

# BMI-for-age BOYS

5 to 19 years (percentiles)



Year: Month	Month	L	M	S	Percentiles (BMI in kg/m <sup>2</sup> )										
					1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
5: 1	61	-0.7387	15.2641	0.08390	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.7	17.7	18.1	18.8
5: 2	62	-0.7621	15.2616	0.08414	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.7	17.7	18.1	18.9
5: 3	63	-0.7856	15.2604	0.08439	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.7	17.7	18.1	18.9
5: 4	64	-0.8089	15.2605	0.08464	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.7	17.7	18.1	18.9
5: 5	65	-0.8322	15.2619	0.08490	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.7	17.7	18.1	18.9
5: 6	66	-0.8554	15.2645	0.08516	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.7	17.7	18.1	19.0
5: 7	67	-0.8785	15.2684	0.08543	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.7	17.7	18.2	19.0
5: 8	68	-0.9015	15.2737	0.08570	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.8	17.8	18.2	19.0
5: 9	69	-0.9243	15.2801	0.08597	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.8	17.8	18.2	19.1
5:10	70	-0.9471	15.2877	0.08625	12.7	13.1	13.4	14.0	14.4	15.3	16.2	16.8	17.8	18.2	19.1
5:11	71	-0.9697	15.2965	0.08653	12.7	13.2	13.4	14.0	14.5	15.3	16.2	16.8	17.8	18.3	19.1
6: 0	72	-0.9921	15.3062	0.08682	12.7	13.2	13.4	14.0	14.5	15.3	16.3	16.8	17.9	18.3	19.2
6: 1	73	-1.0144	15.3169	0.08711	12.7	13.2	13.4	14.0	14.5	15.3	16.3	16.8	17.9	18.3	19.2
6: 2	74	-1.0365	15.3285	0.08741	12.7	13.2	13.4	14.1	14.5	15.3	16.3	16.9	17.9	18.4	19.3
6: 3	75	-1.0584	15.3408	0.08771	12.8	13.2	13.4	14.1	14.5	15.3	16.3	16.9	17.9	18.4	19.3
6: 4	76	-1.0801	15.3540	0.08802	12.8	13.2	13.4	14.1	14.5	15.4	16.3	16.9	18.0	18.4	19.4
6: 5	77	-1.1017	15.3679	0.08833	12.8	13.2	13.4	14.1	14.5	15.4	16.3	16.9	18.0	18.5	19.4
6: 6	78	-1.1230	15.3825	0.08865	12.8	13.2	13.4	14.1	14.5	15.4	16.4	16.9	18.0	18.5	19.4
6: 7	79	-1.1441	15.3978	0.08898	12.8	13.2	13.4	14.1	14.5	15.4	16.4	17.0	18.1	18.5	19.5
6: 8	80	-1.1649	15.4137	0.08931	12.8	13.2	13.5	14.1	14.5	15.4	16.4	17.0	18.1	18.6	19.6
6: 9	81	-1.1856	15.4302	0.08964	12.8	13.2	13.5	14.1	14.6	15.4	16.4	17.0	18.1	18.6	19.6
6:10	82	-1.2060	15.4473	0.08998	12.8	13.2	13.5	14.1	14.6	15.4	16.5	17.1	18.2	18.7	19.7
6:11	83	-1.2261	15.4650	0.09033	12.8	13.3	13.5	14.2	14.6	15.5	16.5	17.1	18.2	18.7	19.7
7: 0	84	-1.2460	15.4832	0.09068	12.8	13.3	13.5	14.2	14.6	15.5	16.5	17.1	18.3	18.8	19.8
7: 1	85	-1.2656	15.5019	0.09103	12.9	13.3	13.5	14.2	14.6	15.5	16.5	17.1	18.3	18.8	19.8
7: 2	86	-1.2849	15.5210	0.09139	12.9	13.3	13.5	14.2	14.6	15.5	16.6	17.2	18.3	18.8	19.9

