

Mid-upper arm circumference-for-age BOYS (5 to 19 years)

Year:Month	Month	Z Scores (MUAC in cm)									
		L	M	S	-3	-2	-1	0	+1	+2	+3
5 : 0	60	-0.72895	16.51891	0.08670	13.0	14.0	15.2	16.5	18.1	19.9	22.0
5 : 1	61	-0.75845	16.55158	0.08699	13.0	14.1	15.2	16.6	18.1	19.9	22.1
5 : 2	62	-0.78927	16.58562	0.08728	13.1	14.1	15.2	16.6	18.2	20.0	22.2
5 : 3	63	-0.82138	16.62121	0.08758	13.1	14.1	15.3	16.6	18.2	20.1	22.3
5 : 4	64	-0.85473	16.65854	0.08789	13.1	14.1	15.3	16.7	18.3	20.2	22.5
5 : 5	65	-0.88928	16.69781	0.08819	13.2	14.2	15.3	16.7	18.3	20.2	22.6
5 : 6	66	-0.92496	16.73915	0.08851	13.2	14.2	15.4	16.7	18.4	20.3	22.7
5 : 7	67	-0.96164	16.78248	0.08882	13.2	14.2	15.4	16.8	18.4	20.4	22.8
5 : 8	68	-0.99919	16.82768	0.08915	13.3	14.3	15.5	16.8	18.5	20.5	23.0
5 : 9	69	-1.03745	16.87463	0.08948	13.3	14.3	15.5	16.9	18.5	20.6	23.1
5 : 10	70	-1.07629	16.92319	0.08981	13.4	14.4	15.5	16.9	18.6	20.7	23.3
5 : 11	71	-1.11556	16.97324	0.09015	13.4	14.4	15.6	17.0	18.7	20.8	23.4
6 : 0	72	-1.15511	17.02466	0.09049	13.4	14.4	15.6	17.0	18.7	20.9	23.6
6 : 1	73	-1.19480	17.07731	0.09084	13.5	14.5	15.7	17.1	18.8	21.0	23.7
6 : 2	74	-1.23449	17.13106	0.09120	13.5	14.5	15.7	17.1	18.9	21.1	23.9
6 : 3	75	-1.27403	17.18581	0.09156	13.6	14.6	15.8	17.2	18.9	21.2	24.1
6 : 4	76	-1.31328	17.24140	0.09193	13.6	14.6	15.8	17.2	19.0	21.3	24.3
6 : 5	77	-1.35210	17.29773	0.09231	13.7	14.7	15.9	17.3	19.1	21.4	24.5
6 : 6	78	-1.39034	17.35466	0.09269	13.7	14.7	15.9	17.4	19.2	21.5	24.7
6 : 7	79	-1.42785	17.41207	0.09308	13.8	14.8	16.0	17.4	19.2	21.6	24.9
6 : 8	80	-1.46450	17.46982	0.09347	13.8	14.8	16.0	17.5	19.3	21.7	25.1
6 : 9	81	-1.50018	17.52784	0.09388	13.9	14.9	16.1	17.5	19.4	21.9	25.3
6 : 10	82	-1.53485	17.58607	0.09428	13.9	14.9	16.1	17.6	19.5	22.0	25.5
6 : 11	83	-1.56850	17.64449	0.09470	13.9	14.9	16.2	17.6	19.5	22.1	25.7
7 : 0	84	-1.60108	17.70307	0.09512	14.0	15.0	16.2	17.7	19.6	22.2	25.9
7 : 1	85	-1.63258	17.76178	0.09555	14.0	15.0	16.3	17.8	19.7	22.3	26.1
7 : 2	86	-1.66297	17.82059	0.09598	14.1	15.1	16.3	17.8	19.8	22.5	26.4
7 : 3	87	-1.69222	17.87946	0.09642	14.1	15.1	16.4	17.9	19.9	22.6	26.6
7 : 4	88	-1.72030	17.93836	0.09687	14.2	15.2	16.4	17.9	19.9	22.7	26.8
7 : 5	89	-1.74719	17.99727	0.09732	14.2	15.2	16.5	18.0	20.0	22.8	27.1
7 : 6	90	-1.77285	18.05615	0.09778	14.3	15.3	16.5	18.1	20.1	23.0	27.3
7 : 7	91	-1.79727	18.11498	0.09824	14.3	15.3	16.5	18.1	20.2	23.1	27.6
7 : 8	92	-1.82040	18.17371	0.09871	14.3	15.4	16.6	18.2	20.3	23.2	27.8
7 : 9	93	-1.84224	18.23233	0.09918	14.4	15.4	16.6	18.2	20.3	23.3	28.1
7 : 10	94	-1.86274	18.29080	0.09966	14.4	15.4	16.7	18.3	20.4	23.5	28.3
7 : 11	95	-1.88189	18.34908	0.10014	14.5	15.5	16.7	18.3	20.5	23.6	28.6
8 : 0	96	-1.89968	18.40721	0.10063	14.5	15.5	16.8	18.4	20.6	23.7	28.8
8 : 1	97	-1.91614	18.46524	0.10112	14.5	15.6	16.8	18.5	20.7	23.8	29.1
8 : 2	98	-1.93128	18.52324	0.10162	14.6	15.6	16.9	18.5	20.7	24.0	29.3
8 : 3	99	-1.94514	18.58127	0.10211	14.6	15.6	16.9	18.6	20.8	24.1	29.6
8 : 4	100	-1.95773	18.63939	0.10262	14.6	15.7	17.0	18.6	20.9	24.2	29.9
8 : 5	101	-1.96908	18.69765	0.10312	14.7	15.7	17.0	18.7	21.0	24.4	30.1
8 : 6	102	-1.97920	18.75613	0.10363	14.7	15.8	17.1	18.8	21.1	24.5	30.4
8 : 7	103	-1.98813	18.81489	0.10414	14.8	15.8	17.1	18.8	21.1	24.6	30.7
8 : 8	104	-1.99588	18.87398	0.10465	14.8	15.8	17.2	18.9	21.2	24.7	30.9
8 : 9	105	-2.00248	18.93347	0.10516	14.8	15.9	17.2	18.9	21.3	24.9	31.2
8 : 10	106	-2.00795	18.99342	0.10568	14.9	15.9	17.3	19.0	21.4	25.0	31.4
8 : 11	107	-2.01231	19.05389	0.10619	14.9	16.0	17.3	19.1	21.5	25.1	31.7
9 : 0	108	-2.01558	19.11495	0.10671	14.9	16.0	17.4	19.1	21.6	25.3	32.0
9 : 1	109	-2.01780	19.17665	0.10722	15.0	16.0	17.4	19.2	21.6	25.4	32.2
9 : 2	110	-2.01897	19.23906	0.10774	15.0	16.1	17.5	19.2	21.7	25.5	32.5
9 : 3	111	-2.01912	19.30221	0.10825	15.0	16.1	17.5	19.3	21.8	25.7	32.7
9 : 4	112	-2.01828	19.36613	0.10877	15.1	16.2	17.6	19.4	21.9	25.8	33.0
9 : 5	113	-2.01647	19.43088	0.10928	15.1	16.2	17.6	19.4	22.0	25.9	33.2
9 : 6	114	-2.01371	19.49646	0.10979	15.1	16.3	17.7	19.5	22.1	26.1	33.5
9 : 7	115	-2.01004	19.56293	0.11029	15.2	16.3	17.7	19.6	22.2	26.2	33.7
9 : 8	116	-2.00546	19.63031	0.11080	15.2	16.3	17.8	19.6	22.3	26.3	33.9
9 : 9	117	-2.00000	19.69863	0.11130	15.3	16.4	17.8	19.7	22.3	26.4	34.2

Year:Month	Month	Z Scores (MUAC in cm)									
		L	M	S	-3	-2	-1	0	+1	+2	+3
9 : 10	118	-1.99370	19.76794	0.11179	15.3	16.4	17.9	19.8	22.4	26.6	34.4
9 : 11	119	-1.98657	19.83825	0.11228	15.3	16.5	17.9	19.8	22.5	26.7	34.6
10 : 0	120	-1.97863	19.90962	0.11277	15.4	16.5	18.0	19.9	22.6	26.8	34.8
10 : 1	121	-1.96991	19.98207	0.11325	15.4	16.6	18.0	20.0	22.7	27.0	35.0
10 : 2	122	-1.96043	20.05563	0.11372	15.4	16.6	18.1	20.1	22.8	27.1	35.2
10 : 3	123	-1.95022	20.13034	0.11419	15.5	16.7	18.2	20.1	22.9	27.2	35.4
10 : 4	124	-1.93930	20.20623	0.11465	15.5	16.7	18.2	20.2	23.0	27.4	35.6
10 : 5	125	-1.92770	20.28334	0.11510	15.6	16.8	18.3	20.3	23.1	27.5	35.8
10 : 6	126	-1.91544	20.36166	0.11554	15.6	16.8	18.3	20.4	23.2	27.6	36.0
10 : 7	127	-1.90255	20.44122	0.11597	15.7	16.9	18.4	20.4	23.3	27.8	36.1
10 : 8	128	-1.88906	20.52201	0.11640	15.7	16.9	18.5	20.5	23.4	27.9	36.3
10 : 9	129	-1.87501	20.60406	0.11681	15.7	17.0	18.5	20.6	23.5	28.0	36.5
10 : 10	130	-1.86041	20.68738	0.11721	15.8	17.0	18.6	20.7	23.6	28.1	36.6
10 : 11	131	-1.84530	20.77196	0.11761	15.8	17.1	18.7	20.8	23.7	28.3	36.7
11 : 0	132	-1.82971	20.85783	0.11798	15.9	17.1	18.7	20.9	23.8	28.4	36.9
11 : 1	133	-1.81367	20.94498	0.11835	15.9	17.2	18.8	20.9	23.9	28.5	37.0
11 : 2	134	-1.79720	21.03344	0.11870	16.0	17.3	18.9	21.0	24.0	28.7	37.1
11 : 3	135	-1.78034	21.12321	0.11904	16.0	17.3	19.0	21.1	24.1	28.8	37.2
11 : 4	136	-1.76312	21.21431	0.11937	16.1	17.4	19.0	21.2	24.3	28.9	37.4
11 : 5	137	-1.74555	21.30673	0.11967	16.1	17.4	19.1	21.3	24.4	29.0	37.5
11 : 6	138	-1.72768	21.40050	0.11997	16.2	17.5	19.2	21.4	24.5	29.2	37.6
11 : 7	139	-1.70954	21.49562	0.12024	16.2	17.6	19.3	21.5	24.6	29.3	37.7
11 : 8	140	-1.69114	21.59208	0.12050	16.3	17.6	19.3	21.6	24.7	29.4	37.8
11 : 9	141	-1.67254	21.68983	0.12075	16.3	17.7	19.4	21.7	24.8	29.6	37.8
11 : 10	142	-1.65377	21.78883	0.12097	16.4	17.8	19.5	21.8	24.9	29.7	37.9
11 : 11	143	-1.63486	21.88905	0.12118	16.5	17.8	19.6	21.9	25.1	29.8	38.0
12 : 0	144	-1.61586	21.99043	0.12137	16.5	17.9	19.7	22.0	25.2	29.9	38.1
12 : 1	145	-1.59680	22.09294	0.12154	16.6	18.0	19.8	22.1	25.3	30.1	38.2
12 : 2	146	-1.57771	22.19654	0.12169	16.6	18.1	19.9	22.2	25.4	30.2	38.2
12 : 3	147	-1.55864	22.30118	0.12183	16.7	18.1	19.9	22.3	25.5	30.3	38.3
12 : 4	148	-1.53962	22.40682	0.12194	16.8	18.2	20.0	22.4	25.6	30.4	38.4
12 : 5	149	-1.52070	22.51341	0.12204	16.8	18.3	20.1	22.5	25.8	30.5	38.4
12 : 6	150	-1.50190	22.62092	0.12212	16.9	18.4	20.2	22.6	25.9	30.7	38.5
12 : 7	151	-1.48326	22.72931	0.12218	17.0	18.5	20.3	22.7	26.0	30.8	38.6
12 : 8	152	-1.46482	22.83852	0.12221	17.0	18.5	20.4	22.8	26.1	30.9	38.6
12 : 9	153	-1.44663	22.94852	0.12223	17.1	18.6	20.5	22.9	26.3	31.0	38.7
12 : 10	154	-1.42870	23.05927	0.12223	17.2	18.7	20.6	23.1	26.4	31.1	38.8
12 : 11	155	-1.41108	23.17069	0.12221	17.2	18.8	20.7	23.2	26.5	31.3	38.8
13 : 0	156	-1.39378	23.28271	0.12217	17.3	18.9	20.8	23.3	26.6	31.4	38.9
13 : 1	157	-1.37683	23.39523	0.12211	17.4	19.0	20.9	23.4	26.7	31.5	39.0
13 : 2	158	-1.36024	23.50818	0.12204	17.5	19.0	21.0	23.5	26.9	31.6	39.0
13 : 3	159	-1.34404	23.62148	0.12194	17.5	19.1	21.1	23.6	27.0	31.7	39.1
13 : 4	160	-1.32825	23.73504	0.12183	17.6	19.2	21.2	23.7	27.1	31.9	39.1
13 : 5	161	-1.31289	23.84879	0.12170	17.7	19.3	21.3	23.8	27.2	32.0	39.2
13 : 6	162	-1.29798	23.96263	0.12155	17.8	19.4	21.4	24.0	27.4	32.1	39.3
13 : 7	163	-1.28355	24.07649	0.12138	17.9	19.5	21.5	24.1	27.5	32.2	39.3
13 : 8	164	-1.26961	24.19029	0.12120	17.9	19.6	21.6	24.2	27.6	32.3	39.4
13 : 9	165	-1.25619	24.30394	0.12101	18.0	19.7	21.7	24.3	27.7	32.4	39.5
13 : 10	166	-1.24331	24.41736	0.12079	18.1	19.8	21.8	24.4	27.8	32.5	39.5
13 : 11	167	-1.23099	24.53048	0.12057	18.2	19.9	21.9	24.5	28.0	32.7	39.6
14 : 0	168	-1.21926	24.64320	0.12032	18.3	20.0	22.0	24.6	28.1	32.8	39.7
14 : 1	169	-1.20812	24.75546	0.12007	18.4	20.0	22.1	24.8	28.2	32.9	39.7
14 : 2	170	-1.19761	24.86720	0.11980	18.4	20.1	22.2	24.9	28.3	33.0	39.8
14 : 3	171	-1.18774	24.97838	0.11952	18.5	20.2	22.3	25.0	28.4	33.1	39.9
14 : 4	172	-1.17852	25.08897	0.11922	18.6	20.3	22.4	25.1	28.5	33.2	39.9
14 : 5	173	-1.16998	25.19891	0.11892	18.7	20.4	22.5	25.2	28.6	33.3	40.0
14 : 6	174	-1.16213	25.30817	0.11860	18.8	20.5	22.6	25.3	28.8	33.4	40.1
14 : 7	175	-1.15499	25.41670	0.11828	18.9	20.6	22.7	25.4	28.9	33.5	40.1
14 : 8	176	-1.14858	25.52447	0.11795	19.0	20.7	22.9	25.5	29.0	33.6	40.2

