

MADAGASCAR

Country/Territory Administrative level	Dates of survey		Area	Sex	Age group (years)	Sample size	Percentage below/above median						Notes	Ref. No.	
	Months	Year					WEIGHT/HEIGHT			HEIGHT/AGE		WEIGHT/AGE			
							-3SD	-2SD	+2SD	-3SD	-2SD	-3SD			-2SD
National	JUL-SEP	1983-84			0. -1.99	1804	2.0	11.9	2.4	13.5	33.8	8.3	33.3		00119
					0. -0.99	1057	1.2	8.1	3.6	5.7	18.6	3.9	17.7		
					1. -1.99	747	3.1	17.2	0.5	24.8	55.7	14.5	55.4		
			URBAN		0. -1.99	890	0.5	10.8	1.7	10.3	29.9	4.3	29.5		
			URBAN		0. -0.99	546	0.3	6.6	2.6	3.7	16.1	1.5	14.4		
			URBAN		1. -1.99	344	0.9	17.5	0.3	20.8	51.7	8.9	53.5		
			RURAL		0. -1.99	914	3.5	13.0	3.0	16.7	37.6	12.1	37.0		
			RURAL		0. -0.99	511	2.2	9.8	4.7	7.9	21.2	6.4	21.3		
			RURAL		1. -1.99	403	5.0	17.0	0.7	28.2	59.1	19.2	57.1		
				M	0. -1.99	875	2.5	14.3		16.6	36.1	10.1	37.2		
			URBAN	M	0. -1.99	410	0.7	11.9	1.5	12.0	32.4	4.4	33.9		
			URBAN	M	0. -0.99	253	0.4	7.0	2.5	4.0	17.7	1.2	15.6		
			URBAN	M	1. -1.99	157	1.3	19.9	0.0	24.8	56.2	9.6	63.3		
			RURAL	M	0. -1.99	465	4.1	16.4	3.0	20.7	39.3	15.2	40.2		
			RURAL	M	0. -0.99	257	3.5	13.6	5.1	10.3	21.4	8.5	24.3		
			RURAL	M	1. -1.99	208	4.8	19.7	0.5	33.7	61.6	23.6	60.1		
				F	0. -1.99	929	1.6	9.7	2.4	10.7	31.7	6.5	29.5		
			URBAN	F	0. -1.99	480	0.4	9.8	1.8	8.9	27.7	4.3	25.8		
			URBAN	F	0. -0.99	293	0.3	6.2	2.7	3.4	14.8	1.7	13.4		
			URBAN	F	1. -1.99	187	0.5	15.4	0.5	17.4	47.9	8.4	45.2		
RURAL	F	0. -1.99	449	2.9	9.6	2.9	12.6	36.0	8.8	33.5					
RURAL	F	0. -0.99	254	0.8	5.9	4.3	5.4	20.9	4.3	18.3					
RURAL	F	1. -1.99	195	5.2	14.0	1.0	22.3	56.5	14.5	53.9					
Local	MAR	1985	URBAN		0. -4.99	1000		4.6		77.0		49.4	Antsirabe	00102	
Province	JUN	1985			0. -4.99	1000		6.2		46.4		34.4	Toamasina province	00116	
					0. -0.49							8.6	(no height measured for 0-5mo)		
					0.50-0.99			1.8		27.4		19.7			
					1. -1.99			10.4		54.9		45.5			
					2. -2.99			3.7		51.0		37.1			
					3. -3.99			5.5		53.5		38.4			
		4. -4.99			8.5		60.5		12.0						