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					1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
7: 3	87	-1.3040	15.5407	0.09176	12.9	13.3	13.5	14.2	14.6	15.5	16.6	17.2	18.4	18.9	20.0
7: 4	88	-1.3228	15.5608	0.09213	12.9	13.3	13.6	14.2	14.7	15.6	16.6	17.2	18.4	18.9	20.0
7: 5	89	-1.3414	15.5814	0.09251	12.9	13.3	13.6	14.2	14.7	15.6	16.6	17.3	18.5	19.0	20.1
7: 6	90	-1.3596	15.6023	0.09289	12.9	13.3	13.6	14.3	14.7	15.6	16.7	17.3	18.5	19.0	20.2
7: 7	91	-1.3776	15.6237	0.09327	12.9	13.4	13.6	14.3	14.7	15.6	16.7	17.3	18.6	19.1	20.2
7: 8	92	-1.3953	15.6455	0.09366	12.9	13.4	13.6	14.3	14.7	15.6	16.7	17.4	18.6	19.2	20.3
7: 9	93	-1.4126	15.6677	0.09406	12.9	13.4	13.6	14.3	14.7	15.7	16.7	17.4	18.7	19.2	20.4
7:10	94	-1.4297	15.6903	0.09445	13.0	13.4	13.6	14.3	14.8	15.7	16.8	17.4	18.7	19.3	20.4
7:11	95	-1.4464	15.7133	0.09486	13.0	13.4	13.7	14.3	14.8	15.7	16.8	17.5	18.8	19.3	20.5
8: 0	96	-1.4629	15.7368	0.09526	13.0	13.4	13.7	14.4	14.8	15.7	16.8	17.5	18.8	19.4	20.6
8: 1	97	-1.4790	15.7606	0.09567	13.0	13.4	13.7	14.4	14.8	15.8	16.9	17.5	18.9	19.4	20.6
8: 2	98	-1.4947	15.7848	0.09609	13.0	13.5	13.7	14.4	14.8	15.8	16.9	17.6	18.9	19.5	20.7
8: 3	99	-1.5101	15.8094	0.09651	13.0	13.5	13.7	14.4	14.9	15.8	16.9	17.6	19.0	19.5	20.8
8: 4	100	-1.5252	15.8344	0.09693	13.0	13.5	13.7	14.4	14.9	15.8	17.0	17.7	19.0	19.6	20.9
8: 5	101	-1.5399	15.8597	0.09735	13.1	13.5	13.7	14.4	14.9	15.9	17.0	17.7	19.1	19.7	21.0
8: 6	102	-1.5542	15.8855	0.09778	13.1	13.5	13.8	14.5	14.9	15.9	17.0	17.7	19.1	19.7	21.0
8: 7	103	-1.5681	15.9116	0.09821	13.1	13.5	13.8	14.5	14.9	15.9	17.1	17.8	19.2	19.8	21.1
8: 8	104	-1.5817	15.9381	0.09864	13.1	13.5	13.8	14.5	15.0	15.9	17.1	17.8	19.2	19.9	21.2
8: 9	105	-1.5948	15.9651	0.09907	13.1	13.6	13.8	14.5	15.0	16.0	17.1	17.9	19.3	19.9	21.3
8:10	106	-1.6076	15.9925	0.09951	13.1	13.6	13.8	14.5	15.0	16.0	17.2	17.9	19.3	20.0	21.4
8:11	107	-1.6199	16.0205	0.09994	13.2	13.6	13.8	14.6	15.0	16.0	17.2	17.9	19.4	20.0	21.4
9: 0	108	-1.6318	16.0490	0.10038	13.2	13.6	13.9	14.6	15.1	16.0	17.2	18.0	19.5	20.1	21.5
9: 1	109	-1.6433	16.0781	0.10082	13.2	13.6	13.9	14.6	15.1	16.1	17.3	18.0	19.5	20.2	21.6
9: 2	110	-1.6544	16.1078	0.10126	13.2	13.7	13.9	14.6	15.1	16.1	17.3	18.1	19.6	20.2	21.7
9: 3	111	-1.6651	16.1381	0.10170	13.2	13.7	13.9	14.6	15.1	16.1	17.4	18.1	19.6	20.3	21.8

