

MADAGASCAR
Last Updated: 2007-10-25

Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Haemoglobin (g/L)						Mean	SD	Method	Reference	Notes	
						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
N	2003-2004	Women: Total	F	15.00- 49.99	2612	2.9										*	1
		Men: Total	M	15.00- 59.99	2535	1.1					18.5						
		Children: Total	B	0.50- 4.99	1793	3.0		68.3									
		Women by physiological status: NPNLW	F	15.00- 49.99	1611	4.2				44.9							
		Women by physiological status: PW	F	15.00- 49.99	229	1.5		50.1									
		Women by physiological status: LW	F	15.00- 49.99	772	0.6				47.0							
		Women by age	F	15.99- 19.99	485	4.0											2
		Women by age	F	20.00- 24.99	456	3.9											3
		Women by age	F	25.99- 29.99	431	3.3											4
		Women by age	F	30.00- 34.99	380	0.5											5
		Women by age	F	35.99- 39.99	331	0.2											6
		Women by age	F	40.99- 44.99	321	6.8											7
		Women by age	F	45.99- 49.99	208	0.2											8
		Women by area: Urban	F	15.00- 49.99	619	0.7											9
		Women by area: Rural	F	15.00- 49.99	1993	3.6											10
		Women by province: Antananarivo	F	15.00- 49.99	843	6.8											11
		Women by province: Fianarantso	F	15.00- 49.99	543	1.2											12
		Women by province: Toamasina	F	15.00- 49.99	414	0.4											13
		Women by province: Mahajanga	F	15.00- 49.99	324	1.2											14
		Women by province: Toliara	F	15.00- 49.99	307	0.8											15
		Women by province: Antsiranana	F	15.00- 49.99	180	2.5											16
		Men by age	M	15.00- 19.99	438						28.0						
		Men by age	M	20.00- 24.99	433						17.0						
		Men by age	M	25.00- 29.99	412						13.0						
		Men by age	M	30.00- 34.99	277						12.0						
		Men by age	M	35.00- 39.99	306						19.5						
		Men by age	M	40.00- 44.99	237						20.4						
		Men by age	M	45.00- 49.99	208						18.0						
		Men by age	M	50.00- 54.99	138						20.5						
		Men by age	M	55.00- 59.99	86						15.0						
		Men by area: Urban	M	15.00- 59.99	556						9.9						
		Men by area: Rural	M	15.00- 59.99	1979						21.0						
		Men by province: Antananarivo	M	15.00- 59.99	812						8.2						
		Men by province: Fianarantso	M	15.00- 59.99	449						22.3						
		Men by province: Toamasina	M	15.00- 59.99	441						23.4						
		Men by province: Mahajanga	M	15.00- 59.99	295						26.3						

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						70	100	110	115	120	130						
N	2003-2004	Men by province: Toliara	M	15.00- 59.99	246						20.5			B	5190		17
		Men by province: Antsiranana	M	15.00- 59.99	204						26.7						
		Children by sex	F	0.50- 4.99	900	3.8		67.6									
		Children by sex	M	0.50- 4.99	892	2.3		68.9									
		Children by age	B	0.50- 0.82	155	5.7		86.3									
		Children by age	B	0.83- 0.99	53	10.2		90.4									
		Children by age	B	1.00- 1.99	439	4.1		78.2									
		Children by age	B	2.00- 2.99	331	3.3		66.4									
		Children by age	B	3.00- 3.99	435	0.4		61.7									
		Children by age	B	4.00- 4.99	380	2.4		55.5									
		Children by area: Urban	B	0.50- 4.99	323	2.1		63.1									
		Children by area: Rural	B	0.50- 4.99	1470	3.2		69.4									
		Children by province: Antananarivo	B	0.50- 4.99	463	2.5		62.4									
		Children by province: Fianarantso	B	0.50- 4.99	402	4.0		70.9									
		Children by province: Toamasina	B	0.50- 4.99	276	3.9		68.4									
		Children by province: Mahajanga	B	0.50- 4.99	249	2.9		70.4									
		Children by province: Toliara	B	0.50- 4.99	247	2.9		72.4									
		Children by province: Antsiranana	B	0.50- 4.99	129	0.8		72.8									
N	2000	SAC: Total	B	6.00- 14.99	883	1.0				38.0			B	5090	*		
		SAC by sex	F	6.00- 14.99	440	0.7				35.0							
		SAC by sex	M	6.00- 14.99	443	1.4				41.0							
N	1997	Women: Total	F	15.00- 49.99	3529	0.9							B	1630	*	18	
		Children: Total	B	0.50- 2.99	2680	7.2		66.8									
		Women by physiological status: NPW	F	15.00- 49.99	3045	0.8				41.4							
		Women by physiological status: PW	F	15.00- 49.99	484	1.5		43.8									
		Women by area: Urban	F	15.00- 49.99	735	0.7											
		Women by area: Rural	F	15.00- 49.99	2794	0.9											
		Women by province: Antananarivo	F	15.00- 49.99	1018	0.5											
		Women by province: Fianarantsoa	F	15.00- 49.99	843	0.7											
		Women by province: Toamasina	F	15.00- 49.99	507	1.1											
		Women by province: Mahajanga	F	15.00- 49.99	475	0.9											
		Women by province: Toliary	F	15.00- 49.99	455	1.5											
		Women by province: Antsiranana	F	15.00- 49.99	231	1.8											
		Women by age	F	15.00- 19.99	446	1.5											

