

PERU
Last Updated: 2006-11-30

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						
L	2005 P	Lambayeque and Chiclayo: Children by intervention:	B	0.50- 1.07	82			57.3				107	10	A	5122	*	
		Lambayeque and Chiclayo: Children by intervention:	B	0.50- 1.07	82			69.6				105	13				
		Lambayeque and Chiclayo: Children by intervention:	B	0.50- 1.07	73			70.7				105	10				
		Lambayeque and Chiclayo: Children by intervention:	B	0.50- 1.07	76			73.2				103	12				
N	2004 -2005	Adults: Total	B	20.00-NS	4206					12.3	137		B	5719	*		1
		Women: Total	F	20.00-NS	2037					21.0	127						2
		Men	M	20.00-NS	2015					2.7	147						3
		Adults by age	B	20.00- 29.99	NS					9.5	138						4
		Adults by age	B	30.00- 39.99	NS					15.4	136						5
		Adults by age	B	40.00- 49.99	NS					15.4	135						6
		Adults by age	B	50.00- 59.99	NS					9.2	137						7
		Adults by age	B	60.00-NS	NS					11.2	137						8
		Adults by area: Lima Metropolitana	B	20.00-NS	NS					14.1	135						9
		Adults by area: Resto de Costa	B	20.00-NS	NS					12.1	136						10
		Adults by area: Sierra urbana	B	20.00-NS	NS					10.5	139						11
		Adults by area: Sierra rural	B	20.00-NS	NS					11.6	137						12
		Adults by area: Selva	B	20.00-NS	NS					9.3	140						13
		Women by age	F	20.00- 29.99	536						126						14
		Women by age	F	30.00- 39.99	512						125						15
		Women by age	F	40.00- 49.99	457						125						16
		Women by age	F	50.00- 59.99	288						131						17
		Women by age	F	60.00-NS	244						130						18
		Women by area: Lima Metropolitana	F	20.00-NS	403						125						19
		Women by area: Resto de Costa	F	20.00-NS	412						127						20
		Women by area: Sierra urbana	F	20.00-NS	415						129						21
		Women by area: Sierra rural	F	20.00-NS	401						129						22
		Women by area: Selva	F	20.00-NS	406						132						23
N	2004	NPNLW: Total	F	15.00- 49.99	13009					38.2		B	5359	*			
		PW: Total	F	15.00- 49.99	962			42.7									
		LW: Total	F	15.00- 49.99	4049					47.3							
		Children: Total	B	0.00- 4.99	12788			50.4									
		Adolescents: Total	B	10.00- 19.99	14247												24
		NPNLW by area: Urban	F	15.00- 49.99	6592					35.1							
NPNLW by area: Rrural	F	15.00- 49.99	6417					41.5									

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						70	100	110	115	120	130						
N	2004	NPNLW by department: Amazonas	F	15.00- 49.99	424					25.3			B	5359			
		NPNLW by department: Ancash	F	15.00- 49.99	581					34.7							
		NPNLW by department: Apurimac	F	15.00- 49.99	441					41.7							
		NPNLW by department: Arequipa	F	15.00- 49.99	726					44.1							
		NPNLW by department: Ayacucho	F	15.00- 49.99	395					27.6							
		NPNLW by department: Cajamarca	F	15.00- 49.99	689					36.3							
		NPNLW by department: Cusco	F	15.00- 49.99	406					33.1							
		NPNLW by department: Huancavelica	F	15.00- 49.99	423					34.3							
		NPNLW by department: Huanuco	F	15.00- 49.99	582					44.2							
		NPNLW by department: Ica	F	15.00- 49.99	713					39.3							
		NPNLW by department: Junin	F	15.00- 49.99	621					35.8							
		NPNLW by department: La Libertad	F	15.00- 49.99	637					33.3							
		NPNLW by department: Lambayeque	F	15.00- 49.99	635					24.9							
		NPNLW by department: Lima	F	15.00- 49.99	604					43.9							
		NPNLW by department: Loreto	F	15.00- 49.99	377					32.6							
		NPNLW by department: Madre de Dios	F	15.00- 49.99	358					32.5							
		NPNLW by department: Moquegua	F	15.00- 49.99	736					37.5							
		NPNLW by department: Pasco	F	15.00- 49.99	364					53.5							
		NPNLW by department: Piura	F	15.00- 49.99	546					26.9							
		NPNLW by department: Puno	F	15.00- 49.99	629					50.9							
		NPNLW by department: San Martin	F	15.00- 49.99	507					20.0							
		NPNLW by department: Tacna	F	15.00- 49.99	474					36.3							
		NPNLW by department: Tumbes	F	15.00- 49.99	624					22.4							
		NPNLW by department: Ucayali	F	15.00- 49.99	517					42.7							
		PW by area: Urban	F	15.00- 49.99	387			39.8									
		PW by area: Rural	F	15.00- 49.99	575			44.8									
		PW by department: Amazonas	F	15.00- 49.99	22			37.1									
		PW by department: Ancash	F	15.00- 49.99	53			46.7									
		PW by department: Apurimac	F	15.00- 49.99	26			54.2									
		PW by department: Arequipa	F	15.00- 49.99	50			50.3									
		PW by department: Ayacucho	F	15.00- 49.99	33			41.8									
		PW by department: Cajamarca	F	15.00- 49.99	47			36.6									
		PW by department: Cusco	F	15.00- 49.99	40			42.4									
		PW by department: Huancavelica	F	15.00- 49.99	35			45.8									
		PW by department: Huanuco	F	15.00- 49.99	41			41.7									
		PW by department: Ica	F	15.00- 49.99	47			49.1									

