Years of Age and Younger: Waist:Hip Ratio, Canada, CHMS 2012-2015

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	109	0.91(0.01)	0.82(0.04)	0.84(0.03)	0.88(0.01)	0.90(0.01)	0.94(0.01)	0.97(0.01)	0.99(0.01)
	Other or Multiple Origins	47	0.90(0.01)			0.88(0.01)	0.92(0.01)	0.93(0.01)		
4-8	White	546	0.87(0.00)	0.80(0.00)	0.81(0.00)	0.84(0.00)	0.87(0.00)	0.90(0.00)	0.93(0.00)	0.95(0.00)
	Other or Multiple Origins	280	0.86(0.01)	0.77(0.01)	0.80(0.01)	0.81(0.01)	0.86(0.01)	0.90(0.01)	0.94(0.02)	0.96(0.02)
9-13	White	604	0.85(0.00)	0.77(0.00)	0.78(0.00)	0.81(0.00)	0.84(0.00)	0.88(0.01)	0.92(0.01)	0.96(0.01)
	Other or Multiple Origins	264	0.85(0.01)	0.76(0.01)	0.77(0.01)	0.80(0.01)	0.85(0.01)	0.89(0.01)	0.96(0.01)	0.98(0.01)
14-18	White	445	0.84(0.01)	0.77(0.01)	0.78(0.00)	0.80(0.00)	0.83(0.01)	0.88(0.01)	0.93(0.01)	0.95(0.01)
	Other or Multiple Origins	184	0.84(0.01)	0.75(0.01)	0.76(0.01)	0.79(0.01)	0.82(0.01)	0.87(0.01)	0.90(0.02)	0.96(0.02)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age. Waist:hip ratio is only for Cycles 3 and 4.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-58 Body Measurement Summary Statistics by Cultural or Racial Group, Girls 18 Years of Age and Younger: Body Mass Index (kg/m²), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	232	16.3(0.3)	14.2(0.1)	14.5(0.1)	15.1(0.2)	15.9(0.2)	16.9(0.2)	17.7(0.7)	18.7(1.8)
	Other or Multiple Origins	121	16.0(0.2)	13.8(0.2)	14.6(0.1)	15.0(0.1)	15.5(0.2)	17.0(0.4)	18.1(0.3)	18.3(0.9)
4-8	White	1099	16.3(0.1)	13.6(0.1)	14.1(0.1)	14.9(0.1)	15.8(0.1)	16.9(0.2)	19.1(0.4)	21.4(0.7)
	Other or Multiple Origins	625	16.3(0.1)	13.7(0.1)	14.1(0.1)	14.8(0.1)	15.6(0.1)	17.3(0.3)	19.2(0.3)	21.1(0.4)
9-13	White	1150	19.1(0.2)	14.2(0.2)	15.0(0.2)	16.3(0.1)	18.1(0.2)	21.0(0.4)	24.8(0.5)	26.6(0.5)
	Other or Multiple Origins	554	19.3(0.3)	14.4(0.2)	15.3(0.2)	16.5(0.2)	18.5(0.3)	21.0(0.5)	24.5(0.8)	27.1(1.3)
14-18	White	830	22.7(0.2)	17.4(0.2)	18.2(0.2)	19.6(0.2)	21.7(0.2)	24.6(0.4)	28.8(0.7)	31.7(0.8)
	Other or Multiple Origins	404	22.8(0.5)	16.8(0.5)	18.0(0.5)	19.6(0.3)	21.3(0.3)	24.1(0.7)	31.1(1.4)	32.5(2.0)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-59 Body Measurement Summary Statistics by Cultural or Racial Group, Girls 18 Years of Age and Younger: Weight (kg),
Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	235	16.0(0.3)	12.4(0.4)	13.1(0.3)	14.4(0.3)	15.6(0.2)	17.2(0.4)	18.4(0.8)	20.2(1.5)
	Other or Multiple Origins	121	16.0(0.3)	12.6(0.3)	13.4(0.3)	15.0(0.3)	15.5(0.3)	16.9(0.5)	19.0(0.7)	19.2(0.9)
4-8	White	1100	23.4(0.3)	15.5(0.1)	16.4(0.2)	18.7(0.2)	22.0(0.3)	25.9(0.4)	31.1(0.9)	37.9(1.5)
	Other or Multiple Origins	626	23.7(0.4)	15.3(0.3)	16.5(0.3)	18.7(0.3)	22.3(0.7)	27.6(0.6)	32.2(1.0)	36.0(1.1)
9-13	White	1151	43.6(0.7)	25.8(0.6)	28.1(0.5)	33.4(0.7)	41.9(0.9)	51.9(1.0)	61.6(1.6)	67.5(2.0)
	Other or Multiple Origins	554	43.2(1.0)	26.5(0.6)	27.8(0.7)	33.4(0.9)	41.4(1.2)	50.8(1.6)	60.0(3.2)	71.5(3.4)
14-18	White	830	61.8(0.6)	45.8(0.8)	48.3(0.8)	52.9(0.5)	59.1(0.7)	67.9(0.7)	77.9(2.4)	87.6(2.3)
	Other or Multiple Origins	405	59.6(1.4)	43.3(2.5)	45.9(1.4)	50.4(1.0)	56.7(0.8)	65.2(1.6)	73.4(3.8)	85.9(7.6)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-60 Body Measurement Summary Statistics by Cultural or Racial Group, Girls 18 Years of Age and Younger: Height (cm), Canada,

CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	232	98.9(0.4)	91.7(0.5)	91.9(0.8)	95.8(0.7)	98.7(0.6)	101.9(0.7)	105.1(0.7)	106.6(0.5)
	Other or Multiple Origins	121	100.0(0.5)	91.5(0.8)	95.1(0.6)	97.4(0.9)	100.4(0.7)	102.6(0.7)	105.3(1.1)	107.0(1.1)
4-8	White	1101	118.6(0.4)	102.3(0.4)	104.9(0.4)	109.8(0.4)	118.1(0.7)	126.3(0.6)	133.0(0.6)	136.2(1.0)
	Other or Multiple Origins	625	119.4(0.8)	100.9(0.7)	104.0(0.9)	110.9(0.8)	119.4(1.1)	127.8(1.1)	135.4(1.0)	137.6(1.1)
9-13	White	1151	149.8(0.5)	130.0(0.9)	133.3(0.8)	141.6(0.9)	150.4(0.6)	158.2(0.7)	164.5(0.8)	167.4(1.0)
	Other or Multiple Origins	555	148.3(0.8)	130.4(1.1)	133.0(1.1)	140.2(1.1)	148.3(0.9)	156.6(1.1)	162.6(1.2)	165.9(1.4)
14-18	White	831	164.9(0.3)	155.5(0.7)	157.5(0.5)	160.6(0.4)	164.9(0.4)	168.8(0.4)	172.4(0.6)	175.3(0.7)
	Other or Multiple Origins	404	161.5(0.7)	150.3(0.7)	151.3(0.9)	156.5(1.1)	161.9(0.8)	166.1(0.7)	170.4(0.9)	172.6(1.1)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, "White" only includes those who answered "yes" to White and no other categories. "Other or Multiple Origins" includes those who answered "yes" to of Aboriginal origin, or "yes" to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-61 Body Measurement Summary Statistics by Cultural or Racial Group, Girls 18 Years of Age and Younger: Waist Circumference (cm), Canada, CHMS 2012-2019

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	230	50.3(0.7)	44.2(1.0)	44.7(0.6)	47.0(0.5)	49.5(0.3)	52.3(0.6)	55.6(1.4)	57.3(3.4)
	Other or Multiple Origins	119	50.7(0.5)	44.5(0.6)	46.3(0.5)	48.2(0.6)	50.0(0.5)	53.4(0.9)	55.9(0.8)	56.9(1.3)
4-8	White	1098	55.6(0.3)	47.2(0.3)	48.8(0.3)	51.0(0.2)	53.8(0.2)	57.8(0.6)	64.5(1.2)	70.6(2.0)
	Other or Multiple Origins	625	55.1(0.4)	46.2(0.3)	47.3(0.4)	49.9(0.4)	54.1(0.6)	58.0(0.6)	64.7(1.0)	68.7(1.3)
9-13	White	1154	67.4(0.6)	53.8(0.5)	55.6(0.5)	59.0(0.4)	65.5(0.7)	72.9(0.9)	82.7(1.3)	88.8(1.3)
	Other or Multiple Origins	553	67.8(0.9)	53.5(0.5)	55.6(0.4)	58.7(0.7)	66.3(0.9)	74.3(1.1)	81.9(2.4)	90.4(2.9)
14-18	White	829	77.1(0.6)	63.9(0.4)	65.2(0.5)	69.0(0.6)	74.1(0.5)	81.9(1.0)	92.7(1.8)	99.2(1.8)
	Other or Multiple Origins	404	77.3(1.3)	62.1(0.8)	65.0(1.0)	68.2(0.7)	74.4(0.8)	81.7(1.5)	94.4(3.9)	101.9(5.8)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-62 Body Measurement Summary Statistics by Cultural or Racial Group, Girls 18 Years of Age and Younger: Waist:Hip

Ratio, Canada, CHMS 2012-2015

Age (y)	Population group	n	Mean	Percentiles						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
3	White	108	0.92(0.01)	0.83(0.01)	0.84(0.01)	0.89(0.01)	0.91(0.01)	0.95(0.01)	0.99(0.01)	1.01(0.01)
	Other or Multiple Origins	50	0.90(0.01)		0.85(0.01)	0.87(0.01)	0.89(0.01)	0.91(0.02)	0.95(0.03)	
4-8	White	523	0.88(0.00)	0.80(0.01)	0.82(0.00)	0.84(0.00)	0.88(0.00)	0.92(0.00)	0.96(0.01)	0.99(0.01)
	Other or Multiple Origins	305	0.87(0.00)	0.78(0.01)	0.80(0.01)	0.83(0.00)	0.86(0.01)	0.90(0.00)	0.94(0.01)	0.96(0.01)
9-13	White	561	0.83(0.00)	0.74(0.01)	0.76(0.01)	0.79(0.01)	0.83(0.00)	0.87(0.01)	0.91(0.01)	0.93(0.01)
	Other or Multiple Origins	281	0.83(0.01)	0.75(0.01)	0.75(0.01)	0.78(0.01)	0.82(0.01)	0.87(0.01)	0.92(0.01)	0.94(0.01)
14-18	White	430	0.80(0.01)	0.71(0.01)	0.73(0.01)	0.76(0.00)	0.80(0.01)	0.85(0.01)	0.88(0.01)	0.93(0.02)
	Other or Multiple Origins	193	0.82(0.01)	0.73(0.01)	0.74(0.01)	0.77(0.01)	0.81(0.01)	0.84(0.01)	0.92(0.02)	0.94(0.01)

- All body measurement results are based on CHMS Cycles 3 (2012-13), 4 (2014-15), 5 (2016-17) and 6 (2018-19) share file, clinical and household files. The population for all cycles was 3 to 79 years of age. Waist:Hip ratio is only from cycles 3 and 4.
- The results from pregnant (adolescents and women) were excluded. Current breastfeeding status was not asked in the questionnaire for CHMS.
- BMI status was determined only in those with both valid measured height and weight. Waist-hip ratio was determined only in those with both valid measured waist and hip circumference; hip circumference was not measured in Cycles 5 or 6.
- BMI status in children 18 and under were determined using CDC percentiles.
- All results use survey weights to obtain estimates for the Canadian population and bootstrap weights to obtain standard errors, and are combined between the four cycles according to the documentation from Statistics Canada with appropriate degrees of freedom specified during the surveyfreq and surveymeans procedures in SAS with varmethod=brr.
- All results are reported in metric units.
- All estimates are reported with corresponding standard error in parentheses.
- Results are not reported in cells with responses from less than 5 unweighted respondents. Percentiles with less than 5 observations on either side of the percentile are also not reported.
- Population group: indicates the cultural or racial background of the respondent. In this analysis, “White” only includes those who answered “yes” to White and no other categories. “Other or Multiple Origins” includes those who answered “yes” to of Aboriginal origin, or “yes” to one or more of South Asian, Chinese, Black, Filipino, Latin American, Arab, Southeast Asian, West Asian, Korean, Japanese, and Other categories.