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					1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
9: 4	112	-1.6753	16.1692	0.10214	13.2	13.7	13.9	14.7	15.1	16.2	17.4	18.2	19.7	20.4	21.9
9: 5	113	-1.6851	16.2009	0.10259	13.3	13.7	14.0	14.7	15.2	16.2	17.4	18.2	19.8	20.5	22.0
9: 6	114	-1.6944	16.2333	0.10303	13.3	13.7	14.0	14.7	15.2	16.2	17.5	18.3	19.8	20.5	22.1
9: 7	115	-1.7032	16.2665	0.10347	13.3	13.8	14.0	14.7	15.2	16.3	17.5	18.3	19.9	20.6	22.2
9: 8	116	-1.7116	16.3004	0.10391	13.3	13.8	14.0	14.8	15.3	16.3	17.6	18.4	20.0	20.7	22.3
9: 9	117	-1.7196	16.3351	0.10435	13.3	13.8	14.1	14.8	15.3	16.3	17.6	18.4	20.0	20.8	22.4
9:10	118	-1.7271	16.3704	0.10478	13.4	13.8	14.1	14.8	15.3	16.4	17.7	18.5	20.1	20.8	22.5
9:11	119	-1.7341	16.4065	0.10522	13.4	13.8	14.1	14.8	15.3	16.4	17.7	18.5	20.2	20.9	22.6
10: 0	120	-1.7407	16.4433	0.10566	13.4	13.9	14.1	14.9	15.4	16.4	17.7	18.6	20.2	21.0	22.7
10: 1	121	-1.7468	16.4807	0.10609	13.4	13.9	14.2	14.9	15.4	16.5	17.8	18.6	20.3	21.1	22.8
10: 2	122	-1.7525	16.5189	0.10652	13.4	13.9	14.2	14.9	15.4	16.5	17.8	18.7	20.4	21.1	22.9
10: 3	123	-1.7578	16.5578	0.10695	13.5	13.9	14.2	15.0	15.5	16.6	17.9	18.7	20.4	21.2	23.0
10: 4	124	-1.7626	16.5974	0.10738	13.5	14.0	14.2	15.0	15.5	16.6	17.9	18.8	20.5	21.3	23.1
10: 5	125	-1.7670	16.6376	0.10780	13.5	14.0	14.3	15.0	15.5	16.6	18.0	18.8	20.6	21.4	23.2
10: 6	126	-1.7710	16.6786	0.10823	13.5	14.0	14.3	15.1	15.6	16.7	18.0	18.9	20.7	21.5	23.3
10: 7	127	-1.7745	16.7203	0.10865	13.6	14.0	14.3	15.1	15.6	16.7	18.1	19.0	20.7	21.6	23.4
10: 8	128	-1.7777	16.7628	0.10906	13.6	14.1	14.3	15.1	15.6	16.8	18.1	19.0	20.8	21.6	23.5
10: 9	129	-1.7804	16.8059	0.10948	13.6	14.1	14.4	15.2	15.7	16.8	18.2	19.1	20.9	21.7	23.6
10:10	130	-1.7828	16.8497	0.10989	13.6	14.1	14.4	15.2	15.7	16.9	18.2	19.1	21.0	21.8	23.7
10:11	131	-1.7847	16.8941	0.11030	13.7	14.2	14.4	15.2	15.8	16.9	18.3	19.2	21.0	21.9	23.8
11: 0	132	-1.7862	16.9392	0.11070	13.7	14.2	14.5	15.3	15.8	16.9	18.4	19.3	21.1	22.0	23.9
11: 1	133	-1.7873	16.9850	0.11110	13.7	14.2	14.5	15.3	15.8	17.0	18.4	19.3	21.2	22.1	24.0
11: 2	134	-1.7881	17.0314	0.11150	13.8	14.3	14.5	15.3	15.9	17.0	18.5	19.4	21.3	22.2	24.1
11: 3	135	-1.7884	17.0784	0.11189	13.8	14.3	14.6	15.4	15.9	17.1	18.5	19.4	21.4	22.2	24.2