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						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
N	2004	PW by department: Junin	F	15.00- 49.99	52			34.0					5359				
		PW by department: La Libertad	F	15.00- 49.99	51			40.7									
		PW by department: Lambayeque	F	15.00- 49.99	38			19.6									
		PW by department: Lima	F	15.00- 49.99	52			47.8									
		PW by department: Loreto	F	15.00- 49.99	42			47.4									
		PW by department: Madre de Dios	F	15.00- 49.99	41			45.5									
		PW by department: Moquegua	F	15.00- 49.99	40			54.9									
		PW by department: Pasco	F	15.00- 49.99	37			36.5									
		PW by department: Piura	F	15.00- 49.99	39			24.7									
		PW by department: Puno	F	15.00- 49.99	34			42.8									
		PW by department: San Martin	F	15.00- 49.99	30			32.5									
		PW by department: Tacna	F	15.00- 49.99	22			36.0									
		PW by department: Tumbes	F	15.00- 49.99	35			30.7									
		PW by department: Ucayali	F	15.00- 49.99	55			51.0									
		LW by area: Urban	F	15.00- 49.99	1625					44.1							
		LW by area: Rural	F	15.00- 49.99	2424					49.4							
		LW by department: Amazonas	F	15.00- 49.99	106					48.5							
		LW by department: Ancash	F	15.00- 49.99	221					38.6							
		LW by department: Apurimac	F	15.00- 49.99	144					60.4							
		LW by department: Arequipa	F	15.00- 49.99	224					49.6							
		LW by department: Ayacucho	F	15.00- 49.99	165					35.3							
		LW by department: Cajamarca	F	15.00- 49.99	213					40.6							
		LW by department: Cusco	F	15.00- 49.99	186					49.9							
		LW by department: Huancavelica	F	15.00- 49.99	131					52.5							
		LW by department: Huanuco	F	15.00- 49.99	229					48.2							
		LW by department: Ica	F	15.00- 49.99	153					39.1							
		LW by department: Junin	F	15.00- 49.99	250					47.5							
		LW by department: La Libertad	F	15.00- 49.99	220					42.0							
		LW by department: Lambayeque	F	15.00- 49.99	167					32.8							
		LW by department: Lima	F	15.00- 49.99	156					53.0							
		LW by department: Loreto	F	15.00- 49.99	142					44.9							
		LW by department: Madre de Dios	F	15.00- 49.99	147					43.6							
		LW by department: Moquegua	F	15.00- 49.99	211					50.9							
		LW by department: Pasco	F	15.00- 49.99	135					60.8							
		LW by department: Piura	F	15.00- 49.99	131					35.2							
		LW by department: Puno	F	15.00- 49.99	144					60.7							

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						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
N	2004	LW by department: San Martin	F	15.00- 49.99	118					41.0			B	5359			
		LW by department: Tacna	F	15.00- 49.99	131					49.5							
		LW by department: Tumbes	F	15.00- 49.99	143					34.7							
		LW by department: Ucayali	F	15.00- 49.99	182					52.3							
		Children by area: Urban	B	0.00- 4.99	5540				46.5								
		Children by area: Rural	B	0.00- 4.99	7248				53.5								
		Children by department: Amazonas	B	0.00- 4.99	386				40.4								
		Children by department: Ancash	B	0.00- 4.99	629				51.8								
		Children by department: Apurimac	B	0.00- 4.99	454				54.3								
		Children by department: Arequipa	B	0.00- 4.99	773				57.6								
		Children by department: Ayacucho	B	0.00- 4.99	426				47.5								
		Children by department: Cajamarca	B	0.00- 4.99	680				49.3								
		Children by department: Cusco	B	0.00- 4.99	511				56.1								
		Children by department: Huancavelica	B	0.00- 4.99	448				57.6								
		Children by department: Huanuco	B	0.00- 4.99	630				56.5								
		Children by department: Ica	B	0.00- 4.99	535				44.9								
		Children by department: Junin	B	0.00- 4.99	743				45.4								
		Children by department: La Libertad	B	0.00- 4.99	703				37.3								
		Children by department: Lambayeque	B	0.00- 4.99	592				31.7								
		Children by department: Lima	B	0.00- 4.99	484				58.4								
		Children by department: Loreto	B	0.00- 4.99	414				43.7								
		Children by department: Madre de Dios	B	0.00- 4.99	432				53.1								
		Children by department: Moquegua	B	0.00- 4.99	688				53.5								
		Children by department: Pasco	B	0.00- 4.99	338				60.3								
		Children by department: Piura	B	0.00- 4.99	473				36.8								
		Children by department: Puno	B	0.00- 4.99	571				54.6								
		Children by department: San Martin	B	0.00- 4.99	495				31.2								
		Children by department: Tacna	B	0.00- 4.99	418				49.1								
		Children by department: Tumbes	B	0.00- 4.99	449				37.5								
		Children by department: Ucayali	B	0.00- 4.99	516				63.0								
		Adolescents by sex	F	10.00- 19.99	7379											25	
		Adolescents by sex	M	10.00- 19.99	6868											26	
		Adolescents by age	B	10.00- 14.99	8863											27	
		Adolescents by age	B	15.00- 19.99	5384											28	
		Adolescents by area: Urban	B	10.00- 19.99	6334											29	
		Adolescents by area: Rural	B	10.00- 19.99	7913											30	