TABLE Y-63 Body Measurement Summary Statistics by Race/Ethnicity, Men 19 years of Age and Older: Body Mass Index (kg/ m²), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	299	29.2	0.6	19.8	20.8	24.7	28.5	33.0	37.1	41.2
	Non-Hispanic Asian	154	25.7	0.5	19.4	20.6	22.8	25.1	28.2	31.2	32.6
	Non-Hispanic Black	219	27.3	0.6	19.2	20.1	21.9	25.1	30.2	37.3	41.1
	Non-Hispanic White	283	27.5	0.6	18.6	19.8	22.6	26.2	31.6	36.3	39.5
31-50 y	Hispanic	407	30.5	0.3	22.9	24.7	26.8	29.3	33.1	37.0	40.0
	Non-Hispanic Asian	252	27.1	0.3	21.3	22.4	24.0	26.6	29.0	32.1	34.6
	Non-Hispanic Black	332	30.5	0.4	20.4	22.0	25.4	29.0	34.7	39.8	42.9
	Non-Hispanic White	497	30.2	0.3	21.9	23.3	25.7	29.2	33.2	38.6	42.5
51-70 y	Hispanic	506	30.7	0.3	23.7	24.9	27.1	29.5	33.0	37.4	42.0
	Non-Hispanic Asian	227	25.4	0.2	20.3	21.3	23.2	24.7	27.1	29.5	31.1
	Non-Hispanic Black	451	29.6	0.3	20.5	22.6	25.4	28.8	32.9	37.6	40.8
	Non-Hispanic White	543	29.9	0.3	22.1	22.8	25.6	29.1	33.4	37.0	41.1
>70 y	Hispanic	128	28.8	0.4	21.6	23.6	25.3	28.2	31.5	34.8	36.7
	Non-Hispanic Asian	50	24.4	0.5	19.1	20.5	22.0	23.6	26.2	28.9	29.6
	Non-Hispanic Black	130	27.0	0.5	19.0	20.4	22.6	26.3	30.6	33.5	36.5
	Non-Hispanic White	479	29.0	0.3	21.0	22.9	25.8	28.3	32.4	35.3	36.8
19y+	Hispanic	1340	30.1	0.2	21.3	23.5	26.4	29.1	33.0	37.1	40.9
	Non-Hispanic Asian	683	26.1	0.2	20.3	21.4	23.3	25.5	28.4	31.2	33.1
	Non-Hispanic Black	1132	29.1	0.2	19.8	21.1	24.0	27.9	33.0	38.3	41.5
	Non-Hispanic White	1802	29.4	0.2	21.0	22.4	25.0	28.6	32.8	37.1	41.1

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-64 Body Measurement Summary Statistics by Race/Ethnicity, Men 19 years of Age and Older: Weight (kg), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	299	86.5	1.5	56.1	63.1	71.1	84.0	98.5	111.6	121.5
	Non-Hispanic Asian	154	77.4	1.7	54.7	59.7	68.2	76.8	86.0	95.0	101.5
	Non-Hispanic Black	220	85.2	2.1	57.7	60.8	67.7	78.5	94.9	118.6	131.0
	Non-Hispanic White	283	86.7	2.0	57.8	61.5	70.0	82.2	99.1	117.7	132.0
31-50 y	Hispanic	407	88.8	1.0	63.7	68.7	75.7	85.9	98.5	111.2	121.5
	Non-Hispanic Asian	253	80.2	1.0	58.3	63.4	69.9	78.0	86.2	97.2	109.9
	Non-Hispanic Black	332	95.7	1.5	61.4	66.6	77.6	91.2	109.3	129.1	139.8
	Non-Hispanic White	497	96.4	1.1	67.7	72.5	81.0	91.4	107.0	125.0	140.6
51-70 y	Hispanic	506	88.5	1.0	63.4	68.4	77.1	84.7	97.0	112.8	127.4
	Non-Hispanic Asian	228	71.7	0.8	55.0	58.4	63.3	69.8	78.4	85.0	90.2
	Non-Hispanic Black	452	91.4	1.2	61.2	66.2	77.8	88.5	104.2	119.5	128.4
	Non-Hispanic White	544	92.9	0.9	64.8	70.4	78.1	91.0	104.0	120.9	130.4
>70 y	Hispanic	128	80.4	1.3	57.3	62.1	68.9	78.5	87.2	102.9	109.2
	Non-Hispanic Asian	50	66.5	1.5	46.8	49.5	59.4	64.1	73.5	79.2	88.5
	Non-Hispanic Black	131	80.2	1.7	53.9	57.1	65.9	77.3	92.4	103.6	109.8
	Non-Hispanic White	482	87.0	1.0	61.7	66.7	75.1	85.3	97.7	107.8	116.4
19y+	Hispanic	1340	87.6	0.6	61.6	66.0	74.6	84.7	98.0	111.3	122.2
	Non-Hispanic Asian	685	76.2	0.7	55.4	59.5	66.3	74.3	83.3	93.1	101.3
	Non-Hispanic Black	1135	90.5	0.8	59.4	63.6	73.6	86.1	103.3	123.5	133.1
	Non-Hispanic White	1806	92.1	0.7	62.7	68.1	77.0	89.6	103.1	120.0	131.8

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-65 Body Measurement Summary Statistics by Race/Ethnicity, Men 19 years of Age and Older: Height (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	299	172.1	0.5	159.7	163.1	167.9	172.2	176.9	180.5	182.9
	Non-Hispanic Asian	154	173.1	0.7	159.6	162.4	168.5	173.8	178.2	181.6	184.9
	Non-Hispanic Black	220	176.3	0.5	164.7	166.9	171.0	175.9	181.4	185.7	188.6
	Non-Hispanic White	283	177.3	0.5	167.0	168.3	172.8	177.2	181.5	185.7	187.5
31-50 y	Hispanic	407	170.4	0.6	158.4	160.6	165.1	170.0	175.5	179.3	183.5
	Non-Hispanic Asian	252	171.7	0.4	160.2	162.9	167.2	172.0	176.2	180.6	182.3
	Non-Hispanic Black	332	176.8	0.4	166.6	168.5	172.3	176.4	180.7	184.7	188.0
	Non-Hispanic White	500	178.4	0.4	167.5	169.8	173.7	178.6	181.9	187.0	189.2
51-70 y	Hispanic	507	169.5	0.5	157.2	159.6	164.6	169.2	174.9	178.7	181.4
	Non-Hispanic Asian	227	167.7	0.4	158.4	159.7	163.2	167.6	171.6	176.8	177.9
	Non-Hispanic Black	451	175.7	0.5	164.4	166.8	171.1	175.5	180.3	184.3	188.4
	Non-Hispanic White	545	176.1	0.4	164.5	167.6	171.0	176.0	180.9	184.8	187.7
>70 y	Hispanic	130	166.8	0.5	156.7	158.5	161.5	167.4	170.5	174.8	177.6
	Non-Hispanic Asian	50	164.7	1.3	150.0	154.0	160.1	164.8	168.7	174.0	176.4
	Non-Hispanic Black	130	172.0	0.7	160.4	162.5	167.9	171.5	177.0	180.1	182.3
	Non-Hispanic White	486	172.9	0.4	161.6	164.9	168.4	173.0	177.5	181.9	184.1
19y+	Hispanic	1343	170.5	0.3	158.2	160.8	165.6	170.4	175.5	179.8	182.8
	Non-Hispanic Asian	683	170.5	0.3	158.5	161.3	165.6	170.4	175.8	179.7	182.2
	Non-Hispanic Black	1133	176.0	0.3	164.6	167.2	171.3	175.9	180.5	184.8	188.1
	Non-Hispanic White	1814	176.7	0.2	165.5	167.7	171.8	176.7	181.3	185.4	187.8

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-66 Body Measurement Summary Statistics by Race/Ethnicity, Men 19 years of Age and Older: Waist Circumference (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	290	97.7	1.2	75.9	78.2	85.9	96.7	107.6	117.9	126.9
	Non-Hispanic Asian	148	88.3	1.0	71.4	72.9	80.9	87.4	95.6	101.6	105.0
	Non-Hispanic Black	215	89.9	1.7	70.0	71.5	76.4	83.5	98.1	117.7	127.9
	Non-Hispanic White	282	95.1	1.6	73.9	76.1	81.5	90.1	106.2	120.1	129.3
31-50 y	Hispanic	388	102.6	0.8	84.3	87.8	93.4	101.1	110.0	119.1	128.0
	Non-Hispanic Asian	240	95.8	0.7	80.7	82.5	88.4	94.9	101.3	108.9	117.7
	Non-Hispanic Black	318	101.3	1.2	74.1	77.6	87.9	99.0	113.3	124.2	134.4
	Non-Hispanic White	489	104.7	0.8	82.0	85.9	93.2	102.4	112.3	128.2	135.1
51-70 y	Hispanic	489	106.4	0.8	88.3	91.9	97.4	104.0	113.8	124.0	132.9
	Non-Hispanic Asian	220	93.4	0.6	77.9	82.9	87.2	93.4	98.6	105.5	108.3
	Non-Hispanic Black	438	104.3	1.0	79.5	84.3	94.8	102.9	112.7	124.6	132.6
	Non-Hispanic White	529	107.1	0.8	83.9	89.3	96.4	105.5	115.5	127.7	136.4
>70 y	Hispanic	119	105.2	0.9	85.7	88.9	96.6	103.9	113.7	121.3	128.7
	Non-Hispanic Asian	47	93.4	1.5	72.3	79.3	86.1	92.0	99.6	107.8	113.7
	Non-Hispanic Black	117	98.6	1.2	77.8	81.5	87.3	98.5	107.7	115.8	118.2
	Non-Hispanic White	445	108.0	0.7	87.7	91.4	99.3	107.2	115.9	124.6	130.4
19y+	Hispanic	1286	102.1	0.5	79.8	84.5	92.6	101.0	110.2	120.4	129.9
	Non-Hispanic Asian	655	93.1	0.4	75.2	80.1	85.7	92.5	99.0	106.6	111.4
	Non-Hispanic Black	1088	98.9	0.7	72.4	75.8	84.2	97.6	110.2	123.2	131.9
	Non-Hispanic White	1745	104.0	0.6	79.0	83.8	92.6	103.1	113.5	125.5	133.0

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-67 Body Measurement Summary Statistics by Race/Ethnicity, Men 19 years of Age and Older: Average Sagittal Abdominal Diameter (cm), NHANES 2015-2016

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	155	22.4	0.4	16.8	17.5	18.9	21.9	24.9	27.2	29.7
	Non-Hispanic Asian	85	19.2	0.4	15.8	16.0	17.3	18.9	20.2	22.7	24.1
	Non-Hispanic Black	113	21.1	0.4	16.5	17.0	18.0	19.9	22.6	26.9	30.0
	Non-Hispanic White	147	21.5	0.4	15.9	16.6	18.1	20.5	23.8	27.5	31.1
31-50 y	Hispanic	237	23.3	0.3	17.1	18.7	20.8	22.7	25.5	28.2	30.5
	Non-Hispanic Asian	117	21.3	0.3	16.4	17.7	19.1	21.0	23.1	25.5	27.0
	Non-Hispanic Black	166	24.3	0.5	17.1	18.0	20.6	23.6	26.8	31.0	33.2
	Non-Hispanic White	257	23.8	0.4	17.6	18.6	20.7	23.3	26.0	30.0	31.3
51-70 y	Hispanic	273	24.6	0.2	18.3	20.1	22.2	24.4	26.7	29.4	31.2
	Non-Hispanic Asian	86	20.8	0.2	16.4	16.9	19.2	20.6	22.0	24.3	25.7
	Non-Hispanic Black	197	24.6	0.3	18.8	19.8	21.6	24.2	26.7	29.9	31.4
	Non-Hispanic White	251	24.2	0.3	17.6	19.1	21.0	23.5	27.2	29.6	31.9
>70 y	Hispanic	67	23.6	0.5	18.9	19.3	20.8	23.2	25.5	28.6	29.2
	Non-Hispanic Asian	22	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	45	22.6	0.5	16.2	18.3	20.0	22.7	24.3	27.4	28.6
	Non-Hispanic White	201	24.8	0.3	19.4	20.1	22.4	24.7	27.1	29.3	30.9
19y+	Hispanic	732	23.4	0.3	17.3	18.2	20.7	22.9	25.7	28.5	30.6
	Non-Hispanic Asian	310	20.6	0.2	15.9	16.8	18.4	20.2	22.2	24.9	25.9
	Non-Hispanic Black	521	23.4	0.3	17.0	17.8	19.8	22.8	26.0	29.8	31.8
	Non-Hispanic White	856	23.6	0.2	17.1	18.1	20.5	23.0	26.0	29.6	31.5

* Sample size <30

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2016

TABLE Y-68 Body Measurement Summary Statistics by Race/Ethnicity, Men 19 years of Age and Older: Waist:Hip Ratio, NHANES 2017-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	135	0.93	0.01	0.82	0.83	0.88	0.92	0.97	1.02	1.05
	Non-Hispanic Asian	62	0.91	0.01	0.80	0.82	0.86	0.90	0.94	0.99	1.00
	Non-Hispanic Black	102	0.87	0.01	0.77	0.79	0.81	0.85	0.91	1.00	1.03
	Non-Hispanic White	134	0.91	0.01	0.82	0.83	0.86	0.90	0.96	1.01	1.04
31-50 y	Hispanic	150	0.99	0.01	0.88	0.91	0.93	0.99	1.02	1.06	1.10
	Non-Hispanic Asian	123	0.96	0.00	0.87	0.89	0.92	0.95	0.98	1.02	1.05
	Non-Hispanic Black	152	0.94	0.01	0.81	0.83	0.88	0.93	0.98	1.03	1.05
	Non-Hispanic White	227	0.97	0.00	0.85	0.88	0.92	0.96	1.01	1.05	1.07
51-70 y	Hispanic	212	1.01	0.00	0.93	0.94	0.97	1.00	1.04	1.08	1.10
	Non-Hispanic Asian	131	0.97	0.00	0.86	0.90	0.94	0.98	1.01	1.03	1.05
	Non-Hispanic Black	239	0.98	0.01	0.87	0.91	0.94	0.98	1.01	1.04	1.06
	Non-Hispanic White	272	1.01	0.01	0.90	0.92	0.96	1.01	1.06	1.09	1.10
>70 y	Hispanic	48	1.02	0.01	0.92	0.96	0.99	1.02	1.04	1.08	.
	Non-Hispanic Asian	25	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	71	0.96	0.01	0.87	0.88	0.92	0.96	1.00	1.04	1.06
	Non-Hispanic White	239	1.02	0.00	0.93	0.94	0.97	1.01	1.05	1.09	1.11
19y+	Hispanic	545	0.98	0.00	0.85	0.88	0.93	0.98	1.02	1.06	1.08
	Non-Hispanic Asian	341	0.95	0.00	0.84	0.86	0.91	0.95	0.99	1.02	1.05
	Non-Hispanic Black	564	0.94	0.00	0.80	0.82	0.86	0.94	0.99	1.03	1.05
	Non-Hispanic White	872	0.98	0.01	0.85	0.87	0.92	0.97	1.03	1.07	1.09