Year:Month	Month	L	M	S	Z Scores (MUAC in cm)						
					-3	-2	-1	0	+1	+2	+3
14 : 9	177	-1.14291	25.63143	0.11761	19.1	20.8	23.0	25.6	29.1	33.7	40.3
14 : 10	178	-1.13800	25.73753	0.11726	19.1	20.9	23.1	25.7	29.2	33.8	40.3
14 : 11	179	-1.13388	25.84274	0.11691	19.2	21.0	23.2	25.8	29.3	33.9	40.4
15 : 0	180	-1.13055	25.94701	0.11655	19.3	21.1	23.3	25.9	29.4	34.0	40.5
15 : 1	181	-1.12804	26.05030	0.11619	19.4	21.2	23.4	26.1	29.5	34.1	40.6
15 : 2	182	-1.12636	26.15257	0.11583	19.5	21.3	23.5	26.2	29.6	34.2	40.6
15 : 3	183	-1.12553	26.25377	0.11546	19.6	21.4	23.6	26.3	29.7	34.3	40.7
15 : 4	184	-1.12555	26.35388	0.11510	19.7	21.5	23.7	26.4	29.8	34.4	40.8
15 : 5	185	-1.12638	26.45289	0.11473	19.8	21.6	23.7	26.5	29.9	34.5	40.9
15 : 6	186	-1.12800	26.55079	0.11436	19.9	21.7	23.8	26.6	30.0	34.6	41.0
15 : 7	187	-1.13037	26.64757	0.11399	20.0	21.8	23.9	26.6	30.1	34.7	41.1
15 : 8	188	-1.13345	26.74322	0.11362	20.0	21.8	24.0	26.7	30.2	34.8	41.1
15 : 9	189	-1.13722	26.83773	0.11326	20.1	21.9	24.1	26.8	30.3	34.9	41.2
15 : 10	190	-1.14163	26.93110	0.11290	20.2	22.0	24.2	26.9	30.4	35.0	41.3
15 : 11	191	-1.14666	27.02332	0.11254	20.3	22.1	24.3	27.0	30.5	35.1	41.4
16 : 0	192	-1.15227	27.11438	0.11219	20.4	22.2	24.4	27.1	30.6	35.2	41.5
16 : 1	193	-1.15843	27.20427	0.11184	20.5	22.3	24.5	27.2	30.7	35.2	41.6
16 : 2	194	-1.16511	27.29299	0.11150	20.6	22.4	24.6	27.3	30.8	35.3	41.7
16 : 3	195	-1.17226	27.38052	0.11116	20.7	22.5	24.7	27.4	30.8	35.4	41.8
16 : 4	196	-1.17986	27.46686	0.11083	20.7	22.6	24.7	27.5	30.9	35.5	41.9
16 : 5	197	-1.18788	27.55200	0.11051	20.8	22.6	24.8	27.6	31.0	35.6	42.0
16 : 6	198	-1.19627	27.63593	0.11020	20.9	22.7	24.9	27.6	31.1	35.7	42.1
16 : 7	199	-1.20499	27.71865	0.10990	21.0	22.8	25.0	27.7	31.2	35.8	42.2
16 : 8	200	-1.21395	27.80016	0.10960	21.1	22.9	25.1	27.8	31.3	35.9	42.3
16 : 9	201	-1.22310	27.88048	0.10932	21.2	23.0	25.2	27.9	31.4	36.0	42.4
16 : 10	202	-1.23235	27.95959	0.10904	21.2	23.0	25.2	28.0	31.4	36.0	42.5
16 : 11	203	-1.24164	28.03751	0.10878	21.3	23.1	25.3	28.0	31.5	36.1	42.6
17 : 0	204	-1.25090	28.11425	0.10852	21.4	23.2	25.4	28.1	31.6	36.2	42.7
17 : 1	205	-1.26004	28.18980	0.10827	21.5	23.3	25.5	28.2	31.7	36.3	42.8
17 : 2	206	-1.26901	28.26416	0.10803	21.5	23.4	25.5	28.3	31.7	36.4	42.9
17 : 3	207	-1.27772	28.33735	0.10780	21.6	23.4	25.6	28.3	31.8	36.5	43.0
17 : 4	208	-1.28612	28.40937	0.10758	21.7	23.5	25.7	28.4	31.9	36.5	43.1
17 : 5	209	-1.29412	28.48021	0.10737	21.8	23.6	25.8	28.5	32.0	36.6	43.2
17 : 6	210	-1.30165	28.54989	0.10716	21.8	23.6	25.8	28.5	32.0	36.7	43.3
17 : 7	211	-1.30865	28.61841	0.10697	21.9	23.7	25.9	28.6	32.1	36.8	43.4
17 : 8	212	-1.31504	28.68577	0.10679	22.0	23.8	26.0	28.7	32.2	36.9	43.5
17 : 9	213	-1.32075	28.75198	0.10661	22.0	23.8	26.0	28.8	32.3	36.9	43.6
17 : 10	214	-1.32576	28.81703	0.10645	22.1	23.9	26.1	28.8	32.3	37.0	43.7
17 : 11	215	-1.33005	28.88093	0.10629	22.1	24.0	26.1	28.9	32.4	37.1	43.7
18 : 0	216	-1.33359	28.94368	0.10614	22.2	24.0	26.2	28.9	32.5	37.1	43.8
18 : 1	217	-1.33637	29.00529	0.10600	22.3	24.1	26.3	29.0	32.5	37.2	43.9
18 : 2	218	-1.33836	29.06574	0.10587	22.3	24.1	26.3	29.1	32.6	37.3	44.0
18 : 3	219	-1.33955	29.12505	0.10575	22.4	24.2	26.4	29.1	32.6	37.3	44.0
18 : 4	220	-1.33992	29.18321	0.10563	22.4	24.2	26.4	29.2	32.7	37.4	44.1
18 : 5	221	-1.33944	29.24023	0.10552	22.5	24.3	26.5	29.2	32.8	37.5	44.1
18 : 6	222	-1.33810	29.29611	0.10542	22.5	24.3	26.5	29.3	32.8	37.5	44.2
18 : 7	223	-1.33587	29.35084	0.10533	22.5	24.4	26.6	29.4	32.9	37.6	44.2
18 : 8	224	-1.33274	29.40443	0.10524	22.6	24.4	26.6	29.4	32.9	37.6	44.3
18 : 9	225	-1.32869	29.45689	0.10516	22.6	24.5	26.7	29.5	33.0	37.7	44.3
18 : 10	226	-1.32369	29.50820	0.10508	22.7	24.5	26.7	29.5	33.0	37.7	44.4
18 : 11	227	-1.31773	29.55838	0.10501	22.7	24.6	26.8	29.6	33.1	37.8	44.4
19 : 0	228	-1.31080	29.60742	0.10495	22.7	24.6	26.8	29.6	33.1	37.8	44.4

Mid-upper arm circumference-for-age GIRLS (5 to 19 years)