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		L	M	S	1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
11: 4	136	-1.7884	17.1262	0.11228	13.8	14.3	14.6	15.4	16.0	17.1	18.6	19.5	21.4	22.3	24.4
11: 5	137	-1.7880	17.1746	0.11266	13.9	14.4	14.6	15.4	16.0	17.2	18.6	19.6	21.5	22.4	24.5
11: 6	138	-1.7873	17.2236	0.11304	13.9	14.4	14.7	15.5	16.0	17.2	18.7	19.6	21.6	22.5	24.6
11: 7	139	-1.7861	17.2734	0.11342	13.9	14.4	14.7	15.5	16.1	17.3	18.8	19.7	21.7	22.6	24.7
11: 8	140	-1.7846	17.3240	0.11379	13.9	14.5	14.7	15.6	16.1	17.3	18.8	19.8	21.8	22.7	24.8
11: 9	141	-1.7828	17.3752	0.11415	14.0	14.5	14.8	15.6	16.2	17.4	18.9	19.8	21.8	22.8	24.9
11:10	142	-1.7806	17.4272	0.11451	14.0	14.5	14.8	15.6	16.2	17.4	18.9	19.9	21.9	22.9	25.0
11:11	143	-1.7780	17.4799	0.11487	14.0	14.6	14.9	15.7	16.3	17.5	19.0	20.0	22.0	23.0	25.1
12: 0	144	-1.7751	17.5334	0.11522	14.1	14.6	14.9	15.7	16.3	17.5	19.1	20.1	22.1	23.1	25.2
12: 1	145	-1.7719	17.5877	0.11556	14.1	14.6	14.9	15.8	16.3	17.6	19.1	20.1	22.2	23.1	25.3
12: 2	146	-1.7684	17.6427	0.11590	14.2	14.7	15.0	15.8	16.4	17.6	19.2	20.2	22.3	23.2	25.4
12: 3	147	-1.7645	17.6985	0.11623	14.2	14.7	15.0	15.9	16.4	17.7	19.3	20.3	22.3	23.3	25.6
12: 4	148	-1.7604	17.7551	0.11656	14.2	14.8	15.1	15.9	16.5	17.8	19.3	20.3	22.4	23.4	25.7
12: 5	149	-1.7559	17.8124	0.11688	14.3	14.8	15.1	16.0	16.5	17.8	19.4	20.4	22.5	23.5	25.8
12: 6	150	-1.7511	17.8704	0.11720	14.3	14.8	15.1	16.0	16.6	17.9	19.5	20.5	22.6	23.6	25.9
12: 7	151	-1.7461	17.9292	0.11751	14.3	14.9	15.2	16.1	16.6	17.9	19.5	20.6	22.7	23.7	26.0
12: 8	152	-1.7408	17.9887	0.11781	14.4	14.9	15.2	16.1	16.7	18.0	19.6	20.6	22.8	23.8	26.1
12: 9	153	-1.7352	18.0488	0.11811	14.4	15.0	15.3	16.2	16.8	18.0	19.7	20.7	22.9	23.9	26.2
12:10	154	-1.7293	18.1096	0.11841	14.5	15.0	15.3	16.2	16.8	18.1	19.7	20.8	23.0	24.0	26.3
12:11	155	-1.7232	18.1710	0.11869	14.5	15.0	15.4	16.3	16.9	18.2	19.8	20.9	23.1	24.1	26.4
13: 0	156	-1.7168	18.2330	0.11898	14.5	15.1	15.4	16.3	16.9	18.2	19.9	20.9	23.1	24.2	26.5
13: 1	157	-1.7102	18.2955	0.11925	14.6	15.1	15.4	16.4	17.0	18.3	19.9	21.0	23.2	24.3	26.7
13: 2	158	-1.7033	18.3586	0.11952	14.6	15.2	15.5	16.4	17.0	18.4	20.0	21.1	23.3	24.4	26.8
13: 3	159	-1.6962	18.4221	0.11979	14.7	15.2	15.5	16.5	17.1	18.4	20.1	21.2	23.4	24.5	26.9