* Sample size <30

. Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2017-2018

TABLE Y-69 Body Measurement Summary Statistics by Race/Ethnicity, Women 19 years of Age and Older: Body Mass Index (kg/ m²), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	280	29.3	0.6	19.5	20.7	23.0	27.6	33.3	40.3	45.0
	Non-Hispanic Asian	127	24.7	0.6	18.1	19.3	20.6	22.8	27.3	33.7	34.4
	Non-Hispanic Black	224	30.0	0.6	19.0	19.9	22.7	28.6	34.4	42.2	44.8
	Non-Hispanic White	303	27.6	0.6	18.5	19.4	21.6	25.8	32.1	38.8	42.3
31-50 y	Hispanic	481	31.4	0.4	21.3	22.9	26.3	29.8	35.4	41.4	46.2
	Non-Hispanic Asian	275	25.2	0.3	19.1	20.1	21.6	24.3	28.4	31.8	34.1
	Non-Hispanic Black	402	33.7	0.5	21.2	22.9	26.8	32.3	38.9	44.7	51.0
	Non-Hispanic White	482	30.0	0.5	20.1	21.6	23.6	28.0	34.4	43.0	46.6
51-70 y	Hispanic	591	30.9	0.3	20.9	23.5	26.3	29.8	34.5	40.3	42.7
	Non-Hispanic Asian	236	25.1	0.3	19.0	20.0	21.6	24.2	27.7	31.0	33.1
	Non-Hispanic Black	458	33.1	0.4	21.3	23.6	27.3	31.7	37.2	45.6	49.4
	Non-Hispanic White	542	30.0	0.5	19.6	22.0	24.3	28.9	34.2	39.8	43.1
>70 y	Hispanic	150	30.1	0.5	22.0	23.4	25.5	28.9	33.5	37.1	40.0
	Non-Hispanic Asian	73	25.6	0.4	18.3	20.1	22.4	25.2	27.6	31.1	33.7
	Non-Hispanic Black	148	30.5	0.6	20.7	22.7	26.0	30.0	33.7	39.3	42.0
	Non-Hispanic White	428	28.9	0.3	20.4	21.5	24.6	28.2	32.0	36.5	39.8
19y+	Hispanic	1502	30.6	0.3	20.6	22.0	25.3	29.3	34.5	40.8	44.8
	Non-Hispanic Asian	711	25.1	0.2	19.0	19.8	21.3	24.2	27.9	31.8	34.2
	Non-Hispanic Black	1232	32.3	0.3	20.2	22.1	26.1	31.1	37.1	43.6	49.1
	Non-Hispanic White	1755	29.4	0.3	19.7	21.2	23.6	27.9	33.5	39.7	44.1

Note: Exclude pregnant and lactating women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-70 Body Measurement Summary Statistics by Race/Ethnicity, Women 19 years of Age and Older: Weight (kg), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	280	74.2	1.3	46.5	51.2	57.6	68.5	85.6	104.3	120.9
	Non-Hispanic Asian	127	62.1	1.5	44.2	47.9	52.0	57.9	69.6	83.5	88.3
	Non-Hispanic Black	224	80.2	1.5	49.8	53.2	61.2	74.9	93.2	111.9	122.8
	Non-Hispanic White	303	74.3	1.6	49.5	52.5	58.5	69.4	85.6	105.9	115.4
31-50 y	Hispanic	481	78.9	1.0	53.9	57.8	65.6	73.8	89.1	104.5	123.6
	Non-Hispanic Asian	275	62.2	0.9	46.4	48.4	52.9	59.5	70.3	78.9	84.4
	Non-Hispanic Black	404	90.2	1.4	56.9	60.6	71.5	86.9	105.0	124.5	134.1
	Non-Hispanic White	482	81.0	1.3	52.3	56.5	65.4	75.0	92.1	115.2	127.6
51-70 y	Hispanic	591	75.4	0.8	51.0	56.0	63.5	72.8	84.6	98.6	104.7
	Non-Hispanic Asian	236	60.4	0.6	46.3	47.4	52.1	58.9	66.4	75.6	83.1
	Non-Hispanic Black	458	86.5	1.0	55.0	60.9	69.9	83.5	96.6	119.1	132.3
	Non-Hispanic White	544	78.7	1.2	49.8	57.0	65.2	75.0	89.5	103.7	116.8
>70 y	Hispanic	150	71.0	1.2	49.7	55.7	60.0	68.2	79.7	89.0	97.0
	Non-Hispanic Asian	73	58.1	0.9	43.2	44.5	50.6	57.5	65.0	71.9	79.2
	Non-Hispanic Black	148	77.3	1.4	54.3	57.3	65.4	74.3	85.7	100.3	108.8
	Non-Hispanic White	428	71.9	1.0	49.2	52.2	59.6	69.7	81.1	93.5	102.6
19y+	Hispanic	1502	76.2	0.6	50.4	54.8	62.6	72.2	85.9	101.7	114.1
	Non-Hispanic Asian	711	61.2	0.4	45.7	47.7	52.2	58.8	68.5	79.2	84.6
	Non-Hispanic Black	1234	85.4	0.8	53.6	58.2	68.2	81.6	97.7	119.0	131.8
	Non-Hispanic White	1757	77.5	0.8	50.2	54.5	62.7	73.2	88.3	104.9	118.9

Note: Exclude pregnant and lactating women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-71 Body Measurement Summary Statistics by Race/Ethnicity, Women 19 years of Age and Older: Height (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	280	158.8	0.5	147.9	150.5	154.2	158.3	162.9	167.5	170.5
	Non-Hispanic Asian	127	158.7	0.7	149.2	151.4	154.5	158.2	161.8	166.9	170.0
	Non-Hispanic Black	224	163.4	0.5	152.1	155.3	158.9	163.1	167.4	170.6	173.6
	Non-Hispanic White	303	164.2	0.4	154.4	156.4	160.3	164.2	168.2	171.3	173.8
31-50 y	Hispanic	482	158.3	0.3	147.1	150.2	153.9	157.9	162.7	166.6	168.4
	Non-Hispanic Asian	275	157.0	0.4	147.5	149.7	153.3	157.3	160.7	163.9	165.6
	Non-Hispanic Black	402	163.5	0.3	152.6	154.9	159.4	163.4	167.9	171.6	173.5
	Non-Hispanic White	483	164.2	0.4	153.0	155.9	159.9	163.8	168.1	172.6	175.3
51-70 y	Hispanic	591	156.2	0.3	145.9	148.0	151.7	155.7	160.1	163.8	167.3
	Non-Hispanic Asian	236	155.3	0.6	144.7	146.7	150.7	155.2	159.3	163.1	165.2
	Non-Hispanic Black	458	161.6	0.2	150.6	153.4	157.5	161.6	165.5	168.8	172.1
	Non-Hispanic White	543	162.0	0.3	152.8	154.0	157.7	161.4	166.6	170.1	171.7
>70 y	Hispanic	150	153.6	0.4	144.0	147.4	150.1	153.6	157.2	160.3	162.4
	Non-Hispanic Asian	73	150.8	0.9	140.6	143.5	147.2	150.6	154.3	157.2	158.8
	Non-Hispanic Black	148	159.2	0.4	148.3	151.8	155.3	158.5	163.3	166.2	168.4
	Non-Hispanic White	430	157.5	0.3	145.6	149.5	153.5	157.0	162.0	165.3	167.9
19y+	Hispanic	1503	157.5	0.2	146.7	149.3	152.9	157.1	161.8	166.1	168.7
	Non-Hispanic Asian	711	156.2	0.4	146.4	148.5	152.1	156.1	160.2	164.2	166.3
	Non-Hispanic Black	1232	162.4	0.2	151.6	154.0	158.1	162.5	166.6	170.5	173.0
	Non-Hispanic White	1759	162.3	0.2	151.8	153.7	157.7	162.0	166.8	170.8	173.3

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-72 Body Measurement Summary Statistics by Race/Ethnicity, Women 19 years of Age and Older: Waist Circumference (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	267	93.6	1.3	70.2	73.0	80.2	90.2	103.4	115.7	127.8
	Non-Hispanic Asian	119	82.7	1.4	69.0	70.4	72.9	79.3	90.1	98.8	108.2
	Non-Hispanic Black	214	94.2	1.4	68.8	71.4	78.0	91.1	107.8	119.2	130.4
	Non-Hispanic White	291	91.2	1.4	69.6	71.8	76.6	87.9	102.3	119.2	125.2
31-50 y	Hispanic	460	99.8	1.0	75.6	81.1	88.2	98.3	108.6	121.7	132.5
	Non-Hispanic Asian	245	85.6	0.8	71.0	73.5	78.0	83.9	92.6	99.9	103.6
	Non-Hispanic Black	380	104.7	1.1	76.2	79.5	89.9	103.1	117.6	130.7	140.9
	Non-Hispanic White	466	98.5	1.1	73.8	78.4	84.7	95.0	108.8	123.2	134.2
51-70 y	Hispanic	572	101.1	0.7	78.5	83.0	90.4	100.5	109.3	121.1	126.4
	Non-Hispanic Asian	227	88.2	0.6	73.2	75.2	80.9	86.7	94.1	101.7	107.6
	Non-Hispanic Black	429	105.3	0.8	77.1	83.8	93.4	104.4	115.3	126.8	136.9
	Non-Hispanic White	527	100.8	1.1	75.0	80.0	88.4	98.7	112.6	123.1	129.7
>70 y	Hispanic	134	101.8	1.0	83.3	87.1	92.2	100.5	109.8	115.8	122.4
	Non-Hispanic Asian	64	90.0	0.9	76.0	78.8	82.0	89.5	96.3	100.6	109.1
	Non-Hispanic Black	125	102.7	1.5	78.4	85.3	94.7	101.6	111.4	120.4	125.9
	Non-Hispanic White	379	100.2	0.7	76.8	82.1	90.5	99.9	109.4	117.4	122.2
19y+	Hispanic	1433	98.6	0.5	74.3	78.9	86.7	97.4	108.1	119.7	128.2
	Non-Hispanic Asian	655	86.2	0.4	70.5	72.9	77.9	84.7	93.5	100.8	105.9
	Non-Hispanic Black	1148	102.3	0.7	73.7	77.7	88.5	101.3	114.3	127.1	136.4
	Non-Hispanic White	1663	98.5	0.7	73.1	77.2	85.3	96.4	109.3	121.7	129.6

Note: Exclude pregnant and lactating women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-73 Body Measurement Summary Statistics by Race/Ethnicity, Women 19 years of Age and Older: Average Sagittal Abdominal Diameter (cm), NHANES 2015-2016

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	155	20.7	0.4	14.8	15.8	17.7	19.8	23.1	26.5	28.3
	Non-Hispanic Asian	60	18.6	0.3	14.2	14.5	15.8	17.6	20.6	23.8	24.6
	Non-Hispanic Black	109	22.0	0.5	14.8	15.9	18.0	21.6	25.5	28.1	30.3
	Non-Hispanic White	151	19.7	0.3	14.3	15.1	16.5	19.1	22.0	25.8	27.2
31-50 y	Hispanic	269	22.9	0.2	16.3	17.7	19.9	22.4	25.2	29.0	30.5
	Non-Hispanic Asian	122	18.6	0.3	14.5	15.1	16.1	17.6	21.0	23.1	24.2
	Non-Hispanic Black	196	24.3	0.4	17.4	18.0	20.5	24.1	27.3	30.4	32.0
	Non-Hispanic White	232	21.5	0.2	15.4	16.4	17.7	20.6	24.6	28.6	29.9
51-70 y	Hispanic	322	23.6	0.3	16.9	18.3	20.5	23.2	26.5	28.9	31.0
	Non-Hispanic Asian	77	18.9	0.2	15.2	15.6	16.6	18.4	20.0	22.9	24.1
	Non-Hispanic Black	181	24.2	0.3	17.5	18.1	21.0	24.2	27.5	29.5	31.1
	Non-Hispanic White	254	23.2	0.5	16.4	17.3	19.9	23.0	25.9	29.0	31.0
>70 y	Hispanic	82	24.0	0.3	18.2	20.0	22.1	24.0	26.2	27.7	28.1
	Non-Hispanic Asian	24	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	53	24.8	0.5	19.1	20.2	22.2	24.8	26.5	28.4	29.6
	Non-Hispanic White	159	22.6	0.3	16.4	17.5	19.5	22.5	24.8	27.7	28.8
19y+	Hispanic	828	22.6	0.2	16.1	17.1	19.4	22.1	25.3	28.5	30.4
	Non-Hispanic Asian	283	18.8	0.2	14.6	15.2	16.2	18.2	21.0	23.5	24.5
	Non-Hispanic Black	539	23.7	0.3	16.6	17.8	20.1	23.7	26.8	29.6	31.2
	Non-Hispanic White	796	22.0	0.2	15.5	16.6	18.4	21.3	25.0	28.5	29.9

* Sample size <30

Note: Exclude pregnant and lactating women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2016

