

**MADAGASCAR**

Admin. level	Months	Year	Area	Sex	Age group	Sample size	Percentage below / above median													Notes	Ref	
							Weight/age		Height/age		Weight/height					BMI / age						
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+2SD	+3SD	-3SD	-2SD	+1SD	+2SD			+3SD
National	JUL-SEP	1983-84			0. -1.99			29.7		40.0			13.8		4.1						Converted estimates	00119
National	MAY-NOV	1992			0. -5.00	4530	11.2	35.5	31.9	60.9	1.2	6.4	9.5	1.6	0.4	1.2	5.0	13.7	2.1	0.4		00878
					0. -5.00	1315	9.3	37.1	35.5	69.2	0.8	4.3	10.4	1.8	0.5	0.9	3.0	14.8	2.3	0.4	Antananarivo	
					0. -5.00	338	5.5	26.1	24.8	46.2	1.6	6.4	10.5	1.8	0.5	1.3	6.2	16.8	2.5	0.5	Antsiranana	
					0. -5.00	1172	17.0	44.7	40.7	67.3	1.7	8.5	7.3	1.2	0.4	2.0	6.7	11.4	1.3	0.3	Fianarantsoa	
					0. -5.00	629	8.9	25.2	17.5	46.2	1.3	8.1	8.5	1.0	0.2	0.9	6.3	11.7	1.2	0.2	Mahajanga	
					0. -5.00	550	12.4	36.0	31.0	60.3	0.9	5.9	10.0	2.1	0.4	1.1	5.0	14.6	2.4	0.7	Toamasina	
					0. -5.00	526	7.9	28.9	26.0	53.5	1.1	5.2	12.2	2.5	0.2	1.0	4.0	16.1	3.7	0.2	Toliary	
					0. -0.49	610	6.5	19.1	10.4	30.7	1.1	6.0	22.3	5.6	1.3	2.7	8.3	11.9	2.0	0.4		
					0.50-0.99	517	12.5	35.7	18.0	41.6	4.3	15.0	6.3	0.3	0.0	4.2	15.5	5.1	0.3	0.0		
					1. -1.99	1001	13.7	37.1	34.8	66.0	1.7	8.5	5.8	0.9	0.0	1.1	5.3	11.6	2.2	0.1		
					2. -2.99	869	11.2	36.4	42.5	73.4	0.5	3.9	8.6	1.5	0.8	0.5	1.6	22.1	3.3	0.9		
					3. -3.99	788	13.2	41.6	41.6	71.4	0.5	4.7	9.3	1.0	0.1	0.3	2.3	17.8	2.3	0.2		
					4. -5.00	745	8.6	39.3	32.8	66.8	0.1	2.5	7.5	1.2	0.3	0.0	1.4	10.2	1.5	0.5		
			URBAN		0. -5.00	602	7.5	28.1	24.9	51.4	0.9	4.6	9.7	1.7	0.5	0.5	3.8	13.9	2.4	0.5		
			URBAN		0. -5.00	199	8.5	30.6	26.0	54.8	0.6	4.2	10.0	1.4	0.0	0.3	3.3	15.6	1.9	0.0		
			URBAN		0. -5.00	402	7.0	26.9	24.3	49.7	1.1	4.8	9.6	1.8	0.7	0.5	4.1	13.1	2.6	0.7		
			RURAL		0. -5.00	3929	11.8	36.7	33.0	62.4	1.3	6.6	9.5	1.6	0.4	1.4	5.2	13.7	2.0	0.4		
				M	0. -5.00	2311	13.3	38.3	36.0	64.1	1.3	7.3	9.6	1.8	0.5	1.1	5.7	15.0	2.3	0.4		
				M	0. -0.49	316	7.9	19.7	12.8	33.7	1.2	6.8	23.2	6.6	2.2	2.6	8.7	13.1	3.0	0.8		
				M	0.50-0.99	246	18.3	44.6	27.1	50.7	5.3	17.4	6.1	0.2	0.0	4.1	17.7	5.7	0.2	0.0		
				M	1. -1.99	507	18.1	42.2	39.8	69.7	1.7	10.5	5.0	1.0	0.0	0.7	7.4	11.1	1.6	0.1		
				M	2. -2.99	453	11.8	38.6	47.5	75.5	0.6	4.3	7.6	1.0	0.4	0.6	2.2	21.7	2.7	0.7		
				M	3. -3.99	420	14.1	43.7	43.1	72.3	0.3	4.5	9.0	0.6	0.1	0.3	1.3	20.1	3.1	0.1		