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13: 4	160	-1.6888	18.4860	0.12005	14.7	15.3	15.6	16.5	17.1	18.5	20.2	21.3	23.5	24.6	27.0
13: 5	161	-1.6811	18.5502	0.12030	14.7	15.3	15.6	16.6	17.2	18.6	20.2	21.3	23.6	24.7	27.1
13: 6	162	-1.6732	18.6148	0.12055	14.8	15.4	15.7	16.6	17.2	18.6	20.3	21.4	23.7	24.8	27.2
13: 7	163	-1.6651	18.6795	0.12079	14.8	15.4	15.7	16.7	17.3	18.7	20.4	21.5	23.8	24.9	27.3
13: 8	164	-1.6568	18.7445	0.12102	14.9	15.5	15.8	16.7	17.4	18.7	20.5	21.6	23.9	24.9	27.4
13: 9	165	-1.6482	18.8095	0.12125	14.9	15.5	15.8	16.8	17.4	18.8	20.5	21.7	24.0	25.0	27.5
13:10	166	-1.6394	18.8746	0.12148	15.0	15.5	15.9	16.8	17.5	18.9	20.6	21.7	24.0	25.1	27.6
13:11	167	-1.6304	18.9398	0.12170	15.0	15.6	15.9	16.9	17.5	18.9	20.7	21.8	24.1	25.2	27.7
14: 0	168	-1.6211	19.0050	0.12191	15.1	15.6	16.0	16.9	17.6	19.0	20.8	21.9	24.2	25.3	27.8
14: 1	169	-1.6116	19.0701	0.12212	15.1	15.7	16.0	17.0	17.7	19.1	20.8	22.0	24.3	25.4	27.9
14: 2	170	-1.6020	19.1351	0.12233	15.1	15.7	16.1	17.0	17.7	19.1	20.9	22.0	24.4	25.5	28.0
14: 3	171	-1.5921	19.2000	0.12253	15.2	15.8	16.1	17.1	17.8	19.2	21.0	22.1	24.5	25.6	28.1
14: 4	172	-1.5821	19.2648	0.12272	15.2	15.8	16.2	17.2	17.8	19.3	21.1	22.2	24.6	25.7	28.2
14: 5	173	-1.5719	19.3294	0.12291	15.3	15.9	16.2	17.2	17.9	19.3	21.1	22.3	24.7	25.8	28.3
14: 6	174	-1.5615	19.3937	0.12310	15.3	15.9	16.3	17.3	17.9	19.4	21.2	22.4	24.7	25.8	28.3
14: 7	175	-1.5510	19.4578	0.12328	15.3	16.0	16.3	17.3	18.0	19.5	21.3	22.4	24.8	25.9	28.4
14: 8	176	-1.5403	19.5217	0.12346	15.4	16.0	16.4	17.4	18.1	19.5	21.3	22.5	24.9	26.0	28.5
14: 9	177	-1.5294	19.5853	0.12363	15.4	16.1	16.4	17.4	18.1	19.6	21.4	22.6	25.0	26.1	28.6
14:10	178	-1.5185	19.6486	0.12380	15.5	16.1	16.5	17.5	18.2	19.6	21.5	22.7	25.1	26.2	28.7
14:11	179	-1.5074	19.7117	0.12396	15.5	16.1	16.5	17.5	18.2	19.7	21.6	22.7	25.1	26.3	28.8
15: 0	180	-1.4961	19.7744	0.12412	15.6	16.2	16.5	17.6	18.3	19.8	21.6	22.8	25.2	26.4	28.9
15: 1	181	-1.4848	19.8367	0.12428	15.6	16.2	16.6	17.6	18.3	19.8	21.7	22.9	25.3	26.4	28.9
15: 2	182	-1.4733	19.8987	0.12443	15.6	16.3	16.6	17.7	18.4	19.9	21.8	23.0	25.4	26.5	29.0
15: 3	183	-1.4617	19.9603	0.12458	15.7	16.3	16.7	17.7	18.4	20.0	21.8	23.0	25.5	26.6	29.1