TABLE Y-74 Body Measurement Summary Statistics by Race/Ethnicity, Women 19 years of Age and Older: Waist:Hip Ratio, NHANES 2017-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
19-30 y	Hispanic	106	0.87	0.01	0.76	0.78	0.82	0.86	0.92	0.95	0.99
	Non-Hispanic Asian	60	0.85	0.01	0.74	0.77	0.81	0.85	0.89	0.92	0.94
	Non-Hispanic Black	101	0.86	0.01	0.75	0.76	0.79	0.83	0.91	0.97	1.00
	Non-Hispanic White	137	0.86	0.01	0.74	0.75	0.80	0.85	0.91	0.96	1.01
31-50 y	Hispanic	185	0.89	0.01	0.76	0.79	0.83	0.88	0.93	0.97	1.00
	Non-Hispanic Asian	123	0.87	0.01	0.77	0.79	0.82	0.86	0.90	0.93	0.97
	Non-Hispanic Black	181	0.89	0.01	0.78	0.80	0.83	0.88	0.93	0.98	0.99
	Non-Hispanic White	233	0.88	0.01	0.77	0.79	0.82	0.88	0.93	0.97	0.99
51-70 y	Hispanic	238	0.93	0.00	0.80	0.84	0.88	0.92	0.97	1.00	1.02
	Non-Hispanic Asian	149	0.91	0.01	0.78	0.81	0.87	0.91	0.95	0.99	1.00
	Non-Hispanic Black	244	0.92	0.01	0.81	0.84	0.87	0.92	0.96	1.00	1.01
	Non-Hispanic White	268	0.90	0.01	0.79	0.81	0.85	0.90	0.94	0.97	1.00
>70 y	Hispanic	49	0.94	0.01	0.83	0.85	0.91	0.94	0.97	0.99	1.01
	Non-Hispanic Asian	38	0.93	0.01	0.83	0.86	0.90	0.93	0.96	0.99	1.00
	Non-Hispanic Black	68	0.92	0.01	0.79	0.82	0.87	0.92	0.96	0.98	0.99
	Non-Hispanic White	210	0.93	0.00	0.82	0.83	0.89	0.93	0.97	1.00	1.02
19y+	Hispanic	578	0.90	0.00	0.78	0.80	0.84	0.89	0.94	0.98	1.01
	Non-Hispanic Asian	370	0.89	0.00	0.77	0.79	0.83	0.88	0.93	0.96	0.99
	Non-Hispanic Black	594	0.89	0.00	0.77	0.79	0.83	0.89	0.94	0.98	1.01
	Non-Hispanic White	848	0.89	0.00	0.77	0.80	0.83	0.89	0.94	0.98	1.00

Note: Exclude pregnant and lactating women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2017-2018

TABLE Y-75 Body Measurement Summary Statistics by Race/Ethnicity, Boys 18 Years of Age and Younger: Body Mass Index (kg/m²), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
2-3 y	Hispanic	99	17.3	0.2	14.6	14.9	15.9	16.9	18.2	19.6	21.2
	Non-Hispanic Asian	32	16.1	0.5	13.4	14.0	14.8	15.8	17.1	17.9	.
	Non-Hispanic Black	99	16.7	0.2	14.5	14.7	15.5	16.1	17.4	18.4	19.6
	Non-Hispanic White	119	16.7	0.2	14.5	15.0	15.7	16.3	17.1	18.2	19.5
4-8 y	Hispanic	253	17.7	0.2	14.0	14.7	15.5	16.7	19.4	22.1	24.2
	Non-Hispanic Asian	87	16.2	0.3	13.3	13.7	14.6	15.6	17.1	19.4	21.6
	Non-Hispanic Black	227	16.9	0.2	14.2	14.5	15.3	16.2	17.5	20.3	22.9
	Non-Hispanic White	290	16.8	0.2	13.8	14.5	15.2	16.1	17.8	20.0	22.0
9-13 y	Hispanic	268	21.3	0.5	15.4	15.8	17.3	20.3	24.3	28.5	30.6
	Non-Hispanic Asian	89	18.7	0.5	14.3	14.7	15.9	17.9	20.5	22.8	26.3
	Non-Hispanic Black	188	20.8	0.4	15.0	15.5	17.0	18.9	22.3	29.1	33.1
	Non-Hispanic White	261	20.3	0.4	14.7	15.3	16.7	18.7	23.2	26.8	29.7
14-18 y	Hispanic	207	26.0	0.6	17.9	18.6	20.9	24.2	30.2	35.2	40.2
	Non-Hispanic Asian	94	22.8	0.4	16.8	17.5	19.3	22.0	25.7	27.8	31.8
	Non-Hispanic Black	176	24.9	0.7	16.7	18.0	20.1	22.1	27.1	37.4	41.7
	Non-Hispanic White	225	22.8	0.4	16.5	17.6	19.5	21.7	25.2	29.1	32.5

. Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-76 Body Measurement Summary Statistics by Race/Ethnicity, Boys 18 Years of Age and Younger: Weight (kg), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
0-6 mo	Hispanic	63	6.7	0.2	4.5	4.8	5.4	6.6	7.8	8.5	9.1
	Non-Hispanic Asian	6	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	30	6.6	0.3	.	4.1	5.2	6.4	7.8	8.4	8.8
	Non-Hispanic White	76	6.6	0.2	4.1	4.3	5.3	6.8	7.7	8.4	9.1
7-11 mo	Hispanic	48	9.4	0.1	7.9	8.2	8.8	9.4	9.9	10.4	10.7
	Non-Hispanic Asian	2	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	24	*	*	*	*	*	*	*	*	*
	Non-Hispanic White	63	9.4	0.2	7.7	8.0	8.6	9.2	9.9	10.8	11.4
1-3 y	Hispanic	188	14.2	0.2	9.7	10.5	11.7	14.2	15.8	17.8	19.3
	Non-Hispanic Asian	51	13.8	0.4	9.9	10.4	11.4	13.6	15.7	17.4	18.2
	Non-Hispanic Black	148	14.3	0.4	9.8	10.4	11.8	14.3	16.1	17.4	18.7
	Non-Hispanic White	230	13.8	0.3	9.6	10.3	11.9	13.5	15.0	17.0	19.1
4-8 y	Hispanic	254	25.4	0.4	15.7	16.7	19.9	23.4	30.0	36.7	40.5
	Non-Hispanic Asian	87	23.0	0.7	15.7	16.8	18.3	21.3	25.0	31.7	37.2
	Non-Hispanic Black	227	25.7	0.6	16.7	17.9	20.4	24.1	29.1	35.1	39.5
	Non-Hispanic White	290	24.6	0.6	16.5	17.3	19.7	22.8	27.9	33.6	37.9
9-13 y	Hispanic	268	47.2	1.3	26.7	28.7	35.4	44.2	55.4	67.4	77.9
	Non-Hispanic Asian	90	40.5	1.3	25.6	27.2	32.2	37.9	48.7	52.8	59.5
	Non-Hispanic Black	188	48.4	1.4	26.9	30.4	34.9	44.7	58.8	70.5	79.9
	Non-Hispanic White	261	46.4	1.2	28.2	29.4	34.0	42.6	53.4	66.9	81.5
14-18 y	Hispanic	207	75.9	1.9	48.0	52.4	59.0	70.2	87.8	110.9	121.5
	Non-Hispanic Asian	94	68.1	1.4	46.3	50.3	57.2	65.4	76.0	90.4	95.0
	Non-Hispanic Black	176	74.8	2.4	47.9	51.6	58.8	66.2	81.3	113.8	128.5
	Non-Hispanic White	225	69.5	1.3	43.6	50.3	57.1	65.2	77.7	91.4	101.7

* Sample size <30

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-77 Body Measurement Summary Statistics by Race/Ethnicity, Boys 18 Years of Age and Younger: Height (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
0-6 mo	Hispanic	63	61.6	0.8	53.8	53.9	57.7	61.7	66.2	67.2	68.3
	Non-Hispanic Asian	6	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	30	60.8	1.1	51.4	52.4	57.2	60.4	65.0	67.9	68.4
	Non-Hispanic White	76	62.1	0.6	52.5	54.3	57.7	63.0	65.8	67.9	69.5
7-11 mo	Hispanic	48	71.7	0.4	67.2	68.5	69.9	71.9	72.8	75.4	75.9
	Non-Hispanic Asian	2	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	24	*	*	*	*	*	*	*	*	*
	Non-Hispanic White	63	72.2	0.4	67.3	68.4	70.0	71.8	74.5	75.8	76.8
12-23 mo	Hispanic	71	81.7	0.6	74.9	75.8	77.8	81.9	84.2	87.7	89.7
	Non-Hispanic Asian	17	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	48	81.4	0.8	73.1	75.7	77.6	80.9	84.8	87.4	89.3
	Non-Hispanic White	96	81.2	0.5	72.5	74.6	77.5	80.9	84.9	88.0	89.2
2-3 y	Hispanic	99	95.7	0.5	85.9	88.2	91.2	96.3	99.9	102.5	104.3
	Non-Hispanic Asian	33	96.9	0.7	86.2	89.4	94.4	97.3	99.0	103.5	103.8
	Non-Hispanic Black	99	96.2	0.8	85.3	87.4	91.4	96.8	100.7	103.1	104.8
	Non-Hispanic White	119	95.1	0.5	85.7	88.0	90.6	94.4	99.6	102.2	105.5
4-8 y	Hispanic	253	118.5	0.5	100.9	105.2	109.2	119.4	127.3	131.7	132.7
	Non-Hispanic Asian	87	118.2	1.3	103.2	105.0	108.7	117.6	126.7	130.6	133.7
	Non-Hispanic Black	227	122.0	0.9	105.0	108.0	112.8	121.4	130.4	136.5	139.7
	Non-Hispanic White	290	119.8	1.0	102.1	103.9	111.6	120.0	127.7	134.4	137.2
9-13 y	Hispanic	268	147.2	0.6	125.9	130.7	138.5	147.4	157.1	164.9	166.5
	Non-Hispanic Asian	89	146.6	1.5	130.6	132.2	137.4	145.7	153.4	165.7	169.2
	Non-Hispanic Black	188	151.2	1.0	131.8	135.4	141.8	150.4	160.3	168.5	170.6
	Non-Hispanic White	261	149.6	0.9	131.6	135.8	140.4	148.5	157.3	166.9	170.1
14-18 y	Hispanic	207	170.4	0.4	157.3	160.4	165.6	170.7	175.5	179.8	182.1
	Non-Hispanic Asian	94	172.3	0.7	161.6	163.7	167.1	172.1	176.2	182.5	185.5
	Non-Hispanic Black	176	172.7	0.5	157.2	162.9	168.0	172.1	177.6	182.4	186.6
	Non-Hispanic White	225	174.0	0.6	159.9	163.0	168.6	174.6	179.8	184.4	185.7

* Sample size <30

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-78 Body Measurement Summary Statistics by Race/Ethnicity, Boys 18 Years of Age and Younger: Waist Circumference (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
2-3 y	Hispanic	79	51.5	0.7	45.0	46.4	48.1	50.3	53.1	56.2	59.6
	Non-Hispanic Asian	25	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	89	49.1	0.6	42.8	44.3	46.1	48.1	50.7	53.3	55.1
	Non-Hispanic White	107	49.6	0.6	43.9	45.3	46.8	49.3	51.1	53.4	54.3
4-8 y	Hispanic	242	59.8	0.5	48.9	50.1	53.1	57.0	63.4	73.7	79.8
	Non-Hispanic Asian	75	55.7	1.0	48.1	48.7	50.8	53.1	58.0	68.0	74.3
	Non-Hispanic Black	214	56.4	0.6	48.0	48.9	51.5	54.3	59.0	67.0	72.7
	Non-Hispanic White	277	57.8	0.6	49.1	50.4	52.6	56.0	60.4	67.6	73.0
9-13 y	Hispanic	259	75.0	1.3	57.2	59.2	63.2	72.0	83.7	95.7	100.9
	Non-Hispanic Asian	85	67.9	1.3	54.3	55.8	59.4	65.9	74.3	82.1	87.7
	Non-Hispanic Black	184	70.5	1.1	54.5	55.9	59.7	66.5	78.7	92.9	101.5
	Non-Hispanic White	249	72.6	1.1	56.4	58.8	61.7	69.1	79.6	93.5	100.1
14-18 y	Hispanic	201	88.3	1.6	66.2	69.5	73.6	83.6	100.6	114.0	126.5
	Non-Hispanic Asian	90	80.8	1.2	64.2	66.0	70.8	78.6	89.5	97.8	103.4
	Non-Hispanic Black	173	81.9	1.7	65.1	66.4	69.4	74.3	86.3	111.8	123.3
	Non-Hispanic White	224	81.4	1.2	65.0	66.9	71.4	77.8	87.3	102.6	108.8

* Sample size <30

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-79 Body Measurement Summary Statistics by Race/Ethnicity, Boys 18 Years of Age and Younger: Average Sagittal Abdominal Diameter (cm), NHANES 2015-2016

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
8 y	Hispanic	33	14.5	0.4	.	11.4	12.3	13.4	16.5	18.9	19.4
	Non-Hispanic Asian	6	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	26	*	*	*	*	*	*	*	*	*
	Non-Hispanic White	33	13.8	0.3	11.1	11.7	12.5	13.3	14.5	16.5	17.3
9-13 y	Hispanic	142	16.9	0.5	12.8	13.0	14.0	16.0	19.2	22.0	23.3
	Non-Hispanic Asian	49	14.7	0.4	11.7	12.3	12.7	14.4	15.8	17.3	18.8
	Non-Hispanic Black	100	16.1	0.5	12.7	13.0	13.8	14.9	17.4	20.7	23.4
	Non-Hispanic White	135	16.1	0.2	12.6	13.0	13.9	15.3	17.6	20.1	21.3
14-18 y	Hispanic	126	20.0	0.4	14.6	15.7	16.8	18.5	22.8	27.8	29.6
	Non-Hispanic Asian	43	17.1	0.3	13.5	14.6	15.6	16.6	18.1	19.4	20.7
	Non-Hispanic Black	97	19.0	0.6	15.0	15.2	16.0	17.4	20.3	26.3	27.6
	Non-Hispanic White	109	17.8	0.4	13.8	14.5	15.6	16.9	18.8	22.5	24.2