5 to 19 years					Z Scores (MUAC in cm)						
Year:Month	Months	L	M	S	-3	-2	-1	0	+1	+2	+3
5 : 0	60	-0.49271	16.81684	0.09338	12.9	14.1	15.3	16.8	18.5	20.5	22.7
5 : 1	61	-0.50464	16.86234	0.09380	13.0	14.1	15.4	16.9	18.6	20.5	22.8
5 : 2	62	-0.51656	16.90778	0.09423	13.0	14.1	15.4	16.9	18.6	20.6	23.0
5 : 3	63	-0.52844	16.95319	0.09467	13.0	14.2	15.5	17.0	18.7	20.7	23.1
5 : 4	64	-0.54030	16.99859	0.09512	13.0	14.2	15.5	17.0	18.7	20.8	23.2
5 : 5	65	-0.55212	17.04400	0.09557	13.1	14.2	15.5	17.0	18.8	20.9	23.3
5 : 6	66	-0.56392	17.08945	0.09603	13.1	14.2	15.6	17.1	18.9	20.9	23.4
5 : 7	67	-0.57568	17.13499	0.09649	13.1	14.3	15.6	17.1	18.9	21.0	23.5
5 : 8	68	-0.58740	17.18065	0.09696	13.1	14.3	15.6	17.2	19.0	21.1	23.6
5 : 9	69	-0.59908	17.22647	0.09744	13.2	14.3	15.7	17.2	19.0	21.2	23.8
5 : 10	70	-0.61073	17.27250	0.09793	13.2	14.4	15.7	17.3	19.1	21.3	23.9
5 : 11	71	-0.62233	17.31876	0.09842	13.2	14.4	15.7	17.3	19.2	21.4	24.0
6 : 0	72	-0.63388	17.36531	0.09892	13.2	14.4	15.8	17.4	19.2	21.5	24.1
6 : 1	73	-0.64539	17.41218	0.09943	13.3	14.4	15.8	17.4	19.3	21.5	24.3
6 : 2	74	-0.65684	17.45942	0.09995	13.3	14.5	15.8	17.5	19.4	21.6	24.4
6 : 3	75	-0.66825	17.50705	0.10047	13.3	14.5	15.9	17.5	19.4	21.7	24.5
6 : 4	76	-0.67959	17.55514	0.10100	13.3	14.5	15.9	17.6	19.5	21.8	24.6
6 : 5	77	-0.69089	17.60370	0.10154	13.4	14.6	16.0	17.6	19.6	21.9	24.8
6 : 6	78	-0.70212	17.65279	0.10208	13.4	14.6	16.0	17.7	19.6	22.0	24.9
6 : 7	79	-0.71329	17.70244	0.10263	13.4	14.6	16.0	17.7	19.7	22.1	25.1
6 : 8	80	-0.72439	17.75270	0.10319	13.4	14.6	16.1	17.8	19.8	22.2	25.2
6 : 9	81	-0.73543	17.80359	0.10375	13.5	14.7	16.1	17.8	19.8	22.3	25.4
6 : 10	82	-0.74641	17.85514	0.10433	13.5	14.7	16.1	17.9	19.9	22.4	25.5
6 : 11	83	-0.75731	17.90734	0.10490	13.5	14.7	16.2	17.9	20.0	22.5	25.7
7 : 0	84	-0.76814	17.96022	0.10549	13.5	14.8	16.2	18.0	20.0	22.6	25.8
7 : 1	85	-0.77891	18.01378	0.10608	13.6	14.8	16.3	18.0	20.1	22.7	26.0
7 : 2	86	-0.78960	18.06804	0.10667	13.6	14.8	16.3	18.1	20.2	22.8	26.1
7 : 3	87	-0.80022	18.12300	0.10727	13.6	14.9	16.4	18.1	20.3	22.9	26.3
7 : 4	88	-0.81076	18.17868	0.10788	13.6	14.9	16.4	18.2	20.4	23.0	26.5
7 : 5	89	-0.82123	18.23510	0.10848	13.7	14.9	16.4	18.2	20.4	23.2	26.6
7 : 6	90	-0.83162	18.29225	0.10909	13.7	15.0	16.5	18.3	20.5	23.3	26.8
7 : 7	91	-0.84193	18.35016	0.10971	13.7	15.0	16.5	18.4	20.6	23.4	27.0
7 : 8	92	-0.85217	18.40883	0.11033	13.8	15.0	16.6	18.4	20.7	23.5	27.2
7 : 9	93	-0.86233	18.46827	0.11094	13.8	15.1	16.6	18.5	20.8	23.6	27.3
7 : 10	94	-0.87240	18.52850	0.11157	13.8	15.1	16.7	18.5	20.8	23.7	27.5
7 : 11	95	-0.88239	18.58953	0.11219	13.8	15.1	16.7	18.6	20.9	23.9	27.7
8 : 0	96	-0.89230	18.65136	0.11281	13.9	15.2	16.8	18.7	21.0	24.0	27.9
8 : 1	97	-0.90213	18.71396	0.11343	13.9	15.2	16.8	18.7	21.1	24.1	28.1
8 : 2	98	-0.91187	18.77734	0.11405	13.9	15.3	16.8	18.8	21.2	24.2	28.3
8 : 3	99	-0.92153	18.84147	0.11467	14.0	15.3	16.9	18.8	21.3	24.4	28.5
8 : 4	100	-0.93111	18.90633	0.11529	14.0	15.3	16.9	18.9	21.4	24.5	28.7
8 : 5	101	-0.94061	18.97192	0.11590	14.0	15.4	17.0	19.0	21.4	24.6	28.9
8 : 6	102	-0.95002	19.03822	0.11651	14.1	15.4	17.0	19.0	21.5	24.8	29.1
8 : 7	103	-0.95935	19.10522	0.11712	14.1	15.5	17.1	19.1	21.6	24.9	29.3
8 : 8	104	-0.96860	19.17289	0.11772	14.2	15.5	17.2	19.2	21.7	25.0	29.5
8 : 9	105	-0.97776	19.24123	0.11831	14.2	15.6	17.2	19.2	21.8	25.2	29.8
8 : 10	106	-0.98685	19.31023	0.11890	14.2	15.6	17.3	19.3	21.9	25.3	30.0
8 : 11	107	-0.99585	19.37986	0.11948	14.3	15.6	17.3	19.4	22.0	25.5	30.2
9 : 0	108	-1.00477	19.45011	0.12006	14.3	15.7	17.4	19.5	22.1	25.6	30.4
9 : 1	109	-1.01360	19.52097	0.12062	14.3	15.7	17.4	19.5	22.2	25.7	30.6
9 : 2	110	-1.02236	19.59243	0.12117	14.4	15.8	17.5	19.6	22.3	25.9	30.9
9 : 3	111	-1.03103	19.66448	0.12171	14.4	15.8	17.5	19.7	22.4	26.0	31.1
9 : 4	112	-1.03963	19.73712	0.12224	14.5	15.9	17.6	19.7	22.5	26.2	31.3
9 : 5	113	-1.04814	19.81035	0.12276	14.5	15.9	17.6	19.8	22.6	26.3	31.6
9 : 6	114	-1.05657	19.88418	0.12327	14.6	16.0	17.7	19.9	22.7	26.5	31.8
9 : 7	115	-1.06493	19.95861	0.12376	14.6	16.0	17.8	20.0	22.8	26.6	32.0
9 : 8	116	-1.07321	20.03364	0.12424	14.6	16.1	17.8	20.0	22.9	26.7	32.2
9 : 9	117	-1.08141	20.10928	0.12471	14.7	16.1	17.9	20.1	23.0	26.9	32.5

5 to 19 years					Z Scores (MUAC in cm)							
Year:Month	Months	L	M	S	-3	-2	-1	0	+1	+2	+3	
9 : 10	118	-1.08954	20.18551	0.12515	14.7	16.2	18.0	20.2	23.1	27.0	32.7	
9 : 11	119	-1.09759	20.26235	0.12559	14.8	16.2	18.0	20.3	23.2	27.2	32.9	
10 : 0	120	-1.10557	20.33979	0.12601	14.8	16.3	18.1	20.3	23.3	27.3	33.2	
10 : 1	121	-1.11347	20.41785	0.12641	14.9	16.3	18.1	20.4	23.4	27.5	33.4	
10 : 2	122	-1.12131	20.49651	0.12679	14.9	16.4	18.2	20.5	23.5	27.6	33.7	
10 : 3	123	-1.12907	20.57578	0.12716	15.0	16.5	18.3	20.6	23.6	27.8	33.9	
10 : 4	124	-1.13676	20.65567	0.12751	15.0	16.5	18.3	20.7	23.7	27.9	34.1	
10 : 5	125	-1.14439	20.73616	0.12783	15.1	16.6	18.4	20.7	23.8	28.1	34.4	
10 : 6	126	-1.15194	20.81724	0.12814	15.1	16.6	18.5	20.8	23.9	28.2	34.6	
10 : 7	127	-1.15943	20.89887	0.12843	15.2	16.7	18.5	20.9	24.0	28.4	34.8	
10 : 8	128	-1.16685	20.98103	0.12870	15.3	16.8	18.6	21.0	24.1	28.5	35.1	
10 : 9	129	-1.17420	21.06370	0.12895	15.3	16.8	18.7	21.1	24.2	28.6	35.3	
10 : 10	130	-1.18149	21.14683	0.12918	15.4	16.9	18.8	21.1	24.3	28.8	35.5	
10 : 11	131	-1.18871	21.23041	0.12939	15.4	16.9	18.8	21.2	24.4	28.9	35.7	
11 : 0	132	-1.19587	21.31441	0.12958	15.5	17.0	18.9	21.3	24.5	29.1	36.0	
11 : 1	133	-1.20297	21.39880	0.12976	15.5	17.1	19.0	21.4	24.6	29.2	36.2	
11 : 2	134	-1.21000	21.48355	0.12991	15.6	17.1	19.0	21.5	24.7	29.3	36.4	
11 : 3	135	-1.21697	21.56863	0.13004	15.7	17.2	19.1	21.6	24.8	29.5	36.6	
11 : 4	136	-1.22389	21.65401	0.13016	15.7	17.3	19.2	21.7	25.0	29.6	36.8	
11 : 5	137	-1.23074	21.73968	0.13025	15.8	17.3	19.3	21.7	25.1	29.8	37.0	
11 : 6	138	-1.23753	21.82559	0.13032	15.9	17.4	19.3	21.8	25.2	29.9	37.2	
11 : 7	139	-1.24427	21.91173	0.13038	15.9	17.5	19.4	21.9	25.3	30.0	37.4	
11 : 8	140	-1.25095	21.99804	0.13041	16.0	17.6	19.5	22.0	25.4	30.2	37.6	
11 : 9	141	-1.25757	22.08447	0.13043	16.1	17.6	19.6	22.1	25.5	30.3	37.8	
11 : 10	142	-1.26414	22.17095	0.13043	16.1	17.7	19.6	22.2	25.6	30.4	38.0	
11 : 11	143	-1.27064	22.25742	0.13041	16.2	17.8	19.7	22.3	25.7	30.6	38.2	
12 : 0	144	-1.27709	22.34380	0.13037	16.3	17.8	19.8	22.3	25.8	30.7	38.4	
12 : 1	145	-1.28349	22.43004	0.13032	16.3	17.9	19.9	22.4	25.9	30.8	38.6	
12 : 2	146	-1.28983	22.51607	0.13025	16.4	18.0	20.0	22.5	26.0	30.9	38.8	
12 : 3	147	-1.29611	22.60182	0.13017	16.5	18.1	20.0	22.6	26.1	31.1	39.0	
12 : 4	148	-1.30233	22.68723	0.13008	16.5	18.1	20.1	22.7	26.2	31.2	39.1	
12 : 5	149	-1.30850	22.77224	0.12997	16.6	18.2	20.2	22.8	26.3	31.3	39.3	
12 : 6	150	-1.31461	22.85678	0.12985	16.7	18.3	20.3	22.9	26.4	31.4	39.5	
12 : 7	151	-1.32067	22.94077	0.12971	16.8	18.4	20.4	22.9	26.4	31.5	39.6	
12 : 8	152	-1.32667	23.02417	0.12957	16.8	18.4	20.4	23.0	26.5	31.6	39.8	
12 : 9	153	-1.33261	23.10690	0.12941	16.9	18.5	20.5	23.1	26.6	31.7	39.9	
12 : 10	154	-1.33850	23.18890	0.12925	17.0	18.6	20.6	23.2	26.7	31.8	40.1	
12 : 11	155	-1.34434	23.27013	0.12907	17.0	18.6	20.7	23.3	26.8	32.0	40.2	
13 : 0	156	-1.35012	23.35053	0.12889	17.1	18.7	20.7	23.4	26.9	32.1	40.3	
13 : 1	157	-1.35584	23.43008	0.12870	17.2	18.8	20.8	23.4	27.0	32.2	40.5	
13 : 2	158	-1.36150	23.50874	0.12850	17.2	18.9	20.9	23.5	27.1	32.3	40.6	
13 : 3	159	-1.36711	23.58647	0.12830	17.3	18.9	21.0	23.6	27.2	32.4	40.7	
13 : 4	160	-1.37265	23.66323	0.12809	17.4	19.0	21.0	23.7	27.2	32.4	40.9	
13 : 5	161	-1.37814	23.73898	0.12787	17.4	19.1	21.1	23.7	27.3	32.5	41.0	
13 : 6	162	-1.38357	23.81369	0.12766	17.5	19.1	21.2	23.8	27.4	32.6	41.1	
13 : 7	163	-1.38894	23.88732	0.12744	17.6	19.2	21.2	23.9	27.5	32.7	41.2	
13 : 8	164	-1.39425	23.95982	0.12721	17.6	19.3	21.3	24.0	27.6	32.8	41.3	
13 : 9	165	-1.39950	24.03118	0.12699	17.7	19.3	21.4	24.0	27.6	32.9	41.4	
13 : 10	166	-1.40469	24.10133	0.12676	17.8	19.4	21.4	24.1	27.7	33.0	41.5	
13 : 11	167	-1.40982	24.17025	0.12653	17.8	19.5	21.5	24.2	27.8	33.1	41.6	
14 : 0	168	-1.41489	24.23790	0.12630	17.9	19.5	21.6	24.2	27.9	33.1	41.7	
14 : 1	169	-1.41989	24.30425	0.12608	18.0	19.6	21.6	24.3	27.9	33.2	41.8	
14 : 2	170	-1.42484	24.36928	0.12585	18.0	19.7	21.7	24.4	28.0	33.3	41.9	
14 : 3	171	-1.42971	24.43300	0.12563	18.1	19.7	21.8	24.4	28.1	33.4	42.0	
14 : 4	172	-1.43453	24.49541	0.12541	18.1	19.8	21.8	24.5	28.1	33.4	42.1	
14 : 5	173	-1.43928	24.55649	0.12519	18.2	19.8	21.9	24.6	28.2	33.5	42.2	
14 : 6	174	-1.44397	24.61626	0.12498	18.2	19.9	21.9	24.6	28.3	33.6	42.2	
14 : 7	175	-1.44859	24.67470	0.12476	18.3	19.9	22.0	24.7	28.3	33.6	42.3	
14 : 8	176	-1.45315	24.73182	0.12456	18.3	20.0	22.1	24.7	28.4	33.7	42.4	