2007 WHO Reference

# BMI-for-age BOYS

5 to 19 years (percentiles)



Year: Month	Month	L	M	S	Percentiles (BMI in kg/m <sup>2</sup> )										
					1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
15: 4	184	-1.4500	20.0215	0.12473	15.7	16.4	16.7	17.8	18.5	20.0	21.9	23.1	25.5	26.7	29.2
15: 5	185	-1.4382	20.0823	0.12487	15.8	16.4	16.8	17.8	18.5	20.1	22.0	23.2	25.6	26.7	29.3
15: 6	186	-1.4263	20.1427	0.12501	15.8	16.4	16.8	17.9	18.6	20.1	22.0	23.2	25.7	26.8	29.3
15: 7	187	-1.4143	20.2026	0.12514	15.8	16.5	16.9	17.9	18.7	20.2	22.1	23.3	25.8	26.9	29.4
15: 8	188	-1.4022	20.2621	0.12528	15.9	16.5	16.9	18.0	18.7	20.3	22.2	23.4	25.8	27.0	29.5
15: 9	189	-1.3900	20.3211	0.12541	15.9	16.6	17.0	18.0	18.8	20.3	22.2	23.5	25.9	27.0	29.5
15:10	190	-1.3777	20.3796	0.12554	15.9	16.6	17.0	18.1	18.8	20.4	22.3	23.5	26.0	27.1	29.6
15:11	191	-1.3653	20.4376	0.12567	16.0	16.7	17.0	18.1	18.9	20.4	22.4	23.6	26.1	27.2	29.7
16: 0	192	-1.3529	20.4951	0.12579	16.0	16.7	17.1	18.2	18.9	20.5	22.4	23.7	26.1	27.3	29.7
16: 1	193	-1.3403	20.5521	0.12591	16.1	16.7	17.1	18.2	19.0	20.6	22.5	23.7	26.2	27.3	29.8
16: 2	194	-1.3277	20.6085	0.12603	16.1	16.8	17.2	18.3	19.0	20.6	22.6	23.8	26.3	27.4	29.9
16: 3	195	-1.3149	20.6644	0.12615	16.1	16.8	17.2	18.3	19.1	20.7	22.6	23.9	26.3	27.5	29.9
16: 4	196	-1.3021	20.7197	0.12627	16.2	16.8	17.2	18.4	19.1	20.7	22.7	23.9	26.4	27.5	30.0
16: 5	197	-1.2892	20.7745	0.12638	16.2	16.9	17.3	18.4	19.2	20.8	22.7	24.0	26.5	27.6	30.1
16: 6	198	-1.2762	20.8287	0.12650	16.2	16.9	17.3	18.5	19.2	20.8	22.8	24.0	26.5	27.7	30.1
16: 7	199	-1.2631	20.8824	0.12661	16.3	17.0	17.4	18.5	19.3	20.9	22.9	24.1	26.6	27.7	30.2
16: 8	200	-1.2499	20.9355	0.12672	16.3	17.0	17.4	18.5	19.3	20.9	22.9	24.2	26.7	27.8	30.2
16: 9	201	-1.2366	20.9881	0.12683	16.3	17.0	17.4	18.6	19.3	21.0	23.0	24.2	26.7	27.8	30.3
16:10	202	-1.2233	21.0400	0.12694	16.4	17.1	17.5	18.6	19.4	21.0	23.0	24.3	26.8	27.9	30.4
16:11	203	-1.2098	21.0914	0.12704	16.4	17.1	17.5	18.7	19.4	21.1	23.1	24.3	26.8	28.0	30.4
17: 0	204	-1.1962	21.1423	0.12715	16.4	17.1	17.5	18.7	19.5	21.1	23.1	24.4	26.9	28.0	30.5
17: 1	205	-1.1826	21.1925	0.12726	16.4	17.2	17.6	18.7	19.5	21.2	23.2	24.5	27.0	28.1	30.5
17: 2	206	-1.1688	21.2423	0.12736	16.5	17.2	17.6	18.8	19.6	21.2	23.3	24.5	27.0	28.1	30.6
17: 3	207	-1.1550	21.2914	0.12746	16.5	17.2	17.6	18.8	19.6	21.3	23.3	24.6	27.1	28.2	30.6