* Sample size <30

. Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2016

TABLE Y-80 Body Measurement Summary Statistics by Race/Ethnicity, Boys 18 Years of Age and Younger: Waist:Hip Ratio, NHANES 2017-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
12-13 y	Hispanic	39	0.89	0.01	0.77	0.79	0.83	0.87	0.95	0.99	1.01
	Non-Hispanic Asian	18	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	28	*	*	*	*	*	*	*	*	*
	Non-Hispanic White	43	0.88	0.01	.	0.79	0.82	0.85	0.91	0.99	1.00
14-18 y	Hispanic	76	0.87	0.01	0.78	0.79	0.81	0.85	0.93	0.97	1.02
	Non-Hispanic Asian	47	0.87	0.01	0.78	0.79	0.81	0.86	0.91	0.95	0.97
	Non-Hispanic Black	76	0.83	0.01	0.75	0.76	0.78	0.80	0.87	0.94	0.99
	Non-Hispanic White	114	0.86	0.01	0.77	0.78	0.80	0.84	0.88	0.96	0.99

* Sample size <30

. Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2017-2018

TABLE Y-81 Body Measurement Summary Statistics by Race/Ethnicity, Girls 18 Years of Age and Younger: Body Mass Index (kg/m²), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
2-3 y	Hispanic	96	16.4	0.1	14.2	14.6	15.5	16.2	17.5	18.0	18.8
	Non-Hispanic Asian	27	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	82	16.3	0.2	14.1	14.7	15.2	16.0	17.0	18.3	19.0
	Non-Hispanic White	138	16.2	0.1	14.2	14.7	15.4	16.1	16.9	17.9	18.4
4-8 y	Hispanic	305	17.9	0.2	13.8	14.3	15.4	16.7	19.5	23.0	24.9
	Non-Hispanic Asian	79	15.7	0.2	13.1	13.6	14.2	15.2	16.6	17.8	19.3
	Non-Hispanic Black	211	17.7	0.3	14.0	14.3	15.4	16.7	18.3	22.0	24.4
	Non-Hispanic White	249	16.6	0.2	13.8	14.3	15.0	16.0	17.4	19.6	21.2
9-13 y	Hispanic	287	21.5	0.3	15.3	15.9	17.6	20.2	24.4	28.3	31.4
	Non-Hispanic Asian	78	18.9	0.5	14.2	14.7	16.0	17.5	20.2	25.1	27.4
	Non-Hispanic Black	211	22.4	0.5	15.0	15.9	17.3	21.7	26.2	30.4	32.6
	Non-Hispanic White	250	20.2	0.3	15.1	15.8	17.0	19.0	22.8	26.3	28.5
14-18 y	Hispanic	234	25.9	0.4	18.2	19.4	21.5	24.6	29.1	32.9	38.4
	Non-Hispanic Asian	80	22.4	0.4	17.1	18.2	19.7	20.9	24.0	28.7	31.2
	Non-Hispanic Black	170	27.1	0.8	18.3	19.3	21.4	24.4	31.2	38.1	42.6
	Non-Hispanic White	214	24.2	0.4	17.6	18.4	20.2	22.7	26.7	31.5	35.0

* Sample size <30

Note: Exclude pregnant and lactating adolescents

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-82 Body Measurement Summary Statistics by Race/Ethnicity, Girls 18 Years of Age and Younger: Weight (kg), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
0-6 mo	Hispanic	70	6.2	0.1	4.1	4.3	5.2	6.0	7.2	7.9	8.1
	Non-Hispanic Asian	7	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	35	6.0	0.2	3.7	4.0	5.1	6.1	6.8	7.5	7.7
	Non-Hispanic White	65	6.1	0.2	4.2	4.4	5.0	5.9	7.2	7.9	8.0
7-12 mo	Hispanic	52	8.7	0.1	7.0	7.1	7.9	8.4	9.7	10.4	10.6
	Non-Hispanic Asian	3	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	24	*	*	*	*	*	*	*	*	*
	Non-Hispanic White	50	8.8	0.2	6.6	7.3	7.9	8.8	9.5	10.2	10.5
1-3 y	Hispanic	177	13.4	0.2	9.7	10.2	11.1	13.1	14.8	17.1	18.1
	Non-Hispanic Asian	46	13.1	0.3	9.7	10.4	11.4	12.5	14.5	15.9	17.9
	Non-Hispanic Black	143	13.3	0.3	9.1	9.7	10.8	13.0	14.7	17.6	18.5
	Non-Hispanic White	221	13.2	0.2	9.4	9.9	11.2	13.1	14.6	16.3	17.3
4-8 y	Hispanic	305	25.2	0.5	15.3	16.3	18.7	23.3	29.3	38.9	42.7
	Non-Hispanic Asian	79	21.6	0.8	16.0	16.6	17.2	19.5	23.9	28.0	36.2
	Non-Hispanic Black	211	26.5	0.8	15.6	16.7	19.9	23.6	29.9	39.2	44.0
	Non-Hispanic White	249	23.1	0.4	15.7	16.9	18.9	21.8	25.6	30.3	35.2
9-13 y	Hispanic	287	47.3	0.9	27.9	30.1	35.3	44.4	55.6	68.7	76.3
	Non-Hispanic Asian	78	42.1	1.3	25.3	26.9	31.7	40.1	48.8	60.2	62.3
	Non-Hispanic Black	212	52.5	1.5	27.5	29.2	37.7	51.7	64.3	75.6	83.6
	Non-Hispanic White	250	45.3	0.9	27.2	29.9	34.3	43.0	53.3	64.6	69.0
14-18 y	Hispanic	234	65.8	1.2	44.9	47.7	54.3	62.6	73.5	86.3	99.0
	Non-Hispanic Asian	80	56.9	1.1	43.6	44.4	49.4	54.7	62.9	74.1	79.8
	Non-Hispanic Black	170	71.4	2.1	47.8	49.8	55.6	64.1	82.0	105.5	112.5
	Non-Hispanic White	214	64.6	1.2	45.5	47.4	53.0	61.1	72.3	85.5	93.0

* Sample size <30

Note: Exclude pregnant and lactating adolescents

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-83 Body Measurement Summary Statistics by Race/Ethnicity, Girls 18 Years of Age and Younger: Height (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
0-6 mo	Hispanic	70	60.6	0.5	53.7	54.4	56.2	60.8	64.2	66.3	67.2
	Non-Hispanic Asian	7	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	35	59.9	0.8	49.7	52.8	55.9	60.0	63.3	66.5	66.8
	Non-Hispanic White	65	60.4	0.6	52.6	53.7	56.0	59.4	65.1	67.1	67.7
7-11 mo	Hispanic	52	69.9	0.3	66.8	67.0	68.1	69.8	71.5	72.4	73.3
	Non-Hispanic Asian	3	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	24	*	*	*	*	*	*	*	*	*
	Non-Hispanic White	50	70.7	0.5	65.6	66.2	68.4	70.7	72.8	75.5	.
12-23 mo	Hispanic	69	80.9	0.7	72.0	75.0	77.5	81.3	83.8	86.6	88.1
	Non-Hispanic Asian	15	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	57	80.2	0.5	70.9	73.6	77.3	80.0	84.2	86.8	87.2
	Non-Hispanic White	69	80.1	0.7	74.0	75.1	76.6	79.6	82.8	85.3	86.7
2-3 y	Hispanic	96	94.1	0.8	85.2	86.3	89.4	93.9	97.6	101.4	103.9
	Non-Hispanic Asian	27	94.3	1.0	85.7	87.4	88.9	94.0	97.8	101.7	.
	Non-Hispanic Black	83	94.7	1.0	83.5	85.1	89.8	94.3	100.2	103.8	106.7
	Non-Hispanic White	138	93.4	0.6	84.7	85.8	89.5	93.6	96.8	99.3	102.4
4-8 y	Hispanic	306	117.3	0.7	99.6	102.8	108.7	116.8	125.7	131.9	134.1
	Non-Hispanic Asian	79	116.5	1.6	100.5	103.7	106.7	117.1	123.4	128.9	133.8
	Non-Hispanic Black	211	120.6	0.9	101.3	104.4	111.1	119.8	128.5	138.2	142.6
	Non-Hispanic White	249	117.0	0.6	101.8	103.4	109.3	117.4	123.9	129.6	131.6
9-13 y	Hispanic	287	147.0	0.5	129.8	133.2	139.6	146.5	154.6	160.4	164.1
	Non-Hispanic Asian	78	148.1	1.2	127.8	131.3	140.2	150.5	156.3	160.3	161.1
	Non-Hispanic Black	211	151.4	0.8	132.4	135.9	143.2	152.8	159.8	163.1	164.7
	Non-Hispanic White	250	148.7	0.9	130.6	134.1	140.5	149.7	156.7	161.5	164.3
14-18 y	Hispanic	234	159.0	0.4	148.7	151.1	155.8	159.3	162.8	165.8	167.9
	Non-Hispanic Asian	80	159.3	0.9	148.7	150.8	154.3	159.2	163.2	166.4	169.2
	Non-Hispanic Black	170	162.2	0.6	151.4	154.3	157.3	161.3	166.5	171.5	174.8
	Non-Hispanic White	214	163.4	0.6	152.6	155.5	158.5	163.5	167.7	171.8	173.2

* Sample size <30

. Percentile not calculated using SUDAAN due to small sample size

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-84 Body Measurement Summary Statistics by Race/Ethnicity, Girls 18 Years of Age and Younger: Waist Circumference (cm), NHANES 2015-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
2-3 y	Hispanic	88	49.8	0.5	43.0	44.2	46.8	49.7	52.3	54.1	56.0
	Non-Hispanic Asian	24	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	69	48.6	0.4	43.4	44.3	45.2	47.8	50.7	54.0	55.2
	Non-Hispanic White	117	49.2	0.3	43.7	45.2	47.1	49.5	51.1	53.2	54.2
4-8 y	Hispanic	290	60.1	0.7	48.0	49.3	52.3	57.1	65.6	75.7	81.1
	Non-Hispanic Asian	71	54.8	0.9	47.1	47.8	49.8	53.3	56.5	63.5	66.5
	Non-Hispanic Black	205	58.3	0.8	46.6	49.0	52.0	55.1	62.5	71.5	78.6
	Non-Hispanic White	235	56.9	0.6	48.8	49.9	52.5	55.0	59.6	64.9	72.7
9-13 y	Hispanic	278	74.2	0.8	57.0	59.4	64.1	71.7	81.2	91.9	97.3
	Non-Hispanic Asian	73	67.8	1.3	54.2	57.0	59.9	65.1	72.2	81.5	90.5
	Non-Hispanic Black	207	74.7	1.3	54.8	56.9	61.6	72.7	83.4	97.7	103.0
	Non-Hispanic White	236	71.7	0.6	56.7	59.0	63.0	69.6	79.2	86.3	92.6
14-18 y	Hispanic	227	85.1	1.0	68.4	70.1	75.1	81.2	91.8	101.9	114.3
	Non-Hispanic Asian	71	76.7	1.2	66.0	67.0	69.8	74.9	79.3	88.9	94.5
	Non-Hispanic Black	168	85.6	1.6	66.4	68.1	71.9	80.7	93.5	112.8	120.1
	Non-Hispanic White	206	81.3	1.0	66.3	68.1	72.6	77.7	87.3	98.0	104.0

* Sample size <30

Note: Exclude pregnant and lactating adolescents

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-85 Body Measurement Summary Statistics by Race/Ethnicity, Girls 18 Years of Age and Younger: Average Sagittal Abdominal Diameter (cm), NHANES 2015-2016

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
8 y	Hispanic	43	14.6	0.3	11.4	11.9	12.5	14.3	16.1	17.6	17.8
	Non-Hispanic Asian	4	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	23	*	*	*	*	*	*	*	*	*
	Non-Hispanic White	25	*	*	*	*	*	*	*	*	*
9-13 y	Hispanic	169	16.6	0.2	12.3	13.4	14.7	16.2	18.4	20.7	21.9
	Non-Hispanic Asian	39	15.8	0.4	12.2	12.9	13.2	15.1	17.2	19.4	20.7
	Non-Hispanic Black	99	17.4	0.6	12.3	12.9	14.3	17.3	19.3	22.4	23.9
	Non-Hispanic White	117	15.7	0.2	12.0	12.8	13.6	15.2	17.3	19.7	20.6
14-18 y	Hispanic	132	19.0	0.4	14.5	14.9	16.2	18.2	20.6	23.6	25.8
	Non-Hispanic Asian	31	16.7	0.4	13.6	14.1	14.5	16.5	17.6	19.9	20.1
	Non-Hispanic Black	85	19.4	0.5	14.6	15.2	16.7	18.5	21.0	25.1	27.0
	Non-Hispanic White	110	18.0	0.3	13.9	14.7	15.6	17.2	19.3	22.3	24.2

* Sample size <30

Note: Exclude pregnant and lactating adolescents

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2016

TABLE Y-86 Body Measurement Summary Statistics by Race/Ethnicity, Girls 18 Years of Age and Younger: Waist:Hip Ratio, NHANES 2017-2018

Age	Race-Hispanic origin	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
12-13 y	Hispanic	35	0.84	0.01	0.76	0.76	0.78	0.83	0.86	0.90	0.91
	Non-Hispanic Asian	11	*	*	*	*	*	*	*	*	*
	Non-Hispanic Black	32	0.83	0.01	0.73	0.74	0.78	0.80	0.90	0.92	0.93
	Non-Hispanic White	41	0.84	0.01	.	0.75	0.79	0.83	0.85	0.92	0.97
14-18 y	Hispanic	94	0.85	0.00	0.76	0.77	0.80	0.83	0.88	0.93	0.95
	Non-Hispanic Asian	40	0.82	0.01	.	0.71	0.78	0.81	0.84	0.90	.
	Non-Hispanic Black	82	0.83	0.01	0.72	0.73	0.76	0.81	0.88	0.93	0.95
	Non-Hispanic White	96	0.82	0.01	0.73	0.76	0.78	0.81	0.84	0.88	0.92