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	Months	Year					WEIGHT/HEIGHT			HEIGHT/AGE		WEIGHT/AGE						
							-3SD	-2SD	+2SD	-3SD	-2SD	-3SD			-2SD			
Province	JUL	1986			0. -4.99	1000	5.7			36.6		26.8		Mahajanga province (no height measured for 0-5mo)	00116			
					0. -0.49						4.0							
					0.50-0.99		7.7			20.8		21.7						
					1. -1.99		9.0			44.2		38.3						
					2. -2.99		3.0			27.4		25.7						
					3. -3.99		2.8			40.0		26.8						
Local	JUN	1988	URBAN	0. -4.99	922	6.7			55.7		38.2		Taolagnaro	00102				
			URBAN	0. -4.99	1059	7.0			52.1		38.2		Vohipeno					
National	MAY-NOV	1992			0. -4.99	4240	0.3	4.7	1.0	25.0	54.1	10.1	40.9		00878			
					0. -4.99	1274	0.1	3.2	1.1	27.9	61.8	8.8	44.6			Antananarivo province		
					0. -4.99	304	0.6	6.0	0.8	17.4	39.0	5.5	29.8			Antsiranana province		
					0. -4.99	1121	0.6	6.1	0.9	32.6	61.6	16.0	49.9			Fianarantsoa province		
					0. -4.99	581	0.0	5.6	0.4	13.3	36.7	7.8	29.5			Mahajanga province		
					0. -4.99	523	0.2	3.8	0.8	24.8	54.0	9.4	38.7			Toamasina province		
					0. -4.99	437	0.7	4.4	1.7	18.4	46.1	6.2	32.1			Toliary province		
					0. -0.49	523	0.0	0.9	4.3	3.2	16.1	1.7	4.3					
					0.50-0.99	511	0.5	6.5	1.0	10.4	36.5	10.0	37.1					
					1. -1.99	981	0.8	9.8	0.5	28.5	63.1	14.4	52.4					
					2. -2.99	810	0.1	3.5	0.8	29.3	61.7	11.8	46.0					
					3. -3.99	720	0.3	3.0	0.2	34.9	64.5	11.6	46.5					
					4. -4.99	695	0.0	2.2	0.2	32.1	63.3	7.1	43.2					
					URBAN	0. -4.99	585	0.3	3.3	1.2	19.5	44.7	7.0			34.0		
					URBAN	0. -4.99	194	0.3	2.8		21.8	47.7	8.2			37.9	Antananarivo (capitale)	
					URBAN	0. -4.99	389	0.3	3.4		17.9	42.1	6.5			31.2	Autres villes	
					RURAL	0. -4.99	3655	0.3	4.9	1.9	25.9	55.6	10.6			42.0		
						M	0. -4.99	2160	0.4	5.0	0.9	26.9	56.2			11.6	41.7	
						M	0. -0.49	267	0.0	1.2	4.5	3.2	14.5			1.9	4.9	
						M	0.50-0.99	251	1.0	7.2	0.7	16.2	43.9			15.4	40.7	
	M	1. -1.99	496	0.8	10.1	0.5	31.0	66.1	19.0	54.1								
	M	2. -2.99	421	0.1	4.0	0.4	29.9	61.5	11.3	46.0								
	M	3. -3.99	383	0.3	2.8	0.1	35.3	64.7	10.7	45.1								

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							-3SD	-2SD	+2SD	-3SD	-2SD	-3SD			-2SD		
National	MAY-NOV	1992		M	4. -4.99	344	0.0	3.0	0.3	34.1	67.5	7.0	43.9		00878		
					F	0. -4.99	2080	0.3	4.3	1.0	23.1	51.9	8.6			40.1	
					F	0. -0.49	256	0.0	0.7	4.1	3.2	17.8	1.5			3.7	
					F	0.50-0.99	260	0.0	5.7	1.2	4.7	29.4	4.7			33.5	
					F	1. -1.99	485	0.9	9.5	0.5	25.9	60.1	9.6			50.7	
					F	2. -2.99	389	0.1	3.0	1.3	28.6	61.8	12.3			45.9	
					F	3. -3.99	338	0.4	3.4	0.2	34.6	64.4	12.7			48.2	
					F	4. -4.99	351	0.0	1.3	0.0	30.0	59.3	7.2			42.4	
National	MAY-JUN	1993-94			0.25-4.99	3131	2.9	14.4		25.9	48.6	15.2	45.2		01583		
					0.25-4.99	1008	2.4	13.2		28.6	54.7	14.1	46.2			Antananarivo	
					0.25-4.99	236	2.2	13.0		15.2	34.6	11.0	39.8			Antsiranana	
					0.25-4.99	599	4.1	16.4		31.4	62.5	18.0	46.4			Fianarantsoa	
					0.25-4.99	337	3.4	17.9		10.7	32.9	11.1	42.9			Mahajanga	
					0.25-4.99	473	3.2	15.7		31.1	53.6	20.1	52.6			Toamasina	
					0.25-4.99	478	2.8	12.3		25.7	45.9	14.3	39.2			Toliary	
					0.25-0.49	181	4.4	5.0		7.3	20.3	3.4	14.5				
					0.50-0.99	348	4.8	19.8		15.3	36.2	12.2	39.1				
					1. -1.99	671	4.4	20.6		33.2	54.2	20.9	55.2				
					2. -2.99	681	2.3	14.1		27.9	48.1	20.9	50.9				
					3. -3.99	626	2.0	10.9		26.7	51.1	12.7	46.5				
					4. -4.99	624	1.8	10.0		36.2	62.1	10.7	39.6				
					URBAN	0.25-4.99	1183	2.9	12.6		22.5	44.8	11.5			36.6	
					RURAL	0.25-4.99	1948	3.1	15.5		28.1	51.0	17.4			50.5	
						M	0.25-4.99	1577	3.4	15.1		27.4	49.9			15.8	46.5
	F	0.25-4.99	1554	2.5	13.8		24.4	47.2	14.6	43.9							
National	JUN-JUL	1995			0. -4.99	5049	2.3	7.4		26.9	49.8	9.9	34.1		01611		
					0. -4.99		1.4	4.7		33.2	58.4	10.5	38.0			Antananarivo	
					0. -4.99		5.8	14.4		14.3	38.1	11.6	32.9			Antsiranana	
					0. -4.99		3.3	10.6		34.2	55.8	14.4	41.9			Fianarantsoa	
					0. -4.99		2.6	7.4		18.1	39.3	5.4	26.6			Mahajanga	
					0. -4.99		1.5	5.3		27.2	52.2	8.8	35.7			Toamasina	
					0. -4.99		1.8	6.8		14.2	32.4	5.3	18.0			Toliary	