				M	4. -5.00	369	8.9	38.0	34.2	68.3	0.0	3.7	9.9	2.2	0.6	0.0	1.7	14.5	2.7	1.0		
				F	0. -5.00	2219	9.0	32.6	27.7	57.5	1.2	5.4	9.4	1.5	0.3	1.4	4.3	12.4	1.9	0.3		
				F	0. -0.49	294	5.1	18.4	7.8	27.5	1.0	5.1	21.3	4.4	0.4	2.8	7.8	10.7	1.0	0.0		
				F	0.50-0.99	271	7.3	27.6	9.8	33.3	3.5	12.8	6.4	0.5	0.0	4.4	13.5	4.5	0.5	0.0		
				F	1. -1.99	494	9.2	31.9	29.6	62.3	1.7	6.4	6.6	0.9	0.0	1.4	3.2	12.2	2.8	0.0		
				F	2. -2.99	415	10.5	34.0	37.0	71.0	0.4	3.4	9.8	2.0	1.2	0.4	1.0	22.6	3.9	1.2		

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							Weight/age		Height/age		Weight/height					BMI / age								
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+2SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD				
National	MAY-NOV	1992		F	3. -3.99	368	12.3	39.1	40.0	70.3	0.7	5.0	9.6	1.5	0.0	0.3	3.4	15.1	1.5	0.3		00878		
				F	4. -5.00	376	8.3	40.5	31.5	65.3	0.1	1.4	5.3	0.3	0.0	0.0	1.1	6.1	0.3	0.0				
National	MAY-JUN	1993-94			0.25-4.99	3131		40.9		54.1		16.4									Converted estimates	01583		
National	JUN-JUL	1995			0. -4.99	5049		30.4		55.2		9.0									Converted estimates	01611		
National	SEP-DEC	1997			0. -2.99	3331	13.6	35.5	28.6	55.5	3.0	10.2	11.0	2.9	1.2	2.7	8.2	13.7	3.2	0.9		01864		
					0. -2.99	1003	15.4	37.4	32.4	63.5	2.6	8.7	13.4	4.2	1.5	1.9	6.4	15.0	4.2	1.0			Antananarivo	
					0. -2.99	216	6.5	26.2	22.0	43.2	1.6	5.0	9.4	2.8	0.8	1.7	4.9	10.7	1.9	0.5			Antsiranana	
					0. -2.99	753	17.2	42.2	31.6	56.6	3.0	11.5	7.1	1.5	0.5	2.9	8.5	10.4	1.8	0.2			Fianarantsoa	
					0. -2.99	456	9.6	28.8	23.1	50.0	3.5	10.1	11.8	4.1	2.3	3.1	8.1	15.3	4.3	1.7			Mahajanga	
					0. -2.99	467	13.2	35.5	31.4	57.8	4.4	12.5	9.7	1.8	1.3	3.6	11.0	14.0	3.1	1.2			Toamasina	
					0. -2.99	436	11.1	31.0	20.5	44.7	2.6	11.8	13.1	2.4	0.8	3.1	10.2	15.9	3.0	0.5			Toliary	
					0. -0.49	675	6.3	18.9	10.0	27.8	2.9	7.4	25.4	9.4	4.5	3.0	9.7	17.3	6.3	1.9				
					0.50-0.99	598	15.4	34.4	17.9	43.6	5.1	14.4	9.1	2.0	1.0	5.7	16.0	9.1	2.1	1.1				
					1. -1.99	1144	14.6	41.0	34.9	65.7	2.6	12.4	5.5	1.1	0.3	2.0	6.5	12.0	2.4	0.4				
					2. -2.99	913	16.5	41.5	41.2	70.7	2.3	6.6	8.7	1.3	0.1	1.2	3.9	16.5	2.8	0.5				
					0. -2.99	645	8.9	30.5	27.0	51.8	1.8	6.3	12.3	3.4	1.3	1.3	5.8	17.3	4.0	0.8				
					0. -2.99	2685	14.7	36.7	28.9	56.4	3.3	11.2	10.7	2.8	1.2	3.0	8.7	12.9	3.0	0.9				
					M	0. -2.99	1671	16.4	39.8	34.0	59.5	3.0	12.1	11.4	2.9	1.2	2.6	9.3	14.3	3.3			0.7	