* Sample size <30

. Percentile not calculated using SUDAAN due to small sample size

Note: Exclude pregnant and lactating adolescents

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2017-2018

TABLE Y-87 Body Composition^a Summary Statistics, Boys and Men 8-59 years of age with normal weight^b, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	106	6.8	0.2	4.5	4.9	5.2	6.6	7.7	9.3	9.6
	9-13 y	436	9.3	0.2	5.5	6.2	7.2	8.8	10.6	13.9	15.2
	14-18 y	364	12.0	0.2	8.0	8.4	9.5	11.4	14.0	16.4	17.8
	19-30 y	312	14.0	0.3	8.8	9.4	11.1	13.5	16.5	19.5	20.5
	31-50 y	261	16.0	0.5	9.1	10.6	13.1	16.3	19.0	20.8	21.4
	51-59 y	131	16.3	0.7	10.8	11.4	12.2	16.1	19.2	22.1	23.2
	19-59 y	704	15.1	0.3	9.0	10.0	11.7	14.9	18.0	20.7	21.8
Percent body fat (%)	8 y	106	24.2	0.5	18.4	19.0	20.8	23.7	27.1	29.6	31.0
	9-13 y	436	24.0	0.3	16.3	18.0	20.2	23.5	27.0	31.3	33.7
	14-18 y	364	19.4	0.3	14.3	14.8	16.2	18.4	21.6	25.1	27.8
	19-30 y	312	20.4	0.3	13.6	14.9	16.7	19.9	23.1	27.0	28.1
	31-50 y	261	22.5	0.4	14.9	15.9	19.4	22.9	25.1	27.4	28.8
	51-59 y	131	23.0	0.8	15.6	16.0	19.2	23.0	26.3	29.7	31.4
	19-59 y	704	21.6	0.3	14.5	15.6	18.0	21.2	24.8	27.6	29.6
Lean Mass Index (kg/m ²)	8 y	106	12.1	0.1	10.8	10.9	11.4	12.1	12.7	13.3	13.4
	9-13 y	436	13.4	0.1	11.4	11.6	12.1	13.2	14.3	15.7	16.4
	14-18 y	364	16.8	0.1	14.2	14.7	15.7	16.9	17.7	19.0	19.5
	19-30 y	312	17.8	0.2	15.4	15.7	16.7	17.8	18.7	19.5	20.1
	31-50 y	261	17.8	0.1	15.4	16.2	17.0	17.8	18.6	19.1	19.5
	51-59 y	131	17.7	0.2	15.8	16.3	17.0	17.6	18.6	19.0	19.2
	19-59 y	704	17.8	0.1	15.5	15.9	16.9	17.8	18.6	19.3	19.8
Fat Mass Index (kg/m ²)	19-30 y	312	4.6	0.1	2.8	3.0	3.6	4.5	5.3	6.4	6.7
	31-50 y	261	5.2	0.1	3.0	3.6	4.4	5.2	6.1	6.6	7.0
	51-59 y	131	5.3	0.2	3.5	3.6	4.1	5.3	6.1	7.2	7.6
	19-59 y	704	4.9	0.1	2.9	3.3	3.8	4.7	5.8	6.6	7.1
Visceral Adipose Tissue Mass (g)	8 y	110	162.9	4.0	120.2	126.8	138.1	156.8	179.5	211.8	222.3
	9-13 y	446	176.9	2.2	131.1	135.4	151.4	173.1	192.8	221.7	234.4
	14-18 y	394	198.4	2.6	145.6	155.6	174.0	193.2	215.7	255.6	266.8
	19-30 y	349	238.5	4.4	165.9	179.6	197.3	224.3	255.7	318.4	376.3
	31-50 y	294	331.6	10.8	175.7	202.2	242.6	304.6	406.6	508.2	540.2
	51-59 y	149	445.0	25.3	230.2	252.4	294.0	414.3	558.8	686.3	756.9
	19-59 y	792	310.0	8.3	172.0	185.7	217.8	259.1	363.2	509.8	584.3

^aDual-energy x-ray absorptiometry (DXA) data^bBody Mass Index (BMI) \geq 18.5 and $<$ 25 kg/m² (adults), BMI 5th percentile to $<$ 85th percentile (children)Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-88 Body Composition^a Summary Statistics, Girls and Women 8-59 years of age with normal weight^b, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	73	7.7	0.2	4.9	5.5	6.7	7.6	8.6	9.8	10.5
	9-13 y	420	11.3	0.2	6.7	7.4	8.8	10.6	13.5	15.7	17.8
	14-18 y	333	17.7	0.2	11.5	12.7	15.0	17.2	20.5	22.4	24.2
	19-30 y	287	18.0	0.3	12.2	13.0	15.2	17.8	20.2	23.3	24.5
	31-50 y	345	19.8	0.3	13.3	14.5	16.8	19.6	22.8	25.1	26.0
	51-59 y	154	20.8	0.6	13.4	14.8	17.5	20.8	24.2	26.3	27.3
	19-59 y	786	19.4	0.2	12.8	14.0	16.2	19.4	22.3	25.0	26.3
Percent body fat (%)	8 y	73	28.8	0.6	20.2	22.2	26.2	28.3	31.2	33.7	35.4
	9-13 y	420	28.9	0.3	21.0	23.0	25.7	28.4	32.2	35.1	36.9
	14-18 y	333	31.4	0.3	23.6	25.4	27.8	31.6	34.2	37.3	38.7
	19-30 y	287	30.9	0.5	23.1	24.4	27.1	30.8	34.6	37.7	38.5
	31-50 y	345	32.7	0.4	23.8	26.0	29.0	33.2	36.5	39.0	40.2
	51-59 y	154	34.9	0.6	26.4	28.2	31.7	35.0	38.5	40.9	42.1
	19-59 y	786	32.6	0.3	23.7	25.8	28.9	32.8	36.4	38.9	40.6
Lean Mass Index (kg/m ²)	8 y	73	11.5	0.1	10.2	10.3	10.7	11.5	12.1	12.5	13.0
	9-13 y	420	12.7	0.1	10.9	11.2	11.7	12.5	13.4	14.5	15.2
	14-18 y	333	14.6	0.1	12.6	12.8	13.6	14.6	15.4	16.2	16.7
	19-30 y	287	15.0	0.1	13.0	13.6	14.1	14.9	15.8	16.4	16.7
	31-50 y	345	15.1	0.1	13.3	13.6	14.3	15.0	15.8	16.8	17.0
	51-59 y	154	14.6	0.2	12.7	13.1	13.6	14.4	15.2	15.9	17.0
	19-59 y	786	15.0	0.1	13.1	13.4	14.1	14.8	15.7	16.6	16.9
Fat Mass Index (kg/m ²)	19-30 y	287	6.8	0.1	4.6	4.9	5.6	6.6	7.8	8.7	9.1
	31-50 y	345	7.4	0.1	5.1	5.5	6.3	7.4	8.5	9.3	9.6
	51-59 y	154	7.9	0.2	5.3	5.9	6.7	8.0	8.9	9.7	10.0
	19-59 y	786	7.3	0.1	4.8	5.3	6.1	7.3	8.4	9.3	9.7
Visceral Adipose Tissue Mass (g)	8 y	83	75.4	2.9	29.2	38.1	57.1	74.5	85.6	113.1	131.2
	9-13 y	447	107.6	3.8	27.9	48.4	73.3	102.4	128.2	176.9	204.5
	14-18 y	351	150.1	4.2	65.1	77.9	102.2	140.3	179.6	242.7	287.5
	19-30 y	313	169.3	4.8	81.2	90.5	109.0	143.8	213.7	269.0	321.4
	31-50 y	377	258.2	8.6	102.8	122.1	172.2	242.0	323.6	402.7	460.2
	51-59 y	173	320.0	20.8	115.6	132.4	177.3	291.0	415.7	541.5	604.7
	19-59 y	863	241.2	7.2	90.3	103.4	142.1	213.7	307.9	410.8	503.8

^aDual-energy x-ray absorptiometry (DXA) data

^bBody Mass Index (BMI) ≥ 18.5 and < 25 kg/m², (adults), BMI 5th percentile to <85th percentile (children)

Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²; Exclude pregnant and lactating adolescents and women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-89 Body Composition^a Summary Statistics, Boys and Men 8-59 years of age with overweight^b, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	25	*	*	*	*	*	*	*	*	*
	9-13 y	113	16.2	0.4	11.0	11.4	12.9	15.4	18.0	22.4	23.1
	14-18 y	101	21.1	0.7	13.1	14.8	17.8	20.7	24.7	27.7	28.7
	19-30 y	229	21.5	0.4	13.5	15.6	18.0	21.4	24.6	27.7	28.4
	31-50 y	452	22.6	0.3	15.7	17.4	19.7	22.2	25.6	28.5	30.1
	51-59 y	225	23.4	0.4	17.2	17.9	19.9	24.1	25.6	28.9	29.7
	19-59 y	906	22.5	0.2	15.6	17.1	19.5	22.2	25.4	28.3	29.7
Percent body fat (%)	8 y	25	*	*	*	*	*	*	*	*	*
	9-13 y	113	33.2	0.4	23.6	25.6	30.2	33.4	36.5	39.6	40.3
	14-18 y	101	27.1	0.7	18.2	19.7	23.3	27.8	30.9	32.7	34.5
	19-30 y	229	25.7	0.5	16.8	19.4	22.1	25.6	29.3	32.1	33.3
	31-50 y	452	26.6	0.3	19.8	21.6	24.2	26.5	29.3	31.6	32.7
	51-59 y	225	27.8	0.4	22.3	23.2	25.0	27.9	30.3	31.5	33.1
	19-59 y	906	26.7	0.2	19.3	21.2	24.1	26.6	29.6	31.8	33.1
Lean Mass Index (kg/m ²)	8 y	25	*	*	*	*	*	*	*	*	*
	9-13 y	113	14.7	0.1	12.8	13.0	13.7	14.4	15.5	16.7	17.2
	14-18 y	101	18.8	0.2	16.7	16.9	17.6	18.6	19.8	20.7	21.3
	19-30 y	229	20.3	0.2	17.8	18.3	19.2	20.2	21.2	22.0	22.4
	31-50 y	452	20.3	0.1	18.1	18.7	19.3	20.2	21.0	21.8	22.5
	51-59 y	225	20.0	0.2	17.6	18.0	19.2	20.1	20.6	21.7	22.1
	19-59 y	906	20.2	0.1	17.8	18.4	19.2	20.2	21.0	21.9	22.3
Fat Mass Index (kg/m ²)	19-30 y	229	7.0	0.1	4.5	5.0	5.9	6.9	8.1	8.9	9.6
	31-50 y	452	7.4	0.1	5.2	5.8	6.5	7.3	8.2	8.9	9.2
	51-59 y	225	7.7	0.1	5.8	6.2	6.9	7.7	8.5	8.9	9.6
	19-59 y	906	7.4	0.1	5.1	5.7	6.4	7.3	8.3	8.9	9.3
Visceral Adipose Tissue Mass (g)	8 y	26	*	*	*	*	*	*	*	*	*
	9-13 y	119	259.3	7.6	172.1	194.7	211.8	241.5	297.5	336.8	359.3
	14-18 y	112	261.9	9.3	168.2	180.1	217.6	248.8	296.6	371.7	390.1
	19-30 y	254	347.0	9.9	196.7	215.8	255.1	317.8	421.6	506.8	556.7
	31-50 y	521	514.1	13.4	263.0	309.0	379.4	487.5	611.2	748.8	842.2
	51-59 y	260	670.9	20.1	419.7	453.0	515.3	651.4	794.7	912.3	992.2
	19-59 y	1035	509.3	11.5	229.6	264.9	358.4	477.5	620.7	794.7	896.8

^aDual-energy x-ray absorptiometry (DXA) data

^bBody Mass Index (BMI) ≥ 25 and < 29.9 kg/m² (adults), BMI 85th percentile to <95th percentile (children)

* Sample size <30

Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-90 Body Composition^a Summary Statistics, Girls and Women 8-59 years of age with Overweight^b, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	28	*	*	*	*	*	*	*	*	*
	9-13 y	118	18.8	0.5	12.6	13.5	15.5	19.2	21.2	24.2	25.2
	14-18 y	126	26.8	0.6	20.2	20.8	23.2	26.5	30.3	32.1	34.2
	19-30 y	178	27.4	0.4	20.4	21.4	24.4	27.6	30.4	32.9	34.8
	31-50 y	326	28.2	0.3	22.3	23.4	25.3	28.1	30.6	33.1	34.2
	51-59 y	182	29.1	0.3	22.9	24.0	26.1	29.0	32.1	34.5	35.3
	19-59 y	686	28.2	0.2	21.6	23.0	25.3	28.1	30.7	33.6	34.9
Percent body fat (%)	8 y	28	*	*	*	*	*	*	*	*	*
	9-13 y	118	36.0	0.4	29.2	30.6	33.6	36.1	38.5	40.1	42.3
	14-18 y	126	37.8	0.5	31.7	32.5	34.8	37.8	40.8	42.5	44.2
	19-30 y	178	37.9	0.3	30.9	31.9	35.4	38.3	40.5	42.4	43.6
	31-50 y	326	38.8	0.2	32.3	34.7	36.6	39.4	40.8	42.5	43.8
	51-59 y	182	40.5	0.3	34.3	36.2	38.0	41.2	42.8	45.2	45.4
	19-59 y	686	39.0	0.2	31.8	34.3	36.7	39.4	41.5	43.3	44.9
Lean Mass Index (kg/m ²)	8 y	28	*	*	*	*	*	*	*	*	*
	9-13 y	118	14.7	0.1	12.7	13.2	13.6	14.7	15.5	16.2	17.2
	14-18 y	126	16.6	0.1	14.6	15.3	15.8	16.4	17.4	18.2	18.7
	19-30 y	178	17.0	0.1	15.0	15.3	16.3	16.8	17.4	18.4	18.8
	31-50 y	326	16.9	0.1	15.0	15.5	16.1	16.9	17.5	18.2	18.5
	51-59 y	182	16.5	0.1	14.7	15.3	15.8	16.5	17.1	17.5	18.0
	19-59 y	686	16.8	0.0	15.0	15.3	16.1	16.7	17.4	18.1	18.6
Fat Mass Index (kg/m ²)	19-30 y	178	10.4	0.1	7.9	8.3	9.5	10.4	11.2	12.1	12.5
	31-50 y	326	10.7	0.1	8.6	9.1	9.8	10.7	11.6	12.2	12.5
	51-59 y	182	11.3	0.1	9.2	9.5	10.4	11.2	12.1	12.8	13.1
	19-59 y	686	10.8	0.1	8.3	9.0	9.9	10.8	11.6	12.4	12.8
Visceral Adipose Tissue Mass (g)	8 y	29	*	*	*	*	*	*	*	*	*
	9-13 y	140	210.1	9.6	85.3	114.4	157.8	197.9	244.8	309.1	357.4
	14-18 y	130	274.1	12.1	132.3	152.0	200.2	256.2	348.1	417.3	455.4
	19-30 y	192	326.5	9.9	149.1	186.1	235.4	328.2	393.0	459.3	540.7
	31-50 y	369	434.5	10.6	179.6	246.1	317.1	423.8	545.4	655.1	726.9
	51-59 y	205	570.2	16.5	281.5	352.2	466.6	571.9	674.1	780.0	813.8
	19-59 y	766	444.5	9.8	183.1	227.5	315.7	420.4	566.2	692.9	766.9