5 to 19 years						Z Scores (MUAC in cm)						
Year:Month	Months	L	M	S	-3	-2	-1	0	+1	+2	+3	
14 : 9	177	-1.45764	24.78761	0.12436	18.4	20.0	22.1	24.8	28.4	33.8	42.5	
14 : 10	178	-1.46207	24.84208	0.12416	18.5	20.1	22.2	24.8	28.5	33.8	42.5	
14 : 11	179	-1.46642	24.89521	0.12397	18.5	20.1	22.2	24.9	28.5	33.9	42.6	
15 : 0	180	-1.47072	24.94702	0.12378	18.5	20.2	22.3	24.9	28.6	33.9	42.7	
15 : 1	181	-1.47494	24.99749	0.12360	18.6	20.2	22.3	25.0	28.7	34.0	42.8	
15 : 2	182	-1.47910	25.04663	0.12343	18.6	20.3	22.4	25.0	28.7	34.1	42.8	
15 : 3	183	-1.48319	25.09442	0.12326	18.7	20.3	22.4	25.1	28.8	34.1	42.9	
15 : 4	184	-1.48721	25.14089	0.12311	18.7	20.4	22.5	25.1	28.8	34.2	43.0	
15 : 5	185	-1.49116	25.18605	0.12296	18.8	20.4	22.5	25.2	28.9	34.2	43.0	
15 : 6	186	-1.49504	25.22993	0.12281	18.8	20.5	22.5	25.2	28.9	34.3	43.1	
15 : 7	187	-1.49886	25.27255	0.12268	18.9	20.5	22.6	25.3	28.9	34.3	43.2	
15 : 8	188	-1.50260	25.31393	0.12255	18.9	20.5	22.6	25.3	29.0	34.4	43.2	
15 : 9	189	-1.50628	25.35410	0.12243	18.9	20.6	22.7	25.4	29.0	34.4	43.3	
15 : 10	190	-1.50989	25.39309	0.12232	19.0	20.6	22.7	25.4	29.1	34.5	43.4	
15 : 11	191	-1.51343	25.43091	0.12222	19.0	20.7	22.7	25.4	29.1	34.5	43.4	
16 : 0	192	-1.51691	25.46760	0.12213	19.0	20.7	22.8	25.5	29.2	34.6	43.5	
16 : 1	193	-1.52031	25.50317	0.12204	19.1	20.7	22.8	25.5	29.2	34.6	43.5	
16 : 2	194	-1.52364	25.53766	0.12196	19.1	20.8	22.8	25.5	29.2	34.6	43.6	
16 : 3	195	-1.52691	25.57108	0.12189	19.1	20.8	22.9	25.6	29.3	34.7	43.7	
16 : 4	196	-1.53011	25.60346	0.12183	19.2	20.8	22.9	25.6	29.3	34.7	43.7	
16 : 5	197	-1.53324	25.63483	0.12177	19.2	20.8	22.9	25.6	29.3	34.8	43.8	
16 : 6	198	-1.53630	25.66520	0.12173	19.2	20.9	23.0	25.7	29.4	34.8	43.9	
16 : 7	199	-1.53930	25.69462	0.12169	19.2	20.9	23.0	25.7	29.4	34.9	43.9	
16 : 8	200	-1.54222	25.72310	0.12166	19.3	20.9	23.0	25.7	29.4	34.9	44.0	
16 : 9	201	-1.54508	25.75069	0.12164	19.3	20.9	23.0	25.8	29.5	34.9	44.1	
16 : 10	202	-1.54788	25.77741	0.12163	19.3	21.0	23.1	25.8	29.5	35.0	44.1	
16 : 11	203	-1.55061	25.80329	0.12162	19.3	21.0	23.1	25.8	29.5	35.0	44.2	
17 : 0	204	-1.55328	25.82837	0.12162	19.3	21.0	23.1	25.8	29.6	35.1	44.3	
17 : 1	205	-1.55588	25.85269	0.12163	19.4	21.0	23.1	25.9	29.6	35.1	44.3	
17 : 2	206	-1.55843	25.87626	0.12165	19.4	21.1	23.1	25.9	29.6	35.1	44.4	
17 : 3	207	-1.56091	25.89913	0.12167	19.4	21.1	23.2	25.9	29.6	35.2	44.5	
17 : 4	208	-1.56333	25.92133	0.12170	19.4	21.1	23.2	25.9	29.7	35.2	44.5	
17 : 5	209	-1.56569	25.94288	0.12174	19.4	21.1	23.2	25.9	29.7	35.3	44.6	
17 : 6	210	-1.56799	25.96382	0.12178	19.5	21.1	23.2	26.0	29.7	35.3	44.7	
17 : 7	211	-1.57024	25.98419	0.12183	19.5	21.1	23.2	26.0	29.7	35.3	44.7	
17 : 8	212	-1.57243	26.00401	0.12189	19.5	21.2	23.3	26.0	29.8	35.4	44.8	
17 : 9	213	-1.57456	26.02332	0.12195	19.5	21.2	23.3	26.0	29.8	35.4	44.9	
17 : 10	214	-1.57664	26.04213	0.12202	19.5	21.2	23.3	26.0	29.8	35.4	45.0	
17 : 11	215	-1.57867	26.06047	0.12210	19.5	21.2	23.3	26.1	29.8	35.5	45.0	
18 : 0	216	-1.58064	26.07835	0.12218	19.5	21.2	23.3	26.1	29.9	35.5	45.1	
18 : 1	217	-1.58256	26.09580	0.12227	19.5	21.2	23.3	26.1	29.9	35.6	45.2	
18 : 2	218	-1.58443	26.11283	0.12236	19.6	21.2	23.3	26.1	29.9	35.6	45.3	
18 : 3	219	-1.58625	26.12947	0.12246	19.6	21.2	23.4	26.1	29.9	35.6	45.3	
18 : 4	220	-1.58803	26.14572	0.12256	19.6	21.3	23.4	26.1	30.0	35.7	45.4	
18 : 5	221	-1.58975	26.16161	0.12267	19.6	21.3	23.4	26.2	30.0	35.7	45.5	
18 : 6	222	-1.59143	26.17717	0.12278	19.6	21.3	23.4	26.2	30.0	35.7	45.6	
18 : 7	223	-1.59307	26.19240	0.12290	19.6	21.3	23.4	26.2	30.0	35.8	45.7	
18 : 8	224	-1.59466	26.20732	0.12302	19.6	21.3	23.4	26.2	30.1	35.8	45.7	
18 : 9	225	-1.59621	26.22197	0.12315	19.6	21.3	23.4	26.2	30.1	35.9	45.8	
18 : 10	226	-1.59771	26.23634	0.12328	19.6	21.3	23.4	26.2	30.1	35.9	45.9	
18 : 11	227	-1.59918	26.25047	0.12342	19.6	21.3	23.5	26.3	30.1	35.9	46.0	
19 : 0	228	-1.60061	26.26437	0.12356	19.6	21.3	23.5	26.3	30.1	36.0	46.1	

Mid-upper arm circumference-for-age BOYS. (5 to 19 years)

5 to 19 years			Percentiles (MUAC in cm)												
Year : Month	Months	L	M	S	1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
5 : 0	60	-0.72895	16.5189	0.08670	13.7	14.2	14.4	15.1	15.6	16.5	17.5	18.1	19.2	19.7	20.5
5 : 1	61	-0.75845	16.5516	0.08699	13.7	14.2	14.4	15.2	15.6	16.6	17.6	18.2	19.3	19.7	20.6
5 : 2	62	-0.78927	16.5856	0.08728	13.7	14.2	14.5	15.2	15.7	16.6	17.6	18.2	19.3	19.8	20.7
5 : 3	63	-0.82138	16.6212	0.08758	13.8	14.2	14.5	15.2	15.7	16.6	17.7	18.3	19.4	19.8	20.8
5 : 4	64	-0.85473	16.6585	0.08789	13.8	14.3	14.5	15.3	15.7	16.7	17.7	18.3	19.4	19.9	20.9
5 : 5	65	-0.88928	16.6978	0.08819	13.8	14.3	14.6	15.3	15.8	16.7	17.7	18.4	19.5	20.0	20.9
5 : 6	66	-0.92496	16.7391	0.08851	13.9	14.3	14.6	15.3	15.8	16.7	17.8	18.4	19.6	20.1	21.0
5 : 7	67	-0.96164	16.7825	0.08882	13.9	14.4	14.6	15.4	15.8	16.8	17.8	18.5	19.6	20.1	21.1
5 : 8	68	-0.99919	16.8277	0.08915	13.9	14.4	14.7	15.4	15.9	16.8	17.9	18.5	19.7	20.2	21.2
5 : 9	69	-1.03745	16.8746	0.08948	14.0	14.4	14.7	15.4	15.9	16.9	18.0	18.6	19.8	20.3	21.3
5 : 10	70	-1.07629	16.9232	0.08981	14.0	14.5	14.8	15.5	16.0	16.9	18.0	18.7	19.9	20.4	21.4
5 : 11	71	-1.11556	16.9732	0.09015	14.1	14.5	14.8	15.5	16.0	17.0	18.1	18.7	20.0	20.5	21.6
6 : 0	72	-1.15511	17.0247	0.09049	14.1	14.6	14.8	15.6	16.1	17.0	18.1	18.8	20.0	20.6	21.7
6 : 1	73	-1.19480	17.0773	0.09084	14.1	14.6	14.9	15.6	16.1	17.1	18.2	18.9	20.1	20.7	21.8
6 : 2	74	-1.23449	17.1311	0.09120	14.2	14.7	14.9	15.7	16.1	17.1	18.3	18.9	20.2	20.8	21.9
6 : 3	75	-1.27403	17.1858	0.09156	14.2	14.7	15.0	15.7	16.2	17.2	18.3	19.0	20.3	20.9	22.0
6 : 4	76	-1.31328	17.2414	0.09193	14.3	14.8	15.0	15.8	16.2	17.2	18.4	19.1	20.4	21.0	22.2
6 : 5	77	-1.35210	17.2977	0.09231	14.3	14.8	15.1	15.8	16.3	17.3	18.5	19.2	20.5	21.1	22.3
6 : 6	78	-1.39034	17.3547	0.09269	14.4	14.8	15.1	15.9	16.3	17.4	18.5	19.2	20.6	21.2	22.4
6 : 7	79	-1.42785	17.4121	0.09308	14.4	14.9	15.2	15.9	16.4	17.4	18.6	19.3	20.7	21.3	22.6
6 : 8	80	-1.46450	17.4698	0.09347	14.5	14.9	15.2	16.0	16.4	17.5	18.7	19.4	20.8	21.4	22.7
6 : 9	81	-1.50018	17.5278	0.09388	14.5	15.0	15.3	16.0	16.5	17.5	18.7	19.5	20.9	21.5	22.8
6 : 10	82	-1.53485	17.5861	0.09428	14.6	15.0	15.3	16.1	16.6	17.6	18.8	19.5	21.0	21.6	23.0
6 : 11	83	-1.56850	17.6445	0.09470	14.6	15.1	15.3	16.1	16.6	17.6	18.9	19.6	21.1	21.7	23.1
7 : 0	84	-1.60108	17.7031	0.09512	14.6	15.1	15.4	16.2	16.7	17.7	18.9	19.7	21.2	21.9	23.3
7 : 1	85	-1.63258	17.7618	0.09555	14.7	15.2	15.4	16.2	16.7	17.8	19.0	19.8	21.3	22.0	23.4
7 : 2	86	-1.66297	17.8206	0.09598	14.7	15.2	15.5	16.3	16.8	17.8	19.1	19.9	21.4	22.1	23.6
7 : 3	87	-1.69222	17.8795	0.09642	14.8	15.3	15.5	16.3	16.8	17.9	19.2	19.9	21.5	22.2	23.7
7 : 4	88	-1.72030	17.9384	0.09687	14.8	15.3	15.6	16.4	16.9	17.9	19.2	20.0	21.6	22.3	23.9
7 : 5	89	-1.74719	17.9973	0.09732	14.9	15.4	15.6	16.4	16.9	18.0	19.3	20.1	21.7	22.4	24.0
7 : 6	90	-1.77285	18.0562	0.09778	14.9	15.4	15.7	16.4	17.0	18.1	19.4	20.2	21.8	22.6	24.2
7 : 7	91	-1.79727	18.1150	0.09824	15.0	15.4	15.7	16.5	17.0	18.1	19.4	20.3	21.9	22.7	24.3
7 : 8	92	-1.82040	18.1737	0.09871	15.0	15.5	15.8	16.5	17.1	18.2	19.5	20.4	22.0	22.8	24.5
7 : 9	93	-1.84224	18.2323	0.09918	15.0	15.5	15.8	16.6	17.1	18.2	19.6	20.4	22.1	22.9	24.6
7 : 10	94	-1.86274	18.2908	0.09966	15.1	15.6	15.9	16.6	17.2	18.3	19.7	20.5	22.2	23.0	24.8
7 : 11	95	-1.88189	18.3491	0.10014	15.1	15.6	15.9	16.7	17.2	18.3	19.7	20.6	22.3	23.2	24.9
8 : 0	96	-1.89968	18.4072	0.10063	15.2	15.7	15.9	16.7	17.3	18.4	19.8	20.7	22.5	23.3	25.1
8 : 1	97	-1.91614	18.4652	0.10112	15.2	15.7	16.0	16.8	17.3	18.5	19.9	20.8	22.6	23.4	25.2
8 : 2	98	-1.93128	18.5232	0.10162	15.2	15.7	16.0	16.8	17.4	18.5	19.9	20.8	22.7	23.5	25.4
8 : 3	99	-1.94514	18.5813	0.10211	15.3	15.8	16.1	16.9	17.4	18.6	20.0	20.9	22.8	23.6	25.6
8 : 4	100	-1.95773	18.6394	0.10262	15.3	15.8	16.1	16.9	17.5	18.6	20.1	21.0	22.9	23.8	25.7
8 : 5	101	-1.96908	18.6977	0.10312	15.4	15.9	16.2	17.0	17.5	18.7	20.1	21.1	23.0	23.9	25.9
8 : 6	102	-1.97920	18.7561	0.10363	15.4	15.9	16.2	17.0	17.6	18.8	20.2	21.2	23.1	24.0	26.0
8 : 7	103	-1.98813	18.8149	0.10414	15.4	15.9	16.2	17.1	17.6	18.8	20.3	21.2	23.2	24.1	26.2
8 : 8	104	-1.99588	18.8740	0.10465	15.5	16.0	16.3	17.1	17.7	18.9	20.4	21.3	23.3	24.2	26.3
8 : 9	105	-2.00248	18.9335	0.10516	15.5	16.0	16.3	17.2	17.7	18.9	20.4	21.4	23.4	24.4	26.5
8 : 10	106	-2.00795	18.9934	0.10568	15.6	16.1	16.4	17.2	17.8	19.0	20.5	21.5	23.5	24.5	26.7
8 : 11	107	-2.01231	19.0539	0.10619	15.6	16.1	16.4	17.3	17.8	19.1	20.6	21.6	23.6	24.6	26.8
9 : 0	108	-2.01558	19.1149	0.10671	15.6	16.2	16.4	17.3	17.9	19.1	20.7	21.7	23.7	24.7	27.0
9 : 1	109	-2.01780	19.1766	0.10722	15.7	16.2	16.5	17.3	17.9	19.2	20.7	21.7	23.8	24.8	27.1
9 : 2	110	-2.01897	19.2391	0.10774	15.7	16.2	16.5	17.4	18.0	19.2	20.8	21.8	24.0	25.0	27.3
9 : 3	111	-2.01912	19.3022	0.10825	15.7	16.3	16.6	17.4	18.0	19.3	20.9	21.9	24.1	25.1	27.4
9 : 4	112	-2.01828	19.3661	0.10877	15.8	16.3	16.6	17.5	18.1	19.4	21.0	22.0	24.2	25.2	27.6
9 : 5	113	-2.01647	19.4309	0.10928	15.8	16.4	16.7	17.5	18.1	19.4	21.0	22.1	24.3	25.3	27.7
9 : 6	114	-2.01371	19.4965	0.10979	15.9	16.4	16.7	17.6	18.2	19.5	21.1	22.2	24.4	25.5	27.9
9 : 7	115	-2.01004	19.5629	0.11029	15.9	16.4	16.8	17.7	18.3	19.6	21.2	22.3	24.5	25.6	28.1
9 : 8	116	-2.00546	19.6303	0.11080	15.9	16.5	16.8	17.7	18.3	19.6	21.3	22.4	24.6	25.7	28.2
9 : 9	117	-2.00000	19.6986	0.11130	16.0	16.5	16.9	17.8	18.4	19.7	21.4	22.5	24.7	25.8	28.4