					M	0. -0.49	335	8.2	20.3	12.4	33.0	3.6	7.7	30.4	10.9	5.1	3.6	9.6	19.8	6.2			2.0	
M	0.50-0.99	303	18.2	38.0	25.4	48.1	3.7	17.2	8.0	1.0	0.4	4.1	18.0	8.8	1.4	0.9								
M	1. -1.99	579	18.5	47.6	42.1	70.8	2.9	15.1	5.1	0.5	0.4	2.5	8.2	11.2	2.6	0.4								
M	2. -2.99	453	18.6	45.4	45.2	72.0	2.4	8.0	8.3	1.5	0.0	0.8	4.6	18.2	3.3	0.2								
F	0. -2.99	1660	10.8	31.1	23.2	51.5	3.0	8.3	10.6	3.0	1.2	2.8	7.0	13.2	3.2	1.0								
F	0. -0.49	340	4.4	17.6	7.8	22.8	2.2	7.1	20.7	7.9	3.9	2.3	9.9	14.9	6.4	1.7								
F	0.50-0.99	295	12.5	30.8	10.2	38.9	6.5	11.7	10.3	3.0	1.6	7.4	13.9	9.3	2.7	1.4								
F	1. -1.99	565	10.6	34.2	27.6	60.5	2.2	9.7	6.0	1.7	0.2	1.5	4.8	12.8	2.2	0.5								
F	2. -2.99	460	14.6	37.7	37.3	69.3	2.1	5.3	9.1	1.0	0.3	1.6	3.2	14.9	2.4	0.9								
National	NOV-MAR	2003-04			0. -5.00	5905	12.6	36.8	28.9	52.8	5.6	15.2	13.8	6.2	2.7	5.6	13.3	16.8	6.6	2.7		02673		
					0. -5.00	1585	10.7	35.0	34.4	57.8	4.7	12.2	18.2	8.2	4.8	5.1	11.6	22.2	9.9	4.9			Antananarivo	
					0. -5.00	425	10.6	28.3	21.7	43.1	7.0	14.8	14.8	8.5	2.9	7.0	13.0	17.7	8.8	2.8			Antsiranana	

**MADAGASCAR**

Admin. level	Months	Year	Area	Sex	Age group	Sample size	Percentage below / above median														Notes	Ref	
							Weight/age		Height/age		Weight/height					BMI / age							
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+2SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD			
National	NOV-MAR	2003-04	URBAN RURAL		0. -5.00	1314	14.7	40.7	26.8	52.3	8.2	19.0	14.6	8.6	3.6	7.3	16.6	15.7	7.0	3.4	Fianarantsoa Mahajanga Toamasina Toliara	02673	
					0. -5.00	798	13.3	38.7	29.7	55.6	3.7	14.5	13.6	5.0	1.5	3.7	10.7	16.7	6.5	1.7			
					0. -5.00	944	14.9	40.3	28.7	50.5	5.0	14.9	9.1	2.7	0.3	5.5	13.2	13.0	2.7	0.9			
					0. -5.00	840	11.0	32.9	24.6	49.5	5.0	16.4	9.5	3.0	1.2	5.3	14.2	12.6	3.1	0.7			
					0. -0.49	635	8.5	20.4	16.8	29.2	7.9	17.7	30.4	16.1	7.4	10.5	19.4	23.9	7.5	3.3			
					0.50-0.99	610	13.9	35.7	20.8	43.3	7.4	21.0	14.9	7.2	4.1	7.7	22.8	16.3	7.3	4.1			
					1. -1.99	1268	13.5	37.1	35.3	58.3	7.1	18.8	14.5	8.0	3.1	6.3	15.2	19.5	9.8	4.6			
					2. -2.99	1011	13.6	39.1	33.1	57.8	4.9	13.6	11.9	4.3	1.7	5.0	10.2	18.9	6.4	1.9			
					3. -3.99	1298	14.3	40.9	30.8	57.8	4.4	11.4	10.4	3.8	1.5	3.9	8.5	15.0	5.4	1.8			
					4. -5.00	1084	10.4	39.8	27.2	55.7	3.7	12.7	8.7	2.9	1.1	3.5	10.8	10.4	3.6	1.4			