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						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
N	1997	Women by age	F	20.00- 24.99	902	0.7							1630		31		
		Women by age	F	25.00- 29.99	841	0.7										32	
		Women by age	F	30.00- 34.99	621	0.9										33	
		Women by age	F	35.00- 39.99	431	0.8										34	
		Women by age	F	40.00- 44.99	226	1.6										35	
		Women by age	F	45.00- 49.99	62	0.9										36	
		Children by area: Urban	B	0.50- 2.99	527	5.0			66.7								
		Children by area: Rural	B	0.50- 2.99	2153	7.8			66.9								
		Children by province: Antananarivo	B	0.50- 2.99	826	2.3			55.1								
		Children by province: Fianarantsoa	B	0.50- 2.99	604	8.7			68.2								
		Children by province: Toamasina	B	0.50- 2.99	378	12.3			76.7								
		Children by province: Mahajanga	B	0.50- 2.99	354	11.0			71.0								
		Children by province: Toliary	B	0.50- 2.99	340	4.9			70.2								
		Children by province: Antsiranana	B	0.50- 2.99	178	11.7			81.6								
		Children by age	B	0.50- 0.99	595	12.5			73.3							37	
		Children by age	B	1.00- 1.99	1155	7.5			71.9								
		Children by age	B	2.00- 2.99	930	3.5			56.3								

NOTES

MADAGASCAR

Reference No: 5190

General Notes: *Two-stage cluster sampling with probability proportionate to size stratified by area of residence (urban, rural, province); representative at urban/ rural and province level; adjustment for altitude; adjusting for smoking - women only.*

Line note 1 Prevalence of anaemia 46.0% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 2 Prevalence of anaemia 47.9% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 3 Prevalence of anaemia 44.3% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 4 Prevalence of anaemia 44.3% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 5 Prevalence of anaemia 47.2% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 6 Prevalence of anaemia 39.0% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 7 Prevalence of anaemia 53.3% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 8 Prevalence of anaemia 46.4% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 9 Prevalence of anaemia 36.5% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 10 Prevalence of anaemia 48.9% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 11 Prevalence of anaemia 34.2% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 12 Prevalence of anaemia 50.4% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 13 Prevalence of anaemia 44.0% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 14 Prevalence of anaemia 61.7% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 15 Prevalence of anaemia 46.3% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 16 Prevalence of anaemia 63.4% (Hb <110 g/L PW, Hb <120g/L NPW).

Line note 17 Sample not weighted.

Reference No: 5090

General Notes: *Facility based study (primary schools); sampling: two-stage stratified cluster sampling (1. school; 2. child) with probability proportionate to size; adjustment for altitude; disaggregated data by age, socioeconomic status, hygiene measures.*

Reference No: 1630

General Notes: *Adjustment for altitude.*

Line note 18 Prevalence of anaemia 41.7% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 19 Assuming Hb cut-off 110 g/L for children (might also be 120 g/L, contradiction in report).

Line note 20 Data adapted from reference No. 2273.

Line note 21 Data adapted from reference No. 2273.

Line note 22 Prevalence of anaemia 34.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 23 Prevalence of anaemia 43.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 24 Prevalence of anaemia 24.3% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 25 Prevalence of anaemia 46.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 26 Prevalence of anaemia 48.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

- Line note 27** Prevalence of anaemia 55.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 28** Prevalence of anaemia 40.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 29** Prevalence of anaemia 58.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 30** Prevalence of anaemia 44.7% (Hb <110 g/L PW, Hb <120 g/L NPW); data from DHS report, reference No. 2273.
- Line note 31** Prevalence of anaemia 41.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 32** Prevalence of anaemia 40.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 33** Prevalence of anaemia 40.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 34** Prevalence of anaemia 41.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 35** Prevalence of anaemia 44.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 36** Prevalence of anaemia 48.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
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- Line note 37** Sample size from DHS report, reference No. 2273.

REFERENCES

MADAGASCAR

- Reference 1630** Haggerty P, Girerd Barclay E, Dustagheer A, Randrianiriana August H, Rakotonirina S, Razafiarisoa B. Nutrition en Afrique, nutrition et santé des jeunes enfant et de leur mère à Madagascar: résultats de l'Enquête Démographique et de Santé, Madagascar 1997. Calverton, MD, United States Agency for International Development/Macro International Inc, 1999.
- Reference 5090** Razafiarisoa Berthine. Enquête sur la carence en vitamine A chez les femmes et les enfants en enquête sur l'anémie chez les écoliers de 6 à 14 ans, Madagascar 2000. Washington, DC, United States Agency for International Development Micronutrient Program, 2001.
- Reference 5190** Institut National de la Statistique, Ministère de l'Economie, des Finances et du Budget. Enquête Démographique et de Santé Madagascar 2003-2004 [Demographic Health Survey Madagascar 2003-2004]. Calverton, MD, ORC Macro, 2005.

ADDITIONAL REFERENCES

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- Reference 2273 Direction de la Démographie et des Statistiques Sociales , Institut National de la Statistique, Macro International Inc. Enquête Démographique et de Santé Madagascar 1997 [Demographic Health Survey Madagascar 1997]. 1997.
- Reference 5640 Programme National de Sécurité Alimentaire et Nutritionnelle (PNSAN). Resultats de l'enquete sur les femmes dans 4 districts sanitaires: Brickaville, Toamasina 2, Fianarantsoa 2 et Miarinarivo, 03 au 18 November 2000; draft. Programme National de Sécurité Alimentaire et Nutritionnelle, 2001.