5 to 19 years			Percentiles (MUAC in cm)												
Year : Month	Months	L	M	S	1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
9 : 10	118	-1.99370	19.7679	0.11179	16.0	16.6	16.9	17.8	18.4	19.8	21.4	22.6	24.9	26.0	28.5
9 : 11	119	-1.98657	19.8383	0.11228	16.1	16.6	17.0	17.9	18.5	19.8	21.5	22.6	25.0	26.1	28.7
10 : 0	120	-1.97863	19.9096	0.11277	16.1	16.7	17.0	17.9	18.5	19.9	21.6	22.7	25.1	26.2	28.8
10 : 1	121	-1.96991	19.9821	0.11325	16.2	16.7	17.0	18.0	18.6	20.0	21.7	22.8	25.2	26.3	29.0
10 : 2	122	-1.96043	20.0556	0.11372	16.2	16.8	17.1	18.0	18.7	20.1	21.8	22.9	25.3	26.5	29.1
10 : 3	123	-1.95022	20.1303	0.11419	16.3	16.8	17.2	18.1	18.7	20.1	21.9	23.0	25.4	26.6	29.3
10 : 4	124	-1.93930	20.2062	0.11465	16.3	16.9	17.2	18.2	18.8	20.2	22.0	23.1	25.6	26.7	29.4
10 : 5	125	-1.92770	20.2833	0.11510	16.3	16.9	17.3	18.2	18.9	20.3	22.1	23.2	25.7	26.8	29.6
10 : 6	126	-1.91544	20.3617	0.11554	16.4	17.0	17.3	18.3	18.9	20.4	22.2	23.3	25.8	27.0	29.7
10 : 7	127	-1.90255	20.4412	0.11597	16.4	17.0	17.4	18.3	19.0	20.4	22.2	23.4	25.9	27.1	29.8
10 : 8	128	-1.88906	20.5220	0.11640	16.5	17.1	17.4	18.4	19.1	20.5	22.3	23.5	26.0	27.2	30.0
10 : 9	129	-1.87501	20.6041	0.11681	16.5	17.1	17.5	18.5	19.1	20.6	22.4	23.6	26.1	27.3	30.1
10 : 10	130	-1.86041	20.6874	0.11721	16.6	17.2	17.5	18.5	19.2	20.7	22.5	23.7	26.3	27.5	30.3
10 : 11	131	-1.84530	20.7720	0.11761	16.6	17.3	17.6	18.6	19.3	20.8	22.6	23.8	26.4	27.6	30.4
11 : 0	132	-1.82971	20.8578	0.11798	16.7	17.3	17.7	18.7	19.4	20.9	22.7	24.0	26.5	27.7	30.5
11 : 1	133	-1.81367	20.9450	0.11835	16.8	17.4	17.7	18.7	19.4	20.9	22.8	24.1	26.6	27.9	30.7
11 : 2	134	-1.79720	21.0334	0.11870	16.8	17.4	17.8	18.8	19.5	21.0	22.9	24.2	26.8	28.0	30.8
11 : 3	135	-1.78034	21.1232	0.11904	16.9	17.5	17.9	18.9	19.6	21.1	23.0	24.3	26.9	28.1	30.9
11 : 4	136	-1.76312	21.2143	0.11937	16.9	17.6	17.9	19.0	19.7	21.2	23.1	24.4	27.0	28.2	31.1
11 : 5	137	-1.74555	21.3067	0.11967	17.0	17.6	18.0	19.0	19.8	21.3	23.2	24.5	27.1	28.4	31.2
11 : 6	138	-1.72768	21.4005	0.11997	17.0	17.7	18.1	19.1	19.8	21.4	23.3	24.6	27.2	28.5	31.3
11 : 7	139	-1.70954	21.4956	0.12024	17.1	17.8	18.1	19.2	19.9	21.5	23.5	24.7	27.4	28.6	31.4
11 : 8	140	-1.69114	21.5921	0.12050	17.2	17.8	18.2	19.3	20.0	21.6	23.6	24.8	27.5	28.7	31.6
11 : 9	141	-1.67254	21.6898	0.12075	17.2	17.9	18.3	19.4	20.1	21.7	23.7	25.0	27.6	28.9	31.7
11 : 10	142	-1.65377	21.7888	0.12097	17.3	18.0	18.3	19.4	20.2	21.8	23.8	25.1	27.7	29.0	31.8
11 : 11	143	-1.63486	21.8890	0.12118	17.4	18.0	18.4	19.5	20.3	21.9	23.9	25.2	27.9	29.1	31.9
12 : 0	144	-1.61586	21.9904	0.12137	17.4	18.1	18.5	19.6	20.4	22.0	24.0	25.3	28.0	29.2	32.1
12 : 1	145	-1.59680	22.0929	0.12154	17.5	18.2	18.6	19.7	20.5	22.1	24.1	25.4	28.1	29.4	32.2
12 : 2	146	-1.57771	22.1965	0.12169	17.6	18.3	18.7	19.8	20.5	22.2	24.2	25.5	28.2	29.5	32.3
12 : 3	147	-1.55864	22.3012	0.12183	17.6	18.3	18.7	19.9	20.6	22.3	24.3	25.7	28.4	29.6	32.4
12 : 4	148	-1.53962	22.4068	0.12194	17.7	18.4	18.8	20.0	20.7	22.4	24.5	25.8	28.5	29.7	32.5
12 : 5	149	-1.52070	22.5134	0.12204	17.8	18.5	18.9	20.1	20.8	22.5	24.6	25.9	28.6	29.9	32.6
12 : 6	150	-1.50190	22.6209	0.12212	17.9	18.6	19.0	20.1	20.9	22.6	24.7	26.0	28.7	30.0	32.8
12 : 7	151	-1.48326	22.7293	0.12218	17.9	18.7	19.1	20.2	21.0	22.7	24.8	26.1	28.9	30.1	32.9
12 : 8	152	-1.46482	22.8385	0.12221	18.0	18.7	19.1	20.3	21.1	22.8	24.9	26.3	29.0	30.2	33.0
12 : 9	153	-1.44663	22.9485	0.12223	18.1	18.8	19.2	20.4	21.2	22.9	25.1	26.4	29.1	30.3	33.1
12 : 10	154	-1.42870	23.0593	0.12223	18.2	18.9	19.3	20.5	21.3	23.1	25.2	26.5	29.2	30.5	33.2
12 : 11	155	-1.41108	23.1707	0.12221	18.2	19.0	19.4	20.6	21.4	23.2	25.3	26.6	29.4	30.6	33.3
13 : 0	156	-1.39378	23.2827	0.12217	18.3	19.1	19.5	20.7	21.5	23.3	25.4	26.8	29.5	30.7	33.4
13 : 1	157	-1.37683	23.3952	0.12211	18.4	19.2	19.6	20.8	21.6	23.4	25.5	26.9	29.6	30.8	33.5
13 : 2	158	-1.36024	23.5082	0.12204	18.5	19.3	19.7	20.9	21.7	23.5	25.7	27.0	29.7	31.0	33.7
13 : 3	159	-1.34404	23.6215	0.12194	18.6	19.3	19.8	21.0	21.8	23.6	25.8	27.1	29.8	31.1	33.8
13 : 4	160	-1.32825	23.7350	0.12183	18.7	19.4	19.9	21.1	22.0	23.7	25.9	27.3	30.0	31.2	33.9
13 : 5	161	-1.31289	23.8488	0.12170	18.7	19.5	20.0	21.2	22.1	23.8	26.0	27.4	30.1	31.3	34.0
13 : 6	162	-1.29798	23.9626	0.12155	18.8	19.6	20.1	21.3	22.2	24.0	26.1	27.5	30.2	31.4	34.1
13 : 7	163	-1.28355	24.0765	0.12138	18.9	19.7	20.2	21.4	22.3	24.1	26.3	27.6	30.3	31.5	34.2
13 : 8	164	-1.26961	24.1903	0.12120	19.0	19.8	20.3	21.5	22.4	24.2	26.4	27.7	30.4	31.7	34.3
13 : 9	165	-1.25619	24.3039	0.12101	19.1	19.9	20.3	21.6	22.5	24.3	26.5	27.9	30.6	31.8	34.4
13 : 10	166	-1.24331	24.4174	0.12079	19.2	20.0	20.4	21.7	22.6	24.4	26.6	28.0	30.7	31.9	34.5
13 : 11	167	-1.23099	24.5305	0.12057	19.3	20.1	20.5	21.8	22.7	24.5	26.7	28.1	30.8	32.0	34.6
14 : 0	168	-1.21926	24.6432	0.12032	19.4	20.2	20.6	21.9	22.8	24.6	26.8	28.2	30.9	32.1	34.7
14 : 1	169	-1.20812	24.7555	0.12007	19.5	20.3	20.7	22.0	22.9	24.8	27.0	28.3	31.0	32.2	34.8
14 : 2	170	-1.19761	24.8672	0.11980	19.6	20.4	20.8	22.2	23.0	24.9	27.1	28.4	31.1	32.3	34.9
14 : 3	171	-1.18774	24.9784	0.11952	19.6	20.5	20.9	22.3	23.1	25.0	27.2	28.6	31.2	32.4	35.0
14 : 4	172	-1.17852	25.0890	0.11922	19.7	20.6	21.0	22.4	23.2	25.1	27.3	28.7	31.4	32.6	35.1
14 : 5	173	-1.16998	25.1989	0.11892	19.8	20.7	21.1	22.5	23.3	25.2	27.4	28.8	31.5	32.7	35.2
14 : 6	174	-1.16213	25.3082	0.11860	19.9	20.8	21.2	22.6	23.4	25.3	27.5	28.9	31.6	32.8	35.3
14 : 7	175	-1.15499	25.4167	0.11828	20.0	20.9	21.3	22.7	23.6	25.4	27.6	29.0	31.7	32.9	35.4
14 : 8	176	-1.14858	25.5245	0.11795	20.1	20.9	21.4	22.8	23.7	25.5	27.7	29.1	31.8	33.0	35.5