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							WEIGHT/HEIGHT			HEIGHT/AGE		WEIGHT/AGE					
	Months	Year					-3SD	-2SD	+2SD	-3SD	-2SD	-3SD			-2SD		
National	JUN-JUL	1995	URBAN		0. -4.99		1.6	5.6		25.2	47.1	7.8	30.8		01611		
			RURAL		0. -4.99		2.6	7.8		27.4	50.5	10.4	35.1				
				M	0. -4.99	2550	2.7	7.4		27.8	51.2	9.7	34.6				
				F	0. -4.99	2499	2.0	7.3		26.0	48.4	10.0	33.7				
National	SEP-DEC	1997			0. -2.99	3080	0.9	7.4	2.0	21.6	48.3	12.8	40.0		01864		
					0. -2.99	968	0.8	7.9	2.6	25.7	57.0	15.1	43.8			Antananarivo	
					0. -2.99	211	0.6	4.2	1.1	15.0	37.1	7.5	31.8			Antsiranana	
					0. -2.99	643	0.6	6.4	1.4	24.5	51.6	16.4	44.1			Fianarantsoa	
					0. -2.99	431	1.2	7.2	2.3	16.6	41.0	9.9	34.2			Mahajanga	
					0. -2.99	431	1.8	9.3	1.6	23.6	47.8	11.4	40.2			Toamasina	
					0. -2.99	396	0.6	7.6	2.0	14.0	36.5	8.7	34.3			Toliary	
					0. -0.49	573	0.9	2.7	8.1	4.0	14.0	1.4	4.8				
					0.50-0.99	578	0.8	6.5	1.9	10.2	35.3	10.9	33.9				
					1. -1.99	1078	1.4	12.2	0.3	30.0	64.6	16.7	55.5				
					2. -2.99	851	0.4	5.1	0.2	30.7	59.7	16.8	48.1				
					URBAN	0. -2.99	600	0.7	5.3	2.1	19.3	44.6	10.1			35.6	
					URBAN	0. -2.99	485	0.8	5.7		20.5	45.6	10.9			37.0	Autres villes
					URBAN	0. -2.99	115	0.4	3.9		14.2	40.5	6.9			29.3	Capitale
					RURAL	0. -2.99	2481	1.0	7.9	2.0	22.2	49.2	13.4			41.0	
					M	0. -2.99	1553	0.7	8.2	2.1	24.2	51.8	15.2			42.2	
					M	0. -0.49	282	1.1	2.9	10.1	5.4	16.6	2.2			5.0	
					M	0.50-0.99	298	0.2	6.2	1.0	14.0	39.2	12.8			35.4	
					M	1. -1.99	551	1.3	14.0	0.3	34.1	68.8	21.3			58.6	
					M	2. -2.99	421	0.0	5.7	0.0	31.1	61.9	17.4			50.5	
		F	0. -2.99	1528	1.1	6.5	1.8	19.1	44.8	10.4	37.7						
		F	0. -0.49	291	0.8	2.4	6.2	2.6	11.4	0.7	4.6						
		F	0.50-0.99	279	1.3	6.7	2.8	6.2	31.2	8.8	32.2						
		F	1. -1.99	527	1.5	10.3	0.2	25.8	60.1	11.8	52.2						
		F	2. -2.99	430	0.8	4.6	0.3	30.3	57.5	16.2	45.8						
Regional	OCT-NOV	1997	RURAL		0. -4.99	1138	0.7	7.4		9.0	32.5	5.4	30.9	Bekily	01937		
			RURAL		0. -0.49	132	0.0	6.1		0.8	9.1	0.8	5.3				
			RURAL		0.50-0.99	124	1.6	8.1		1.6	22.6	3.2	33.9				
			RURAL		1. -1.99	269	1.5	11.5		11.9	36.5	8.6	37.2				

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	Months	Year					WEIGHT/HEIGHT			HEIGHT/AGE		WEIGHT/AGE			
							-3SD	-2SD	+2SD	-3SD	-2SD	-3SD			-2SD
Regional	OCT-NOV	1997	RURAL		2. -2.99	220	0.5	6.8		11.4	33.6	8.2	39.1		01937
			RURAL		3. -3.99	218	0.4	5.1		10.9	38.5	4.1	30.2		
			RURAL		4. -4.99	174	0.0	5.1		11.5	42.0	4.6	29.3		
Regional	DEC	1997			0.50-4.99	651	0.5	8.3		26.0		28.0	Tokary (< cut-off or oedema)	01835	
National	NOV-MAR	2003-04			0. -4.99	5412	2.8	12.8		23.4	47.7	11.3	41.9		02673