

NICARAGUA
Last Updated: 2010-02-26

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	2005	NPW: Total	F	15.00- 49.99	431					9.2	134	12	B	5855b	*	1			
		Pre-SAC: Total	B	0.50- 4.99	497			15.8				120			11.6				2
N	2004	NPW: Total	F	15.00- 49.99	413					9.4	133	12.6	B	5855c	*	3			
		Pre-SAC: Total	B	0.50- 4.99	496			15.3				121			11.9				4
N	2003 -2005	NPW: Total	F	15.00- 49.99	1246					11.2	132	12.7	B	5855a	*	5			
		Pre-SAC: Total	B	0.50- 4.99	1466			20.1				119			11.8				6
		NPW by age	F	15.00- 19.99	128					12.8	131	14.5							7
		NPW by age	F	20.00- 29.99	683					9.9	133	11.8							8
		NPW by age	F	30.00- 39.99	325					12.4	131	12.9							9
		NPW by age	F	40.00- 49.99	110					14.7	132	14.8							10
		NPW by location: Urban	F	15.00- 49.99	741					13.1	132	13.4							11
		NPW by location: Rural	F	15.00- 49.99	505					8.6	133	11.6							12
		NPW by region: Managua	F	15.00- 49.99	378					14.0	131	13.6							13
		NPW by region: Pacifico	F	15.00- 49.99	370					14.1	132	12.5							14
		NPW by region: Rest of country	F	15.00- 49.99	498					7.2	133	12							15
		Pre-SAC by sex	F	0.50- 4.99	742			18.4			120	11.5							16
		PreSAC by sex	M	0.50- 4.99	742			21.7			119	12							17
		PreSAC by age	B	0.50- 0.99	142			38.0			113	13							18
		PreSAC by age	B	1.00- 1.99	340			29.4			116	12.5							19
		PreSAC by age	B	2.00- 2.99	308			16.4			119	11.1							20
		PreSAC by age	B	3.00- 3.99	376			15.6			121	10.6							21
		PreSAC by age	B	4.00- 4.99	300			10.7			123	10.2							22
		PreSAC by location: Urban	B	0.50- 4.99	865			16.3			121	12.2							23
		PreSAC by location: Rural	B	0.50- 4.99	601			24.9			117	10.9							24
PreSAC by region: Managua	B	0.50- 4.99	436			13.0			123	12					25				
PreSAC by region: Pacifico	B	0.50- 4.99	442			23.9			118	11.5					26				
PreSAC by region: Rest of country	B	0.50- 4.99	588			21.8			117	11.3					27				
N	2003	NPW: Total	F	15.00- 49.99	402					15.3	130	13.1	B	5855d	*	28			
		Pre-SAC: Total	B	0.50- 4.99	473			26.3				117			12.3				29
N	2000	Women: Total	F	15.00-NS	2232								B	3109	*	30			
		Pre-SAC: Total	B	0.50- 4.99	2307			33.5				113			13			31	
		Women by physiological status: NPW	F	15.00-NS	2083					22.3	127	14						32	

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						Proportion (%) of population with haemoglobin below:										General	Line		
						70	100	110	115	120	130								
N	2000	Women by physiological status: PW	F	15.00-NS	149			32.9						B	3109		33		
		NPW by age	F	15.00- 19.99	252					22.6								34	
		NPW by age	F	20.00- 24.99	569					21.6									35
		NPW by age	F	25.00- 29.99	496					18.7									36
		NPW by age	F	30.00- 34.99	315					26.6									37
		NPW by age	F	35.00- 39.99	226					26.3									38
		NPW by age	F	40.00- 44.99	139					21.1									39
		NPW by age	F	45.00-NS	86					20.3									40
		NPW by area: Urban	F	15.00-NS	1128					23.8									41
		NPW by area: Rural	F	15.00-NS	955					20.0									42
		NPW by region: Pacifico urbano	F	15.00-NS	417					24.3									43
		NPW by region: Pacifico rural	F	15.00-NS	320					22.1									44
		NPW by region: Managua	F	15.00-NS	267					24.0									45
		NPW by region: Central urbano	F	15.00-NS	291					18.8									46
		NPW by region: Central rural	F	15.00-NS	453					12.9									47
		NPW by region: Atlantico urbano	F	15.00-NS	153					36.0									48
		NPW by region: Atlantico rural	F	15.00-NS	182					31.8									49
		Pre-SAC by sex	F	0.50- 4.99	1133				32.2										50
		Pre-SAC by sex	M	0.50- 4.99	1159				34.3										51
		Pre-SAC by age	B	0.50- 0.99	267				61.8										52
		Pre-SAC by age	B	1.00- 1.99	637				54.2										53
		Pre-SAC by age	B	2.00- 2.99	604				31.9										54
		Pre-SAC by age	B	3.00- 3.99	454				20.4										55
		Pre-SAC by age	B	4.00- 4.99	345				11.6										56
		Pre-SAC by area: Urban	B	0.50- 4.99	1233				33.6										57
		Pre-SAC by area: Rural	B	0.50- 4.99	1074				33.3										58
		Pre-SAC by region: Pacifico urbano	B	0.50- 4.99	441				27.0										59
		Pre-SAC by region: Pacifico rural	B	0.50- 4.99	354				30.6										60
		Pre-SAC by region: Managua	B	0.50- 4.99	293				39.4										61
		Pre-SAC by region: Central urbano	B	0.50- 4.99	320				25.8										62
Pre-SAC by region: Central rural	B	0.50- 4.99	507				30.2										63		
Pre-SAC by region: Atlantico urbano	B	0.50- 4.99	179				50.0										64		
Pre-SAC by region: Atlantico rural	B	0.50- 4.99	213				42.8										65		
N	1993	Women: Total	F	NS	1730	0.2				33.6	114		B	806	*				
		Pre-SAC	B	1.00- 4.99	1776	1.2		28.4			106								