5 to 19 years			Percentiles (MUAC in cm)													
Year : Month	Months		L	M	S	1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
14 : 9	177		-1.14291	25.6314	0.11761	20.2	21.0	21.5	22.9	23.8	25.6	27.9	29.2	31.9	33.1	35.6
14 : 10	178		-1.13800	25.7375	0.11726	20.3	21.1	21.6	23.0	23.9	25.7	28.0	29.3	32.0	33.2	35.7
14 : 11	179		-1.13388	25.8427	0.11691	20.4	21.2	21.7	23.1	24.0	25.8	28.1	29.4	32.1	33.3	35.8
15 : 0	180		-1.13055	25.9470	0.11655	20.5	21.3	21.8	23.2	24.1	25.9	28.2	29.5	32.2	33.4	35.9
15 : 1	181		-1.12804	26.0503	0.11619	20.6	21.4	21.9	23.3	24.2	26.1	28.3	29.6	32.3	33.5	36.0
15 : 2	182		-1.12636	26.1526	0.11583	20.7	21.5	22.0	23.4	24.3	26.2	28.4	29.8	32.4	33.6	36.1
15 : 3	183		-1.12553	26.2538	0.11546	20.8	21.6	22.1	23.5	24.4	26.3	28.5	29.9	32.5	33.7	36.1
15 : 4	184		-1.12555	26.3539	0.11510	20.9	21.7	22.2	23.6	24.5	26.4	28.6	30.0	32.6	33.8	36.2
15 : 5	185		-1.12638	26.4529	0.11473	20.9	21.8	22.3	23.7	24.6	26.5	28.7	30.1	32.7	33.9	36.3
15 : 6	186		-1.12800	26.5508	0.11436	21.0	21.9	22.4	23.8	24.7	26.6	28.8	30.2	32.8	34.0	36.4
15 : 7	187		-1.13037	26.6476	0.11399	21.1	22.0	22.5	23.9	24.8	26.6	28.9	30.2	32.9	34.1	36.5
15 : 8	188		-1.13345	26.7432	0.11362	21.2	22.1	22.6	23.9	24.8	26.7	29.0	30.3	33.0	34.2	36.6
15 : 9	189		-1.13722	26.8377	0.11326	21.3	22.2	22.7	24.0	24.9	26.8	29.1	30.4	33.1	34.3	36.7
15 : 10	190		-1.14163	26.9311	0.11290	21.4	22.3	22.8	24.1	25.0	26.9	29.2	30.5	33.2	34.3	36.8
15 : 11	191		-1.14666	27.0233	0.11254	21.5	22.4	22.8	24.2	25.1	27.0	29.3	30.6	33.3	34.4	36.9
16 : 0	192		-1.15227	27.1144	0.11219	21.6	22.4	22.9	24.3	25.2	27.1	29.3	30.7	33.4	34.5	37.0
16 : 1	193		-1.15843	27.2043	0.11184	21.7	22.5	23.0	24.4	25.3	27.2	29.4	30.8	33.5	34.6	37.1
16 : 2	194		-1.16511	27.2930	0.11150	21.8	22.6	23.1	24.5	25.4	27.3	29.5	30.9	33.5	34.7	37.2
16 : 3	195		-1.17226	27.3805	0.11116	21.8	22.7	23.2	24.6	25.5	27.4	29.6	31.0	33.6	34.8	37.3
16 : 4	196		-1.17986	27.4669	0.11083	21.9	22.8	23.3	24.7	25.6	27.5	29.7	31.1	33.7	34.9	37.4
16 : 5	197		-1.18788	27.5520	0.11051	22.0	22.9	23.4	24.7	25.7	27.6	29.8	31.2	33.8	35.0	37.4
16 : 6	198		-1.19627	27.6359	0.11020	22.1	23.0	23.5	24.8	25.7	27.6	29.9	31.2	33.9	35.1	37.5
16 : 7	199		-1.20499	27.7186	0.10990	22.2	23.0	23.5	24.9	25.8	27.7	30.0	31.3	34.0	35.2	37.6
16 : 8	200		-1.21395	27.8002	0.10960	22.3	23.1	23.6	25.0	25.9	27.8	30.0	31.4	34.1	35.2	37.7
16 : 9	201		-1.22310	27.8805	0.10932	22.3	23.2	23.7	25.1	26.0	27.9	30.1	31.5	34.2	35.3	37.8
16 : 10	202		-1.23235	27.9596	0.10904	22.4	23.3	23.8	25.2	26.1	28.0	30.2	31.6	34.2	35.4	37.9
16 : 11	203		-1.24164	28.0375	0.10878	22.5	23.4	23.9	25.2	26.1	28.0	30.3	31.7	34.3	35.5	38.0
17 : 0	204		-1.25090	28.1142	0.10852	22.6	23.4	23.9	25.3	26.2	28.1	30.4	31.7	34.4	35.6	38.1
17 : 1	205		-1.26004	28.1898	0.10827	22.7	23.5	24.0	25.4	26.3	28.2	30.4	31.8	34.5	35.7	38.2
17 : 2	206		-1.26901	28.2642	0.10803	22.7	23.6	24.1	25.5	26.4	28.3	30.5	31.9	34.6	35.8	38.3
17 : 3	207		-1.27772	28.3374	0.10780	22.8	23.7	24.2	25.5	26.4	28.3	30.6	32.0	34.6	35.8	38.3
17 : 4	208		-1.28612	28.4094	0.10758	22.9	23.7	24.2	25.6	26.5	28.4	30.7	32.0	34.7	35.9	38.4
17 : 5	209		-1.29412	28.4802	0.10737	22.9	23.8	24.3	25.7	26.6	28.5	30.7	32.1	34.8	36.0	38.5
17 : 6	210		-1.30165	28.5499	0.10716	23.0	23.9	24.4	25.7	26.6	28.5	30.8	32.2	34.9	36.1	38.6
17 : 7	211		-1.30865	28.6184	0.10697	23.1	23.9	24.4	25.8	26.7	28.6	30.9	32.3	35.0	36.1	38.7
17 : 8	212		-1.31504	28.6858	0.10679	23.1	24.0	24.5	25.9	26.8	28.7	30.9	32.3	35.0	36.2	38.7
17 : 9	213		-1.32075	28.7520	0.10661	23.2	24.1	24.6	25.9	26.8	28.8	31.0	32.4	35.1	36.3	38.8
17 : 10	214		-1.32576	28.8170	0.10645	23.3	24.1	24.6	26.0	26.9	28.8	31.1	32.5	35.2	36.4	38.9
17 : 11	215		-1.33005	28.8809	0.10629	23.3	24.2	24.7	26.1	27.0	28.9	31.1	32.5	35.2	36.4	39.0
18 : 0	216		-1.33359	28.9437	0.10614	23.4	24.2	24.7	26.1	27.0	28.9	31.2	32.6	35.3	36.5	39.0
18 : 1	217		-1.33637	29.0053	0.10600	23.4	24.3	24.8	26.2	27.1	29.0	31.3	32.7	35.4	36.6	39.1
18 : 2	218		-1.33836	29.0657	0.10587	23.5	24.4	24.9	26.2	27.2	29.1	31.3	32.7	35.4	36.6	39.2
18 : 3	219		-1.33955	29.1250	0.10575	23.5	24.4	24.9	26.3	27.2	29.1	31.4	32.8	35.5	36.7	39.3
18 : 4	220		-1.33992	29.1832	0.10563	23.6	24.5	25.0	26.4	27.3	29.2	31.5	32.8	35.6	36.8	39.3
18 : 5	221		-1.33944	29.2402	0.10552	23.6	24.5	25.0	26.4	27.3	29.2	31.5	32.9	35.6	36.8	39.4
18 : 6	222		-1.33810	29.2961	0.10542	23.7	24.6	25.1	26.5	27.4	29.3	31.6	33.0	35.7	36.9	39.4
18 : 7	223		-1.33587	29.3508	0.10533	23.7	24.6	25.1	26.5	27.4	29.4	31.6	33.0	35.7	36.9	39.5
18 : 8	224		-1.33274	29.4044	0.10524	23.8	24.7	25.2	26.6	27.5	29.4	31.7	33.1	35.8	37.0	39.5
18 : 9	225		-1.32869	29.4569	0.10516	23.8	24.7	25.2	26.6	27.5	29.5	31.7	33.1	35.9	37.1	39.6
18 : 10	226		-1.32369	29.5082	0.10508	23.9	24.8	25.3	26.7	27.6	29.5	31.8	33.2	35.9	37.1	39.6
18 : 11	227		-1.31773	29.5584	0.10501	23.9	24.8	25.3	26.7	27.6	29.6	31.8	33.2	36.0	37.2	39.7
19 : 0	228		-1.31080	29.6074	0.10495	24.0	24.8	25.3	26.7	27.7	29.6	31.9	33.3	36.0	37.2	39.7

Mid-upper arm circumference-for-age GIRLS (5 to 19 years)