^aDual-energy x-ray absorptiometry (DXA) data

^bBody Mass Index (BMI) ≥ 25 and < 29.9 kg/m² (adults), BMI 85th percentile to <95th percentile (children)

* Sample size <30

Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²; Exclude pregnant and lactating adolescents and women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-91 Body Composition^a Summary Statistics, Boys and Men 8-59 years of age with Obesity^b, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	41	16.9	0.7	.	11.4	14.0	16.7	20.2	21.3	23.0
	9-13 y	184	26.8	0.7	16.1	18.2	21.7	25.6	31.1	35.7	41.2
	14-18 y	139	35.1	1.0	20.0	22.0	27.5	33.2	41.6	51.0	55.2
	19-30 y	237	35.6	0.7	23.1	24.7	28.7	33.2	40.9	49.6	52.5
	31-50 y	464	34.2	0.6	22.6	24.6	27.2	32.4	39.4	48.1	50.9
	51-59 y	193	32.9	1.0	20.2	24.0	26.8	30.3	37.9	46.0	50.8
	19-59 y	894	34.3	0.4	22.6	24.5	27.5	32.3	39.2	48.1	51.8
Percent body fat (%)	8 y	41	38.3	0.9	27.7	31.3	36.8	39.2	40.7	43.0	43.9
	9-13 y	184	39.5	0.4	32.5	34.6	36.8	39.4	41.9	45.0	45.8
	14-18 y	139	34.6	0.6	23.4	25.3	30.8	34.6	39.2	42.8	44.7
	19-30 y	237	32.8	0.4	23.6	25.7	29.6	32.5	36.2	38.4	40.9
	31-50 y	464	31.6	0.3	24.8	25.9	28.3	31.2	34.7	38.0	39.2
	51-59 y	193	31.2	0.6	22.3	25.5	28.0	31.0	33.6	37.6	39.2
	19-59 y	894	31.8	0.2	24.1	25.9	28.4	31.5	35.0	38.2	40.1
Lean Mass Index (kg/m ²)	8 y	41	14.7	0.2	12.9	13.3	13.8	14.5	15.2	16.1	16.3
	9-13 y	184	17.0	0.2	14.1	14.5	15.3	16.4	18.1	20.7	21.7
	14-18 y	139	21.7	0.3	17.6	18.3	19.7	21.5	23.4	25.0	26.6
	19-30 y	237	23.5	0.2	20.7	21.0	21.7	23.2	24.4	26.5	28.0
	31-50 y	464	23.7	0.1	20.7	21.1	22.2	23.3	24.7	27.0	28.0
	51-59 y	193	23.7	0.3	20.8	21.6	22.5	23.4	24.8	26.6	26.9
	19-59 y	894	23.7	0.1	20.8	21.1	22.1	23.3	24.7	26.8	28.0
Fat Mass Index (kg/m ²)	19-30 y	237	11.7	0.2	7.4	8.2	9.6	11.1	12.8	16.0	17.7
	31-50 y	464	11.1	0.2	7.8	8.2	9.0	10.3	12.5	14.9	16.4
	51-59 y	193	10.9	0.3	7.2	8.1	8.9	10.4	12.1	15.6	16.4
	19-59 y	894	11.2	0.1	7.6	8.2	9.2	10.5	12.5	15.5	16.7
Visceral Adipose Tissue Mass (g)	8 y	43	287.7	12.8	.	209.4	245.8	271.7	315.3	381.6	416.8
	9-13 y	193	370.0	10.1	215.5	251.1	290.0	349.2	427.2	509.4	562.4
	14-18 y	156	401.3	12.1	209.5	252.3	301.7	375.1	471.5	607.4	652.0
	19-30 y	271	530.5	16.6	218.0	260.4	366.9	491.8	654.2	848.9	931.5
	31-50 y	576	731.0	13.9	368.9	414.6	558.3	707.8	861.9	1043.8	1198.0
	51-59 y	242	946.8	22.6	455.3	574.5	721.1	945.6	1103.0	1324.6	1408.1
	19-59 y	1089	730.4	11.0	310.5	381.2	510.8	699.7	913.5	1101.9	1266.7

^aDual-energy x-ray absorptiometry (DXA) data

^bBody Mass Index (BMI) > 30 kg/ m² (adults), BMI ≥ 95th percentile (children)

. Percentile not calculated using SUDAAN due to small sample size.

Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-92 Body Composition^a Summary Statistics, Girls and Women 8-59 years of age with Obesity^b, NHANES 2015-2018

Measure	Age (y)	n	Mean	SE	Percentiles						
					5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	33	18.3	0.8	13.6	14.1	15.7	17.6	19.2	21.4	28.6
	9-13 y	144	27.9	0.6	17.7	19.2	22.7	27.5	32.0	36.7	39.7
	14-18 y	125	39.3	0.7	28.6	30.7	33.1	37.7	43.4	51.0	53.8
	19-30 y	245	42.3	0.8	31.0	32.2	35.1	40.4	47.2	55.6	58.4
	31-50 y	592	43.0	0.6	30.2	31.7	35.2	40.9	49.1	56.7	61.0
	51-59 y	262	41.7	0.9	30.2	31.8	34.8	39.5	45.0	55.9	61.1
	19-59 y	1099	42.5	0.4	30.4	31.9	35.1	40.2	47.8	56.3	60.9
Percent body fat (%)	8 y	33	41.2	0.5	36.1	37.8	38.9	41.2	43.0	44.4	47.0
	9-13 y	144	41.3	0.3	33.0	35.9	38.4	41.4	44.0	46.7	47.9
	14-18 y	125	43.2	0.4	36.1	38.4	41.1	43.2	45.7	47.2	48.3
	19-30 y	245	43.6	0.3	37.2	39.0	41.2	43.5	46.4	48.5	49.6
	31-50 y	592	43.7	0.3	37.6	38.9	40.9	43.6	46.3	48.5	49.6
	51-59 y	262	44.3	0.4	37.5	38.7	41.9	44.7	46.5	48.9	50.6
	19-59 y	1099	43.9	0.2	37.5	38.9	41.3	43.8	46.4	48.5	50.0
Lean Mass Index (kg/m ²)	8 y	33	14.4	0.2	13.1	13.2	13.3	13.8	15.1	15.9	16.6
	9-13 y	144	16.7	0.2	13.7	13.9	15.4	16.6	17.6	18.9	19.5
	14-18 y	125	19.5	0.2	16.8	17.2	18.2	19.0	20.4	22.4	23.7
	19-30 y	245	20.6	0.2	17.5	18.0	18.9	19.9	21.9	23.2	25.0
	31-50 y	592	20.8	0.1	17.2	17.9	18.7	20.4	22.3	24.1	25.1
	51-59 y	262	20.1	0.2	16.8	17.3	18.1	19.7	21.4	23.5	25.2
	19-59 y	1099	20.6	0.1	17.2	17.7	18.6	20.1	22.0	23.8	25.1
Fat Mass Index (kg/m ²)	19-30 y	245	16.1	0.3	12.1	12.5	13.6	15.5	18.0	20.4	22.5
	31-50 y	592	16.4	0.2	12.0	12.5	13.6	15.5	18.5	21.5	22.6
	51-59 y	262	16.1	0.3	11.8	12.6	13.8	15.4	17.4	21.4	23.2
	19-59 y	1099	16.3	0.2	11.9	12.5	13.6	15.5	18.1	21.2	22.7
Visceral Adipose Tissue Mass (g)	8 y	37	294.0	14.7	158.3	185.6	255.4	276.9	356.1	399.9	419.1
	9-13 y	166	332.2	8.7	173.8	187.2	251.0	291.7	404.6	487.2	548.9
	14-18 y	136	399.9	13.7	208.1	232.4	295.8	369.9	494.7	580.0	665.4
	19-30 y	263	535.0	18.6	243.9	280.0	381.8	501.5	613.7	830.6	977.5
	31-50 y	629	698.8	19.1	327.4	372.6	486.9	646.0	857.1	1077.8	1246.0
	51-59 y	297	805.6	22.9	375.3	465.5	619.4	805.4	956.0	1171.3	1330.6
	19-59 y	1189	691.4	13.6	303.9	365.1	481.6	642.9	852.7	1062.0	1239.9

^aDual-energy x-ray absorptiometry (DXA) data^bBody Mass Index (BMI) > 30 kg/ m² (adults), BMI ≥ 95th percentile (children)Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²; Exclude pregnant and lactating adolescents and women

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-93 Body Composition^a Summary Statistics by Race/Ethnicity, Boys and Men, 8-59 years, NHANES 2015-2018

Measure	Age (y)	Race/Ethnicity	n	Mean	SE	Percentiles						
						5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	Hispanic	45	10.6	0.6	4.6	5.2	6.3	8.8	14.2	17.3	19.6
		Non-Hispanic Asian	8	*	*	*	*	*	*	*	*	*
		Non-Hispanic Black	46	9.0	0.9	3.6	4.9	5.6	7.4	11.2	15.7	17.5
		Non-Hispanic White	55	8.8	0.5	4.5	4.9	5.7	7.6	10.3	12.9	17.1
	9-13 y	Hispanic	234	15.5	0.8	6.5	6.9	9.1	13.3	20.3	26.7	31.9
		Non-Hispanic Asian	80	11.9	0.7	5.8	6.2	7.7	10.3	14.9	18.0	23.7
		Non-Hispanic Black	165	13.1	0.8	5.3	5.8	7.2	9.2	16.1	25.7	33.3
		Non-Hispanic White	219	14.3	0.6	5.9	6.7	7.9	11.1	18.5	26.7	32.7
	14-18 y	Hispanic	178	20.9	1.0	8.1	8.9	11.0	16.6	28.7	39.3	44.9
		Non-Hispanic Asian	70	17.1	1.1	7.9	8.6	11.1	15.0	18.5	30.1	37.2
		Non-Hispanic Black	141	18.1	1.4	7.1	7.8	9.2	11.6	20.4	42.7	51.5
		Non-Hispanic White	189	15.7	0.8	8.1	8.6	10.2	12.7	18.5	27.9	32.9
	19-59 y	Hispanic	726	25.4	0.5	12.3	14.7	19.0	23.9	29.7	37.2	43.9
		Non-Hispanic Asian	438	21.6	0.4	11.5	13.7	17.1	20.7	25.4	29.0	33.8
		Non-Hispanic Black	527	23.5	0.6	8.7	10.2	13.5	21.3	29.3	40.7	48.5
		Non-Hispanic White	729	24.9	0.4	10.8	12.6	17.6	23.7	30.3	38.6	45.9
Percent body fat (%)	8 y	Hispanic	45	30.7	1.0	19.4	20.7	23.7	30.0	37.3	40.5	40.7
		Non-Hispanic Asian	8	*	*	*	*	*	*	*	*	*
		Non-Hispanic Black	46	26.0	1.3	17.2	18.8	20.3	24.0	31.7	36.9	39.8
		Non-Hispanic White	55	27.4	0.8	18.9	19.6	22.9	26.4	30.9	35.6	38.6
	9-13 y	Hispanic	234	31.1	0.6	19.4	21.2	24.8	30.6	37.1	41.3	42.9
		Non-Hispanic Asian	80	28.1	0.9	16.2	17.2	21.0	27.1	34.1	39.5	42.1
		Non-Hispanic Black	165	25.6	0.9	15.3	16.5	18.7	22.4	31.3	39.3	41.6
		Non-Hispanic White	219	28.8	0.6	17.9	18.9	21.7	26.7	35.2	40.3	42.3
	14-18 y	Hispanic	178	26.0	0.7	14.6	15.7	18.3	24.5	31.9	37.7	41.1
		Non-Hispanic Asian	70	24.4	0.9	15.9	16.8	19.3	22.7	29.0	32.6	38.1
		Non-Hispanic Black	141	21.8	0.9	13.1	13.8	15.4	18.5	25.0	37.0	39.4
		Non-Hispanic White	189	22.5	0.7	15.0	15.6	17.1	20.4	26.8	32.5	35.5
	19-59 y	Hispanic	726	28.3	0.3	18.6	20.9	24.8	28.2	31.7	35.2	37.2
		Non-Hispanic Asian	438	27.4	0.2	19.0	21.1	23.7	27.5	30.7	33.7	35.4
		Non-Hispanic Black	527	24.8	0.4	13.8	15.0	18.5	25.0	29.6	34.3	36.7