					0. -5.00	1103	10.1	31.1	22.3	45.7	4.8	14.5	13.9	6.3	2.8	4.7	12.3	16.4	6.9	3.1			
					0. -5.00	4802	13.2	38.1	30.4	54.5	5.8	15.4	13.8	6.2	2.7	5.8	13.5	16.9	6.5	2.6			
					M	0. -5.00	2906	13.9	39.2	30.4	54.2	7.6	18.0	14.7	6.3	2.4	7.0	15.2	18.2	7.4			3.1
					M	0. -0.49	325	12.2	25.6	22.2	35.4	9.0	19.6	33.1	16.5	8.2	12.0	22.0	27.1	6.9			3.6
					M	0.50-0.99	314	14.9	39.8	18.4	45.0	11.2	25.8	16.1	6.1	3.4	10.7	27.1	17.9	6.7			4.7
					M	1. -1.99	583	17.6	42.7	37.8	62.8	10.6	24.4	14.2	7.9	2.0	8.2	17.2	18.6	11.3			5.5
					M	2. -2.99	497	15.2	41.0	37.5	62.6	7.4	15.6	13.8	4.1	2.4	7.1	11.5	21.1	7.7			2.4
					M	3. -3.99	648	12.5	39.1	30.3	55.2	5.5	11.7	11.2	4.0	0.6	4.5	8.5	16.7	6.0			1.3
					M	4. -5.00	539	10.7	41.8	28.5	53.9	4.4	15.7	9.1	4.0	1.0	3.7	13.4	11.9	5.4			2.0
					F	0. -5.00	2999	11.4	34.5	27.4	51.5	3.7	12.5	12.9	6.1	3.0	4.3	11.5	15.5	5.8			2.4
F	0. -0.49	310	4.5	14.9	10.9	22.3	6.7	15.8	27.7	15.6	6.7	8.9	16.7	20.7	8.2	2.9							
F	0.50-0.99	296	12.8	31.3	23.4	41.5	3.4	15.8	13.6	8.3	4.8	4.6	18.2	14.6	8.1	3.5							
F	1. -1.99	685	10.1	32.3	33.1	54.6	4.1	14.1	14.8	8.1	4.0	4.8	13.5	20.3	8.5	3.9							
F	2. -2.99	514	12.0	37.3	29.0	53.3	2.5	11.6	10.2	4.4	1.1	3.1	9.1	16.8	5.1	1.3							
F	3. -3.99	650	16.1	42.6	31.2	60.3	3.4	11.0	9.7	3.6	2.4	3.3	8.6	13.2	4.8	2.3							
F	4. -5.00	545	10.0	37.9	25.9	57.4	3.0	9.8	8.3	1.8	1.1	3.2	8.2	9.0	1.9	0.8							
National	NOV-MAY	2008-09			0. -5.00	300			28.5	51.7										Alaotra Mangoro Analamanga Analanjirifo Anamoroni'i Mania	03021		
					0. -5.00	666			23.6	47.6													
					0. -5.00	274			25.0	55.1													
					0. -5.00	230			42.5	70.3													



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							Weight/age		Height/age		Weight/height					BMI / age							
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+2SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD			
National	NOV-MAY	2008-09		M	1. -1.99	563			34.2	53.7												03021	
				M	2. -2.99	605			27.0	50.6													
				M	3. -3.99	575			31.1	57.6													
				M	4. -5.00	609			32.2	58.6													
				F	0. -5.00	2924			23.9	46.7													
				F	0. -0.49	273			10.9	22.3													
				F	0.50-0.99	293			18.7	37.8													
				F	1. -1.99	550			22.2	47.2													
				F	2. -2.99	578			28.7	49.1													
				F	3. -3.99	605			24.8	49.8													
F	4. -5.00	626			27.9	56.0																	