5 to 19 years			Percentiles (MUAC in cm)													
Year : Month	Months	L	M	S	1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th	
5 : 0	60	-0.49271	16.8168	0.09338	13.7	14.2	14.5	15.3	15.8	16.8	17.9	18.6	19.7	20.2	21.2	
5 : 1	61	-0.50464	16.8623	0.09380	13.7	14.2	14.5	15.3	15.8	16.9	18.0	18.6	19.8	20.3	21.2	
5 : 2	62	-0.51656	16.9078	0.09423	13.7	14.3	14.6	15.4	15.9	16.9	18.0	18.7	19.9	20.4	21.3	
5 : 3	63	-0.52844	16.9532	0.09467	13.8	14.3	14.6	15.4	15.9	17.0	18.1	18.7	19.9	20.4	21.4	
5 : 4	64	-0.54030	16.9986	0.09512	13.8	14.3	14.6	15.4	16.0	17.0	18.1	18.8	20.0	20.5	21.5	
5 : 5	65	-0.55212	17.0440	0.09557	13.8	14.4	14.7	15.5	16.0	17.0	18.2	18.9	20.1	20.6	21.6	
5 : 6	66	-0.56392	17.0895	0.09603	13.8	14.4	14.7	15.5	16.0	17.1	18.3	18.9	20.2	20.7	21.7	
5 : 7	67	-0.57568	17.1350	0.09649	13.9	14.4	14.7	15.5	16.1	17.1	18.3	19.0	20.2	20.8	21.8	
5 : 8	68	-0.58740	17.1807	0.09696	13.9	14.4	14.8	15.6	16.1	17.2	18.4	19.1	20.3	20.8	21.9	
5 : 9	69	-0.59908	17.2265	0.09744	13.9	14.5	14.8	15.6	16.2	17.2	18.4	19.1	20.4	20.9	22.0	
5 : 10	70	-0.61073	17.2725	0.09793	14.0	14.5	14.8	15.7	16.2	17.3	18.5	19.2	20.5	21.0	22.1	
5 : 11	71	-0.62233	17.3188	0.09842	14.0	14.5	14.8	15.7	16.2	17.3	18.5	19.2	20.5	21.1	22.2	
6 : 0	72	-0.63388	17.3653	0.09892	14.0	14.6	14.9	15.7	16.3	17.4	18.6	19.3	20.6	21.2	22.3	
6 : 1	73	-0.64539	17.4122	0.09943	14.0	14.6	14.9	15.8	16.3	17.4	18.6	19.4	20.7	21.3	22.4	
6 : 2	74	-0.65684	17.4594	0.09995	14.1	14.6	14.9	15.8	16.3	17.5	18.7	19.4	20.8	21.3	22.5	
6 : 3	75	-0.66825	17.5071	0.10047	14.1	14.7	15.0	15.8	16.4	17.5	18.8	19.5	20.9	21.4	22.6	
6 : 4	76	-0.67959	17.5551	0.10100	14.1	14.7	15.0	15.9	16.4	17.6	18.8	19.6	20.9	21.5	22.7	
6 : 5	77	-0.69089	17.6037	0.10154	14.1	14.7	15.0	15.9	16.5	17.6	18.9	19.6	21.0	21.6	22.8	
6 : 6	78	-0.70212	17.6528	0.10208	14.2	14.7	15.1	15.9	16.5	17.7	18.9	19.7	21.1	21.7	22.9	
6 : 7	79	-0.71329	17.7024	0.10263	14.2	14.8	15.1	16.0	16.5	17.7	19.0	19.8	21.2	21.8	23.0	
6 : 8	80	-0.72439	17.7527	0.10319	14.2	14.8	15.1	16.0	16.6	17.8	19.1	19.8	21.3	21.9	23.1	
6 : 9	81	-0.73543	17.8036	0.10375	14.3	14.8	15.2	16.1	16.6	17.8	19.1	19.9	21.4	22.0	23.2	
6 : 10	82	-0.74641	17.8551	0.10433	14.3	14.9	15.2	16.1	16.7	17.9	19.2	20.0	21.5	22.1	23.3	
6 : 11	83	-0.75731	17.9073	0.10490	14.3	14.9	15.2	16.1	16.7	17.9	19.3	20.1	21.5	22.2	23.5	
7 : 0	84	-0.76814	17.9602	0.10549	14.3	14.9	15.3	16.2	16.8	18.0	19.3	20.1	21.6	22.3	23.6	
7 : 1	85	-0.77891	18.0138	0.10608	14.4	15.0	15.3	16.2	16.8	18.0	19.4	20.2	21.7	22.4	23.7	
7 : 2	86	-0.78960	18.0680	0.10667	14.4	15.0	15.3	16.3	16.8	18.1	19.5	20.3	21.8	22.5	23.8	
7 : 3	87	-0.80022	18.1230	0.10727	14.4	15.0	15.4	16.3	16.9	18.1	19.5	20.4	21.9	22.6	23.9	
7 : 4	88	-0.81076	18.1787	0.10788	14.5	15.1	15.4	16.3	16.9	18.2	19.6	20.4	22.0	22.7	24.1	
7 : 5	89	-0.82123	18.2351	0.10848	14.5	15.1	15.4	16.4	17.0	18.2	19.7	20.5	22.1	22.8	24.2	
7 : 6	90	-0.83162	18.2923	0.10909	14.5	15.1	15.5	16.4	17.0	18.3	19.7	20.6	22.2	22.9	24.3	
7 : 7	91	-0.84193	18.3502	0.10971	14.6	15.2	15.5	16.5	17.1	18.4	19.8	20.7	22.3	23.0	24.5	
7 : 8	92	-0.85217	18.4088	0.11033	14.6	15.2	15.6	16.5	17.1	18.4	19.9	20.8	22.4	23.1	24.6	
7 : 9	93	-0.86233	18.4683	0.11094	14.6	15.2	15.6	16.6	17.2	18.5	20.0	20.8	22.5	23.2	24.7	
7 : 10	94	-0.87240	18.5285	0.11157	14.7	15.3	15.6	16.6	17.2	18.5	20.0	20.9	22.6	23.4	24.9	
7 : 11	95	-0.88239	18.5895	0.11219	14.7	15.3	15.7	16.6	17.3	18.6	20.1	21.0	22.7	23.5	25.0	
8 : 0	96	-0.89230	18.6514	0.11281	14.7	15.4	15.7	16.7	17.3	18.7	20.2	21.1	22.8	23.6	25.2	
8 : 1	97	-0.90213	18.7140	0.11343	14.8	15.4	15.7	16.7	17.4	18.7	20.3	21.2	23.0	23.7	25.3	
8 : 2	98	-0.91187	18.7773	0.11405	14.8	15.4	15.8	16.8	17.4	18.8	20.3	21.3	23.1	23.8	25.4	
8 : 3	99	-0.92153	18.8415	0.11467	14.8	15.5	15.8	16.8	17.5	18.8	20.4	21.4	23.2	24.0	25.6	
8 : 4	100	-0.93111	18.9063	0.11529	14.9	15.5	15.9	16.9	17.5	18.9	20.5	21.5	23.3	24.1	25.7	
8 : 5	101	-0.94061	18.9719	0.11590	14.9	15.6	15.9	16.9	17.6	19.0	20.6	21.5	23.4	24.2	25.9	
8 : 6	102	-0.95002	19.0382	0.11651	15.0	15.6	16.0	17.0	17.6	19.0	20.7	21.6	23.5	24.3	26.0	
8 : 7	103	-0.95935	19.1052	0.11712	15.0	15.6	16.0	17.0	17.7	19.1	20.7	21.7	23.6	24.5	26.2	
8 : 8	104	-0.96860	19.1729	0.11772	15.0	15.7	16.1	17.1	17.8	19.2	20.8	21.8	23.8	24.6	26.4	
8 : 9	105	-0.97776	19.2412	0.11831	15.1	15.7	16.1	17.1	17.8	19.2	20.9	21.9	23.9	24.7	26.5	
8 : 10	106	-0.98685	19.3102	0.11890	15.1	15.8	16.1	17.2	17.9	19.3	21.0	22.0	24.0	24.9	26.7	
8 : 11	107	-0.99585	19.3799	0.11948	15.2	15.8	16.2	17.2	17.9	19.4	21.1	22.1	24.1	25.0	26.8	
9 : 0	108	-1.00477	19.4501	0.12006	15.2	15.9	16.2	17.3	18.0	19.5	21.2	22.2	24.2	25.1	27.0	
9 : 1	109	-1.01360	19.5210	0.12062	15.2	15.9	16.3	17.4	18.1	19.5	21.2	22.3	24.4	25.3	27.2	
9 : 2	110	-1.02236	19.5924	0.12117	15.3	16.0	16.3	17.4	18.1	19.6	21.3	22.4	24.5	25.4	27.3	
9 : 3	111	-1.03103	19.6645	0.12171	15.3	16.0	16.4	17.5	18.2	19.7	21.4	22.5	24.6	25.5	27.5	
9 : 4	112	-1.03963	19.7371	0.12224	15.4	16.1	16.4	17.5	18.2	19.7	21.5	22.6	24.7	25.7	27.6	
9 : 5	113	-1.04814	19.8104	0.12276	15.4	16.1	16.5	17.6	18.3	19.8	21.6	22.7	24.9	25.8	27.8	
9 : 6	114	-1.05657	19.8842	0.12327	15.5	16.2	16.5	17.6	18.4	19.9	21.7	22.8	25.0	25.9	28.0	
9 : 7	115	-1.06493	19.9586	0.12376	15.5	16.2	16.6	17.7	18.4	20.0	21.8	22.9	25.1	26.1	28.1	
9 : 8	116	-1.07321	20.0336	0.12424	15.6	16.3	16.7	17.8	18.5	20.0	21.9	23.0	25.2	26.2	28.3	
9 : 9	117	-1.08141	20.1093	0.12471	15.6	16.3	16.7	17.8	18.6	20.1	22.0	23.1	25.4	26.4	28.5	

5 to 19 years				Percentiles (MUAC in cm)													
Year : Month	Months	L	M	S	1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th		
9 : 10	118	-1.08954	20.1855	0.12515	15.7	16.4	16.8	17.9	18.6	20.2	22.1	23.2	25.5	26.5	28.6		
9 : 11	119	-1.09759	20.2623	0.12559	15.7	16.4	16.8	17.9	18.7	20.3	22.1	23.3	25.6	26.6	28.8		
10 : 0	120	-1.10557	20.3398	0.12601	15.8	16.5	16.9	18.0	18.8	20.3	22.2	23.4	25.7	26.8	29.0		
10 : 1	121	-1.11347	20.4178	0.12641	15.8	16.5	16.9	18.1	18.8	20.4	22.3	23.5	25.9	26.9	29.2		
10 : 2	122	-1.12131	20.4965	0.12679	15.9	16.6	17.0	18.1	18.9	20.5	22.4	23.6	26.0	27.1	29.3		
10 : 3	123	-1.12907	20.5758	0.12716	15.9	16.6	17.1	18.2	19.0	20.6	22.5	23.7	26.1	27.2	29.5		
10 : 4	124	-1.13676	20.6557	0.12751	16.0	16.7	17.1	18.3	19.0	20.7	22.6	23.8	26.2	27.3	29.7		
10 : 5	125	-1.14439	20.7362	0.12783	16.1	16.8	17.2	18.3	19.1	20.7	22.7	23.9	26.4	27.5	29.8		
10 : 6	126	-1.15194	20.8172	0.12814	16.1	16.8	17.2	18.4	19.2	20.8	22.8	24.0	26.5	27.6	30.0		
10 : 7	127	-1.15943	20.8989	0.12843	16.2	16.9	17.3	18.5	19.2	20.9	22.9	24.1	26.6	27.7	30.2		
10 : 8	128	-1.16685	20.9810	0.12870	16.2	17.0	17.4	18.5	19.3	21.0	23.0	24.3	26.8	27.9	30.3		
10 : 9	129	-1.17420	21.0637	0.12895	16.3	17.0	17.4	18.6	19.4	21.1	23.1	24.4	26.9	28.0	30.5		
10 : 10	130	-1.18149	21.1468	0.12918	16.4	17.1	17.5	18.7	19.5	21.1	23.2	24.5	27.0	28.2	30.7		
10 : 11	131	-1.18871	21.2304	0.12939	16.4	17.1	17.6	18.7	19.5	21.2	23.3	24.6	27.1	28.3	30.8		
11 : 0	132	-1.19587	21.3144	0.12958	16.5	17.2	17.6	18.8	19.6	21.3	23.4	24.7	27.3	28.4	31.0		
11 : 1	133	-1.20297	21.3988	0.12976	16.5	17.3	17.7	18.9	19.7	21.4	23.5	24.8	27.4	28.6	31.1		
11 : 2	134	-1.21000	21.4835	0.12991	16.6	17.3	17.8	19.0	19.8	21.5	23.6	24.9	27.5	28.7	31.3		
11 : 3	135	-1.21697	21.5686	0.13004	16.7	17.4	17.8	19.0	19.8	21.6	23.7	25.0	27.6	28.8	31.5		
11 : 4	136	-1.22389	21.6540	0.13016	16.7	17.5	17.9	19.1	19.9	21.7	23.8	25.1	27.8	29.0	31.6		
11 : 5	137	-1.23074	21.7397	0.13025	16.8	17.5	18.0	19.2	20.0	21.7	23.9	25.2	27.9	29.1	31.8		
11 : 6	138	-1.23753	21.8256	0.13032	16.9	17.6	18.0	19.3	20.1	21.8	24.0	25.3	28.0	29.2	31.9		
11 : 7	139	-1.24427	21.9117	0.13038	16.9	17.7	18.1	19.3	20.2	21.9	24.0	25.4	28.1	29.4	32.1		
11 : 8	140	-1.25095	21.9980	0.13041	17.0	17.8	18.2	19.4	20.2	22.0	24.1	25.5	28.2	29.5	32.2		
11 : 9	141	-1.25757	22.0845	0.13043	17.1	17.8	18.3	19.5	20.3	22.1	24.2	25.6	28.4	29.6	32.4		
11 : 10	142	-1.26414	22.1710	0.13043	17.1	17.9	18.3	19.6	20.4	22.2	24.3	25.7	28.5	29.7	32.5		
11 : 11	143	-1.27064	22.2574	0.13041	17.2	18.0	18.4	19.6	20.5	22.3	24.4	25.8	28.6	29.9	32.6		
12 : 0	144	-1.27709	22.3438	0.13037	17.3	18.1	18.5	19.7	20.6	22.3	24.5	25.9	28.7	30.0	32.8		
12 : 1	145	-1.28349	22.4300	0.13032	17.4	18.1	18.6	19.8	20.6	22.4	24.6	26.0	28.8	30.1	32.9		
12 : 2	146	-1.28983	22.5161	0.13025	17.4	18.2	18.6	19.9	20.7	22.5	24.7	26.1	28.9	30.2	33.1		
12 : 3	147	-1.29611	22.6018	0.13017	17.5	18.3	18.7	20.0	20.8	22.6	24.8	26.2	29.0	30.3	33.2		
12 : 4	148	-1.30233	22.6872	0.13008	17.6	18.3	18.8	20.0	20.9	22.7	24.9	26.3	29.2	30.5	33.3		
12 : 5	149	-1.30850	22.7722	0.12997	17.7	18.4	18.9	20.1	21.0	22.8	25.0	26.4	29.3	30.6	33.5		
12 : 6	150	-1.31461	22.8568	0.12985	17.7	18.5	18.9	20.2	21.0	22.9	25.1	26.5	29.4	30.7	33.6		
12 : 7	151	-1.32067	22.9408	0.12971	17.8	18.6	19.0	20.3	21.1	22.9	25.2	26.6	29.5	30.8	33.7		
12 : 8	152	-1.32667	23.0242	0.12957	17.9	18.6	19.1	20.3	21.2	23.0	25.3	26.7	29.6	30.9	33.8		
12 : 9	153	-1.33261	23.1069	0.12941	17.9	18.7	19.2	20.4	21.3	23.1	25.4	26.8	29.7	31.0	33.9		
12 : 10	154	-1.33850	23.1889	0.12925	18.0	18.8	19.2	20.5	21.4	23.2	25.4	26.9	29.8	31.1	34.1		
12 : 11	155	-1.34434	23.2701	0.12907	18.1	18.9	19.3	20.6	21.4	23.3	25.5	27.0	29.9	31.2	34.2		
13 : 0	156	-1.35012	23.3505	0.12889	18.2	18.9	19.4	20.7	21.5	23.4	25.6	27.1	30.0	31.3	34.3		
13 : 1	157	-1.35584	23.4301	0.12870	18.2	19.0	19.5	20.7	21.6	23.4	25.7	27.1	30.1	31.4	34.4		
13 : 2	158	-1.36150	23.5087	0.12850	18.3	19.1	19.5	20.8	21.7	23.5	25.8	27.2	30.2	31.5	34.5		
13 : 3	159	-1.36711	23.5865	0.12830	18.4	19.1	19.6	20.9	21.7	23.6	25.9	27.3	30.3	31.6	34.6		
13 : 4	160	-1.37265	23.6632	0.12809	18.4	19.2	19.7	20.9	21.8	23.7	25.9	27.4	30.3	31.7	34.7		
13 : 5	161	-1.37814	23.7390	0.12787	18.5	19.3	19.7	21.0	21.9	23.7	26.0	27.5	30.4	31.8	34.8		
13 : 6	162	-1.38357	23.8137	0.12766	18.6	19.4	19.8	21.1	22.0	23.8	26.1	27.6	30.5	31.9	34.9		
13 : 7	163	-1.38894	23.8873	0.12744	18.6	19.4	19.9	21.2	22.0	23.9	26.2	27.6	30.6	32.0	35.0		
13 : 8	164	-1.39425	23.9598	0.12721	18.7	19.5	19.9	21.2	22.1	24.0	26.3	27.7	30.7	32.1	35.1		
13 : 9	165	-1.39950	24.0312	0.12699	18.8	19.6	20.0	21.3	22.2	24.0	26.3	27.8	30.8	32.1	35.2		
13 : 10	166	-1.40469	24.1013	0.12676	18.8	19.6	20.1	21.4	22.2	24.1	26.4	27.9	30.8	32.2	35.3		
13 : 11	167	-1.40982	24.1703	0.12653	18.9	19.7	20.1	21.4	22.3	24.2	26.5	27.9	30.9	32.3	35.4		
14 : 0	168	-1.41489	24.2379	0.12630	19.0	19.7	20.2	21.5	22.4	24.2	26.5	28.0	31.0	32.4	35.4		
14 : 1	169	-1.41989	24.3043	0.12608	19.0	19.8	20.3	21.6	22.4	24.3	26.6	28.1	31.1	32.5	35.5		
14 : 2	170	-1.42484	24.3693	0.12585	19.1	19.9	20.3	21.6	22.5	24.4	26.7	28.2	31.1	32.5	35.6		
14 : 3	171	-1.42971	24.4330	0.12563	19.1	19.9	20.4	21.7	22.6	24.4	26.7	28.2	31.2	32.6	35.7		
14 : 4	172	-1.43453	24.4954	0.12541	19.2	20.0	20.4	21.7	22.6	24.5	26.8	28.3	31.3	32.7	35.7		
14 : 5	173	-1.43928	24.5565	0.12519	19.3	20.0	20.5	21.8	22.7	24.6	26.9	28.3	31.4	32.7	35.8		
14 : 6	174	-1.44397	24.6163	0.12498	19.3	20.1	20.6	21.9	22.7	24.6	26.9	28.4	31.4	32.8	35.9		
14 : 7	175	-1.44859	24.6747	0.12476	19.4	20.2	20.6	21.9	22.8	24.7	27.0	28.5	31.5	32.9	36.0		
14 : 8	176	-1.45315	24.7318	0.12456	19.4	20.2	20.7	22.0	22.8	24.7	27.0	28.5	31.5	32.9	36.0		