2007 WHO Reference

# BMI-for-age BOYS

5 to 19 years (percentiles)



Year: Month	Month	L	M	S	Percentiles (BMI in kg/m <sup>2</sup> )										
					1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
17: 4	208	-1.1410	21.3400	0.12756	16.5	17.3	17.7	18.9	19.7	21.3	23.4	24.6	27.1	28.2	30.7
17: 5	209	-1.1270	21.3880	0.12767	16.6	17.3	17.7	18.9	19.7	21.4	23.4	24.7	27.2	28.3	30.7
17: 6	210	-1.1129	21.4354	0.12777	16.6	17.3	17.7	18.9	19.7	21.4	23.5	24.7	27.2	28.4	30.8
17: 7	211	-1.0986	21.4822	0.12787	16.6	17.4	17.8	19.0	19.8	21.5	23.5	24.8	27.3	28.4	30.8
17: 8	212	-1.0843	21.5285	0.12797	16.6	17.4	17.8	19.0	19.8	21.5	23.6	24.8	27.3	28.5	30.8
17: 9	213	-1.0699	21.5742	0.12807	16.7	17.4	17.8	19.1	19.9	21.6	23.6	24.9	27.4	28.5	30.9
17:10	214	-1.0553	21.6193	0.12816	16.7	17.4	17.9	19.1	19.9	21.6	23.7	24.9	27.4	28.6	30.9
17:11	215	-1.0407	21.6638	0.12826	16.7	17.5	17.9	19.1	19.9	21.7	23.7	25.0	27.5	28.6	31.0
18: 0	216	-1.0260	21.7077	0.12836	16.7	17.5	17.9	19.2	20.0	21.7	23.8	25.0	27.5	28.6	31.0
18: 1	217	-1.0112	21.7510	0.12845	16.8	17.5	18.0	19.2	20.0	21.8	23.8	25.1	27.6	28.7	31.0
18: 2	218	-0.9962	21.7937	0.12855	16.8	17.5	18.0	19.2	20.1	21.8	23.9	25.1	27.6	28.7	31.1
18: 3	219	-0.9812	21.8358	0.12864	16.8	17.6	18.0	19.3	20.1	21.8	23.9	25.2	27.7	28.8	31.1
18: 4	220	-0.9661	21.8773	0.12874	16.8	17.6	18.0	19.3	20.1	21.9	24.0	25.2	27.7	28.8	31.2
18: 5	221	-0.9509	21.9182	0.12883	16.8	17.6	18.1	19.3	20.2	21.9	24.0	25.3	27.8	28.9	31.2
18: 6	222	-0.9356	21.9585	0.12893	16.9	17.6	18.1	19.4	20.2	22.0	24.0	25.3	27.8	28.9	31.2
18: 7	223	-0.9202	21.9982	0.12902	16.9	17.7	18.1	19.4	20.2	22.0	24.1	25.4	27.9	29.0	31.3
18: 8	224	-0.9048	22.0374	0.12911	16.9	17.7	18.1	19.4	20.3	22.0	24.1	25.4	27.9	29.0	31.3
18: 9	225	-0.8892	22.0760	0.12920	16.9	17.7	18.2	19.5	20.3	22.1	24.2	25.5	27.9	29.0	31.3
18:10	226	-0.8735	22.1140	0.12930	16.9	17.7	18.2	19.5	20.3	22.1	24.2	25.5	28.0	29.1	31.3
18:11	227	-0.8578	22.1514	0.12939	16.9	17.8	18.2	19.5	20.4	22.2	24.3	25.5	28.0	29.1	31.4
19: 0	228	-0.8419	22.1883	0.12948	17.0	17.8	18.2	19.5	20.4	22.2	24.3	25.6	28.1	29.1	31.4

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