Lean Mass Index (kg/m ²)	8 y	Non-Hispanic White	729	27.0	0.3	16.0	18.7	22.7	26.9	31.3	35.0	37.4
		Hispanic	45	12.9	0.3	10.9	11.0	11.8	12.4	13.7	15.1	15.6
		Non-Hispanic Asian	8	*	*	*	*	*	*	*	*	*
		Non-Hispanic Black	45	13.3	0.2	10.9	11.6	12.3	13.4	14.2	14.7	15.6
	9-13 y	Non-Hispanic White	55	12.6	0.2	10.7	11.1	11.5	12.5	13.2	14.1	14.5
		Hispanic	234	14.5	0.2	11.5	11.8	12.7	14.1	16.0	17.6	18.1
		Non-Hispanic Asian	78	13.4	0.2	10.9	11.0	11.9	13.3	14.5	15.8	16.4
		Non-Hispanic Black	165	15.0	0.2	11.8	12.2	13.3	14.5	16.2	18.1	19.1
	14-18 y	Non-Hispanic White	219	14.3	0.2	11.5	11.7	12.7	13.8	15.5	16.6	18.5
		Hispanic	178	18.7	0.3	14.6	15.5	16.7	18.1	20.2	22.6	24.0
		Non-Hispanic Asian	70	16.9	0.3	13.5	14.2	14.8	16.7	18.1	20.3	21.7
		Non-Hispanic Black	141	19.1	0.3	13.8	15.6	16.6	18.1	21.1	23.8	25.1
	19-59 y	Non-Hispanic White	188	17.1	0.2	12.9	14.1	15.5	17.0	18.6	20.0	20.7
		Hispanic	722	21.3	0.1	16.8	17.9	19.4	21.0	22.9	25.0	26.7
		Non-Hispanic Asian	435	19.1	0.1	15.6	16.3	17.5	18.9	20.2	21.7	22.7
		Non-Hispanic Black	526	21.4	0.2	16.6	17.5	18.8	20.9	23.3	25.8	27.3
Fat Mass Index (kg/m ²)	19-59 y	Non-Hispanic White	728	20.6	0.2	16.1	17.0	18.5	20.3	22.5	24.2	25.8
		Hispanic	722	8.7	0.2	4.2	5.1	6.6	8.2	10.1	12.7	15.1
		Non-Hispanic Asian	435	7.4	0.1	4.1	4.7	5.7	7.1	8.6	10.0	11.1
		Non-Hispanic Black	526	7.6	0.2	2.8	3.2	4.3	6.9	9.8	12.8	15.4
Visceral Adipose Tissue Mass (g)	8 y	Non-Hispanic White	728	8.0	0.1	3.5	4.1	5.7	7.5	9.7	12.1	14.7
		Hispanic	47	223.0	13.4	130.1	137.8	155.4	196.5	271.5	337.0	394.8
		Non-Hispanic Asian	11	*	*	*	*	*	*	*	*	*
		Non-Hispanic Black	49	180.8	9.9	114.1	124.6	139.5	158.5	205.2	281.8	293.8
	9-13 y	Non-Hispanic White	55	181.0	7.2	127.1	132.6	141.1	171.8	198.5	252.8	272.7
		Hispanic	241	255.9	9.0	139.5	152.1	174.1	216.0	307.2	411.3	494.7
		Non-Hispanic Asian	84	213.8	9.5	133.4	140.3	155.8	186.2	231.6	325.9	367.9
		Non-Hispanic Black	169	201.1	7.5	124.6	132.3	150.0	171.4	218.0	323.6	362.8
	14-18 y	Non-Hispanic White	226	234.6	7.8	132.1	142.4	164.0	199.9	282.4	373.8	430.4
		Hispanic	187	285.0	10.8	152.5	166.6	185.6	221.1	322.1	508.9	638.3
		Non-Hispanic Asian	80	231.2	8.6	154.1	167.8	178.3	208.1	264.8	324.4	352.2
		Non-Hispanic Black	156	218.2	9.0	140.2	146.1	161.5	185.8	230.4	369.3	426.0
	19-59 y	Non-Hispanic White	212	240.7	7.0	152.1	164.3	179.9	208.1	266.0	376.2	421.1
		Hispanic	794	565.4	12.2	213.2	251.5	375.5	531.9	711.7	914.7	1074.8

Non-Hispanic Asian	462	471.5	9.0	203.0	236.5	323.9	441.2	588.0	730.8	822.1
Non-Hispanic Black	639	408.3	10.1	163.3	182.7	225.7	348.0	540.9	708.5	824.9
Non-Hispanic White	906	565.8	14.5	199.2	222.8	314.4	500.8	764.7	977.8	1101.5

* Sample size <30

Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²

SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018

TABLE Y-94 Body Composition^a Summary Statistics by Race/Ethnicity, Girls and Women, 8-59 years, NHANES 2015-2018

Measure	Age (y)	Race/Ethnicity	n	Mean	SE	Percentiles						
						5 th	10 th	25 th	50 th	75 th	90 th	95 th
Total Body Fat Mass (Kg)	8 y	Hispanic	56	11.8	0.8	4.6	5.8	7.8	10.6	14.9	18.0	19.2
		Non-Hispanic Asian	11	*	*	*	*	*	*	*	*	*
		Non-Hispanic Black	34	13.2	1.1	5.0	6.2	8.4	10.8	15.2	20.7	30.5
		Non-Hispanic White	34	9.9	0.6	4.8	5.6	6.8	7.9	12.2	16.6	19.3
	9-13 y	Hispanic	238	16.8	0.6	7.4	8.5	10.4	14.8	20.8	28.1	32.5
		Non-Hispanic Asian	60	12.6	0.8	6.5	6.9	8.9	11.3	14.9	19.2	22.6
		Non-Hispanic Black	138	17.0	1.1	6.5	7.7	9.1	14.4	23.1	28.8	35.7
		Non-Hispanic White	208	15.2	0.5	7.1	7.9	9.3	13.3	19.5	25.2	31.7
	14-18 y	Hispanic	194	24.8	0.8	13.1	14.5	17.9	22.7	29.7	35.8	41.6
		Non-Hispanic Asian	63	19.7	0.7	11.6	13.0	15.1	19.5	23.5	27.7	30.0
		Non-Hispanic Black	118	25.0	1.1	10.7	11.6	16.0	21.9	31.2	41.9	51.6
		Non-Hispanic White	177	22.6	0.9	11.5	12.7	16.0	20.0	27.8	37.5	43.2
	19-59 y	Hispanic	804	31.2	0.4	14.9	17.5	23.3	29.6	37.1	46.5	50.6
		Non-Hispanic Asian	387	23.1	0.4	13.3	14.5	17.7	21.6	28.0	34.1	37.4
		Non-Hispanic Black	519	33.7	0.6	13.6	17.3	23.6	33.0	41.8	51.3	56.4
		Non-Hispanic White	814	30.8	0.7	14.5	16.1	21.0	28.9	37.5	48.7	55.7
Percent body fat (%)	8 y	Hispanic	56	35.0	1.0	21.8	27.3	30.2	35.4	39.9	42.1	44.2
		Non-Hispanic Asian	11	*	*	*	*	*	*	*	*	*
		Non-Hispanic Black	34	33.9	1.3	23.1	23.6	26.9	32.4	39.5	43.7	45.5
		Non-Hispanic White	34	31.5	1.0	20.1	23.5	27.5	30.9	36.0	40.5	41.6
	9-13 y	Hispanic	238	34.3	0.6	24.0	26.0	29.0	34.2	38.8	42.7	44.6
		Non-Hispanic Asian	60	30.0	0.7	20.3	21.7	27.0	30.0	33.5	36.1	39.1
		Non-Hispanic Black	138	31.4	0.8	19.7	21.8	26.0	29.6	37.7	41.8	45.7
		Non-Hispanic White	208	32.0	0.6	21.6	23.7	26.8	31.2	36.8	41.0	43.2

Lean Mass Index (kg/m ²)	14-18 y	Hispanic	194	37.3	0.4	27.4	29.2	33.0	37.2	41.5	43.8	46.5
		Non-Hispanic Asian	63	34.4	0.6	24.7	27.9	30.4	34.6	38.5	40.3	41.1
		Non-Hispanic Black	118	34.0	0.7	21.3	23.8	28.4	33.6	39.0	43.7	46.4
		Non-Hispanic White	177	33.7	0.7	23.8	25.7	28.6	32.5	37.8	43.4	45.5
	19-59 y	Hispanic	804	40.0	0.3	29.4	31.9	36.6	40.6	44.0	47.1	48.8
		Non-Hispanic Asian	387	36.8	0.4	26.9	28.7	32.8	36.8	41.3	44.0	45.6
		Non-Hispanic Black	519	38.9	0.3	25.3	28.7	34.9	39.9	43.9	46.7	48.1
		Non-Hispanic White	814	38.3	0.4	26.0	28.2	33.9	39.0	43.3	46.4	48.2
	8 y	Hispanic	56	12.2	0.3	9.7	10.1	10.7	12.1	13.4	14.0	14.8
		Non-Hispanic Asian	11	*	*	*	*	*	*	*	*	*
		Non-Hispanic Black	34	13.3	0.3	9.9	10.7	12.1	13.1	13.9	15.5	16.8
		Non-Hispanic White	34	12.2	0.2	9.5	10.0	10.9	12.0	12.9	14.0	14.7
	9-13 y	Hispanic	237	13.8	0.2	11.0	11.5	12.1	13.3	15.1	16.8	17.8
		Non-Hispanic Asian	60	12.9	0.3	10.0	10.5	11.5	12.3	13.6	15.9	16.8
		Non-Hispanic Black	137	14.8	0.3	10.8	11.4	12.9	14.6	16.1	17.9	19.2
		Non-Hispanic White	207	13.6	0.1	11.1	11.3	12.1	13.2	14.7	16.4	17.4
	14-18 y	Hispanic	194	15.9	0.2	12.2	12.9	14.2	15.5	17.1	18.7	19.6
		Non-Hispanic Asian	63	14.5	0.2	11.9	12.2	13.2	14.0	15.4	17.2	18.0
		Non-Hispanic Black	118	17.2	0.3	13.2	13.7	15.2	16.7	18.8	20.6	22.5
		Non-Hispanic White	177	15.7	0.2	12.7	12.9	14.1	15.4	16.7	18.6	19.7
19-59 y	Hispanic	800	17.9	0.1	13.8	14.4	15.7	17.4	19.5	22.0	23.3	
	Non-Hispanic Asian	387	15.5	0.1	12.8	13.2	14.0	15.2	16.7	18.3	19.4	
	Non-Hispanic Black	518	18.8	0.2	14.0	14.7	16.3	18.5	21.0	23.2	25.0	
	Non-Hispanic White	814	17.5	0.1	13.5	14.1	15.2	16.9	19.0	21.9	23.2	
Fat Mass Index (kg/m ²)	19-59 y	Hispanic	800	12.5	0.2	6.1	7.1	9.4	12.0	14.9	18.0	20.4
		Non-Hispanic Asian	387	9.4	0.2	5.3	5.8	7.0	8.8	11.5	13.3	14.8

Visceral Adipose Tissue Mass (g)	8 y	Non-Hispanic Black	518	12.7	0.2	5.1	6.3	8.9	12.4	16.0	19.3	21.3
		Non-Hispanic White	814	11.5	0.2	5.4	5.9	7.8	10.8	14.1	18.2	20.6
		Hispanic	61	161.7	17.1	15.8	44.3	81.6	120.6	226.3	322.4	379.2
		Non-Hispanic Asian	12	*	*	*	*	*	*	*	*	*
9-13 y	Non-Hispanic Black	42	130.1	15.4	25.6	38.0	62.6	83.4	169.6	260.2	333.5	
	Non-Hispanic White	37	119.5	16.9	38.0	51.0	64.7	75.1	128.8	270.5	319.3	
	Hispanic	251	202.8	10.1	58.3	80.7	108.8	163.6	268.7	391.3	452.3	
	Non-Hispanic Asian	64	146.8	11.8	56.7	67.4	93.1	118.7	171.6	270.0	355.9	
14-18 y	Non-Hispanic Black	188	160.0	9.4	25.1	47.1	73.2	130.1	219.4	314.1	379.6	
	Non-Hispanic White	212	161.7	8.3	37.4	60.5	82.1	118.2	219.5	287.4	432.9	
	Hispanic	196	264.6	10.0	90.8	105.2	145.2	236.8	348.2	483.4	545.5	
	Non-Hispanic Asian	63	199.1	10.5	79.9	92.2	110.5	176.7	258.1	319.9	397.4	
19-59 y	Non-Hispanic Black	145	199.7	11.9	56.5	73.6	107.8	159.4	250.6	370.6	462.8	
	Non-Hispanic White	178	205.8	13.3	64.9	80.1	107.7	167.3	264.3	394.3	469.2	
	Hispanic	823	516.2	14.5	125.8	174.3	302.0	482.2	685.5	899.7	1016.3	
	Non-Hispanic Asian	418	370.5	10.4	120.9	150.0	226.4	346.5	483.2	620.2	691.6	
	Non-Hispanic Black	656	417.3	11.0	101.7	132.4	241.0	380.9	538.3	753.7	883.8	
	Non-Hispanic White	859	474.8	14.0	106.4	137.4	235.4	404.5	645.8	896.0	1058.7	

^aDual-energy x-ray absorptiometry (DXA) data

* Sample size <30

Note: Fat mass index calculated as fat mass/height² and lean mass index as lean mass(including bone mineral content)/height²; Exclude pregnant and lactating adolescents and
SOURCE: National Health and Nutrition Examination Survey (NHANES), 2015-2018