5 to 19 years			Percentiles (MUAC in cm)												
Year : Month	Months	L	M	S	1st	3rd	5th	15th	25th	50th	75th	85th	95th	97th	99th
14 : 9	177	-1.45764	24.7876	0.12436	19.5	20.3	20.7	22.0	22.9	24.8	27.1	28.6	31.6	33.0	36.1
14 : 10	178	-1.46207	24.8421	0.12416	19.5	20.3	20.8	22.1	23.0	24.8	27.2	28.6	31.7	33.1	36.2
14 : 11	179	-1.46642	24.8952	0.12397	19.6	20.4	20.8	22.1	23.0	24.9	27.2	28.7	31.7	33.1	36.2
15 : 0	180	-1.47072	24.9470	0.12378	19.6	20.4	20.9	22.2	23.1	24.9	27.3	28.8	31.8	33.2	36.3
15 : 1	181	-1.47494	24.9975	0.12360	19.7	20.5	20.9	22.2	23.1	25.0	27.3	28.8	31.8	33.2	36.3
15 : 2	182	-1.47910	25.0466	0.12343	19.7	20.5	21.0	22.3	23.2	25.0	27.4	28.9	31.9	33.3	36.4
15 : 3	183	-1.48319	25.0944	0.12326	19.8	20.6	21.0	22.3	23.2	25.1	27.4	28.9	31.9	33.3	36.5
15 : 4	184	-1.48721	25.1409	0.12311	19.8	20.6	21.1	22.4	23.2	25.1	27.5	29.0	32.0	33.4	36.5
15 : 5	185	-1.49116	25.1861	0.12296	19.8	20.6	21.1	22.4	23.3	25.2	27.5	29.0	32.0	33.4	36.6
15 : 6	186	-1.49504	25.2299	0.12281	19.9	20.7	21.1	22.5	23.3	25.2	27.6	29.1	32.1	33.5	36.6
15 : 7	187	-1.49886	25.2725	0.12268	19.9	20.7	21.2	22.5	23.4	25.3	27.6	29.1	32.1	33.5	36.7
15 : 8	188	-1.50260	25.3139	0.12255	20.0	20.8	21.2	22.5	23.4	25.3	27.6	29.1	32.2	33.6	36.7
15 : 9	189	-1.50628	25.3541	0.12243	20.0	20.8	21.3	22.6	23.5	25.4	27.7	29.2	32.2	33.6	36.8
15 : 10	190	-1.50989	25.3931	0.12232	20.0	20.8	21.3	22.6	23.5	25.4	27.7	29.2	32.3	33.7	36.8
15 : 11	191	-1.51343	25.4309	0.12222	20.1	20.9	21.3	22.6	23.5	25.4	27.8	29.3	32.3	33.7	36.9
16 : 0	192	-1.51691	25.4676	0.12213	20.1	20.9	21.4	22.7	23.6	25.5	27.8	29.3	32.4	33.8	36.9
16 : 1	193	-1.52031	25.5032	0.12204	20.1	20.9	21.4	22.7	23.6	25.5	27.8	29.3	32.4	33.8	37.0
16 : 2	194	-1.52364	25.5377	0.12196	20.2	21.0	21.4	22.8	23.6	25.5	27.9	29.4	32.4	33.9	37.0
16 : 3	195	-1.52691	25.5711	0.12189	20.2	21.0	21.5	22.8	23.7	25.6	27.9	29.4	32.5	33.9	37.1
16 : 4	196	-1.53011	25.6035	0.12183	20.2	21.0	21.5	22.8	23.7	25.6	28.0	29.5	32.5	34.0	37.1
16 : 5	197	-1.53324	25.6348	0.12177	20.3	21.1	21.5	22.8	23.7	25.6	28.0	29.5	32.6	34.0	37.2
16 : 6	198	-1.53630	25.6652	0.12173	20.3	21.1	21.6	22.9	23.8	25.7	28.0	29.5	32.6	34.0	37.2
16 : 7	199	-1.53930	25.6946	0.12169	20.3	21.1	21.6	22.9	23.8	25.7	28.0	29.6	32.6	34.1	37.3
16 : 8	200	-1.54222	25.7231	0.12166	20.3	21.1	21.6	22.9	23.8	25.7	28.1	29.6	32.7	34.1	37.3
16 : 9	201	-1.54508	25.7507	0.12164	20.4	21.2	21.6	23.0	23.8	25.8	28.1	29.6	32.7	34.2	37.4
16 : 10	202	-1.54788	25.7774	0.12163	20.4	21.2	21.7	23.0	23.9	25.8	28.1	29.7	32.8	34.2	37.4
16 : 11	203	-1.55061	25.8033	0.12162	20.4	21.2	21.7	23.0	23.9	25.8	28.2	29.7	32.8	34.2	37.4
17 : 0	204	-1.55328	25.8284	0.12162	20.4	21.2	21.7	23.0	23.9	25.8	28.2	29.7	32.8	34.3	37.5
17 : 1	205	-1.55588	25.8527	0.12163	20.4	21.3	21.7	23.0	23.9	25.9	28.2	29.7	32.9	34.3	37.5
17 : 2	206	-1.55843	25.8763	0.12165	20.5	21.3	21.7	23.1	24.0	25.9	28.2	29.8	32.9	34.3	37.6
17 : 3	207	-1.56091	25.8991	0.12167	20.5	21.3	21.8	23.1	24.0	25.9	28.3	29.8	32.9	34.4	37.6
17 : 4	208	-1.56333	25.9213	0.12170	20.5	21.3	21.8	23.1	24.0	25.9	28.3	29.8	33.0	34.4	37.7
17 : 5	209	-1.56569	25.9429	0.12174	20.5	21.3	21.8	23.1	24.0	25.9	28.3	29.9	33.0	34.4	37.7
17 : 6	210	-1.56799	25.9638	0.12178	20.5	21.3	21.8	23.1	24.0	26.0	28.3	29.9	33.0	34.5	37.8
17 : 7	211	-1.57024	25.9842	0.12183	20.6	21.4	21.8	23.2	24.1	26.0	28.4	29.9	33.1	34.5	37.8
17 : 8	212	-1.57243	26.0040	0.12189	20.6	21.4	21.8	23.2	24.1	26.0	28.4	29.9	33.1	34.6	37.8
17 : 9	213	-1.57456	26.0233	0.12195	20.6	21.4	21.9	23.2	24.1	26.0	28.4	30.0	33.1	34.6	37.9
17 : 10	214	-1.57664	26.0421	0.12202	20.6	21.4	21.9	23.2	24.1	26.0	28.4	30.0	33.2	34.6	37.9
17 : 11	215	-1.57867	26.0605	0.12210	20.6	21.4	21.9	23.2	24.1	26.1	28.5	30.0	33.2	34.7	38.0
18 : 0	216	-1.58064	26.0784	0.12218	20.6	21.4	21.9	23.2	24.1	26.1	28.5	30.0	33.2	34.7	38.0
18 : 1	217	-1.58256	26.0958	0.12227	20.6	21.4	21.9	23.3	24.2	26.1	28.5	30.1	33.2	34.7	38.1
18 : 2	218	-1.58443	26.1128	0.12236	20.6	21.5	21.9	23.3	24.2	26.1	28.5	30.1	33.3	34.8	38.1
18 : 3	219	-1.58625	26.1295	0.12246	20.7	21.5	21.9	23.3	24.2	26.1	28.5	30.1	33.3	34.8	38.2
18 : 4	220	-1.58803	26.1457	0.12256	20.7	21.5	22.0	23.3	24.2	26.1	28.6	30.1	33.3	34.8	38.2
18 : 5	221	-1.58975	26.1616	0.12267	20.7	21.5	22.0	23.3	24.2	26.2	28.6	30.2	33.4	34.9	38.3
18 : 6	222	-1.59143	26.1772	0.12278	20.7	21.5	22.0	23.3	24.2	26.2	28.6	30.2	33.4	34.9	38.3
18 : 7	223	-1.59307	26.1924	0.12290	20.7	21.5	22.0	23.3	24.2	26.2	28.6	30.2	33.4	34.9	38.4
18 : 8	224	-1.59466	26.2073	0.12302	20.7	21.5	22.0	23.3	24.2	26.2	28.6	30.2	33.5	35.0	38.4
18 : 9	225	-1.59621	26.2220	0.12315	20.7	21.5	22.0	23.3	24.3	26.2	28.7	30.2	33.5	35.0	38.5
18 : 10	226	-1.59771	26.2363	0.12328	20.7	21.5	22.0	23.4	24.3	26.2	28.7	30.3	33.5	35.1	38.5
18 : 11	227	-1.59918	26.2505	0.12342	20.7	21.5	22.0	23.4	24.3	26.3	28.7	30.3	33.6	35.1	38.5
19 : 0	228	-1.60061	26.2644	0.12356	20.7	21.6	22.0	23.4	24.3	26.3	28.7	30.3	33.6	35.1	38.6