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						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
N	1993	Women by area: Managua Women by area: Other urban regions Women by area: Rural	F F F	NS NS NS	NS NS NS					39.2 28.9 33.4		113 115 113		B	806		

NOTES

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Reference No: 5855b

General Notes: *Multi-stage PPS cluster sampling - 50 clusters. Sample selected from 500 households with a child less than 5 years of age. Sample of nonpregnant women are either mother or nursemaid of the child. 2003 data also reported in References 4466 and 5730. 2004 data also reported in Reference 5730. Current reference has weighted values.*

Line note 1 95% CI: 6.2%, 12.2%

Line note 2 95% CI: 10.5%, 21.2%

Reference No: 5855c

General Notes: *Multi-stage PPS cluster sampling - 50 clusters. Sample selected from 500 households with a child less than 5 years of age. Sample of nonpregnant women are either mother or nursemaid of the child. 2003 data also reported in References 4466 and 5730. 2004 data also reported in Reference 5730. Current reference has weighted values.*

Line note 3 95% CI: 6.5%, 12.3%

Line note 4 95% CI: 10.2%, 20.3%

Reference No: 5855a

General Notes: *Multi-stage PPS cluster sampling - 50 clusters. Sample selected from 500 households with a child less than 5 years of age. Sample of nonpregnant women are either mother or nursemaid of the child. 2003 data also reported in References 4466 and 5730. 2004 data also reported in Reference 5730. Current reference has weighted values.*

Line note 5 95% CI: 9.3%, 13.2%

Line note 6 95% CI: 15.8%, 24.4%

Line note 7 95% CI: 7.2%, 18.4%

Line note 8 95% CI: 7.5%, 12.2%

Line note 9 95% CI: 9.3%, 13.2%

Line note 10 95% CI: 7.4%, 22.0%

Line note 11 95% CI: 10.4%, 15.8%

Line note 12 95% CI: 5.8%, 11.5%

Line note 13 95% CI: 10.9%, 17.1%

Line note 14 95% CI: 10.2%, 17.9%

Line note 15 95% CI: 4.9%, 9.4%

Line note 16 95% CI: 12.7%, 24.1%

Line note 17 95% CI: 16.7%, 26.8%

Line note 18 95% CI: 23.7%, 52.2%

Line note 19 95% CI: 20.8%, 38.1%

Line note 20 95% CI: 10.4%, 22.3%

Line note 21 95% CI: 10.5%, 20.6%

Line note 22 95% CI: 4.7%, 16.6%

Line note 23 95% CI: 12.1%, 20.5%

Line note 24 95% CI: 18.0%, 31.7%

Line note 25 95% CI: 12.3%, 12.0%

Line note 26 95% CI: 11.8%, 11.5%

Line note 27 95% CI: 11.7%, 11.3%

Reference No: 5855d

General Notes: *Multi-stage PPS cluster sampling - 50 clusters. Sample selected from 500 households with a child less than 5 years of age. Sample of nonpregnant women are either mother or nursemaid of the child. 2003 data also reported in References 4466 and 5730. 2004 data also reported in Reference 5730. Current reference has weighted values.*

Line note 28 95% CI: 11.4%, 19.1%

Line note 29 95% CI: 19.3%, 33.3%

Reference No: 3109

General Notes: *Sampling: multistage stratified cluster selection (1. departments; 2. census segments; 3. families) with probability proportion to size, 2372 out of 2537 selected families were enrolled; Hb determination only for subsample (2232 women, 2307 children).*

Line note 30 Prevalence of anaemia 22.9% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 31 Weighted prevalence value; disaggregated data by mother characteristics, family characteristics, morbidity, vitamin A and iron supplements, food consumption.

Line note 32 Weighted prevalence value; disaggregated data by literacy, education, employment, bread consumption.

Line note 33 Weighted prevalence value.

Line note 34 Weighted prevalence value.

Line note 35 Weighted prevalence value.

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Line note 65 Weighted prevalence value.

Reference No: 806

General Notes: *Sampling: multistage stratified cluster selection with probability proportion to size of preschool-age children (12-59 months) and their mothers (total n=1791 families); sample women not national representative.*

REFERENCES

NICARAGUA

- Reference 806** Ministerio de Salud, Direccion General de Promocion de la Salud, Direccion de Nutricion. Encuesta nacional sobre deficiencia de micronutrientes en Nicaragua 1993: resumen ejecutivo [National survey of micronutrient deficiencies in Nicaragua 1993: executive summary]. Managua, Ministerio de Salud, 1994.
- Reference 3109** Ministerio de Salud. Encuesta nacional de micronutrientes (ENM 2000) [National survey of micronutrients (ENM 2000)]. Managua, Ministerio de Salud, 2002.
- Reference 5855** Ministerio de Salud. Sistema integrado de vigilancia de intervenciones nutricionales (SIVIN) 2003-2005. Managua, Ministerio de Salud, 2006.

ADDITIONAL REFERENCES

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- Reference 5730 Gurdíán M, Kontorovsky I, Alvarado E, Ramírez SA, Hernández R. Sistema Integrado de Vigilancia de Intervenciones Nutricionales (SIVIN). Informe de Progreso. Nicaragua, Ministerio de Salud, 2005.