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						Proportion (%) of population with haemoglobin below:										General	Line				
						70	100	110	115	120	130										
N	2004	Adolescents by department: Amazonas	B	10.00- 19.99	540									B	5359		31				
		Adolescents by department: Ancash	B	10.00- 19.99	636														32		
		Adolescents by department: Apurimac	B	10.00- 19.99	572															33	
		Adolescents by department: Arequipa	B	10.00- 19.99	561															34	
		Adolescents by department: Ayacucho	B	10.00- 19.99	595															35	
		Adolescents by department: Cajamarca	B	10.00- 19.99	765															36	
		Adolescents by department: Cusco	B	10.00- 19.99	539															37	
		Adolescents by department: Huancavelica	B	10.00- 19.99	545															38	
		Adolescents by department: Huanuco	B	10.00- 19.99	702															39	
		Adolescents by department: Ica	B	10.00- 19.99	722															40	
		Adolescents by department: Junin	B	10.00- 19.99	651															41	
		Adolescents by department: La Libertad	B	10.00- 19.99	688															42	
		Adolescents by department: Lambayeque	B	10.00- 19.99	719															43	
		Adolescents by department: Lima	B	10.00- 19.99	534															44	
		Adolescents by department: Loreto	B	10.00- 19.99	529															45	
		Adolescents by department: Madre de Dios	B	10.00- 19.99	529															46	
		Adolescents by department: Moquegua	B	10.00- 19.99	678															47	
		Adolescents by department: Pasco	B	10.00- 19.99	535															48	
		Adolescents by department: Piura	B	10.00- 19.99	296															49	
		Adolescents by department: Puno	B	10.00- 19.99	686															50	
		Adolescents by department: San Martin	B	10.00- 19.99	583															51	
		Adolescents by department: Tacna	B	10.00- 19.99	446															52	
		Adolescents by department: Tumbes	B	10.00- 19.99	615															53	
		Adolescents by department: Ucayali	B	10.00- 19.99	581															54	
N	2003	Women: Total	F	NS	2790	0.0				32.9	124	13	B	5532	*		55				
		PW	F	NS	119	0.7				31.9										56	
		Children: Total	B	1.00- 2.99	2908	1.7		57.1			106	15								57	
		Women by area: Urban	F	NS	NS					27.9	125	13									
		Women by area: Rural	F	NS	NS					44.3	121	14									
		Women by department: Amazonas	F	NS	118	1.7				35.6	123	18									
		Women by department: Ancash	F	NS	109	0.0				35.8	123	11									
		Women by department: Apurimac	F	NS	113	0.0				27.4	126	12									
		Women by department: Arequipa	F	NS	112	0.0				32.1	125	13									
		Women by department: Ayacucho	F	NS	114	0.0				35.1	123	13									
		Women by department: Cajamarca	F	NS	112	0.0				30.4	125	13									

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						70	100	110	115	120	130								
N	2003	Women by department: Cusco	F	NS	113	0.0				46.9	121	13	B	5532					
		Women by department: Huancavelica	F	NS	118	0.0				525.0	120	14							
		Women by department: Huanuco	F	NS	117	0.0				37.6	124	14							
		Women by department: Ica	F	NS	113	0.0				28.3	126	11							
		Women by department: Junin	F	NS	117	0.0				47.9	120	14							
		Women by department: La Libertad	F	NS	111	0.0				36.9	124	15							
		Women by department: Lambayeque	F	NS	119	0.0				37.0	124	15							
		Women by department: Lima	F	NS	138	0.0				22.5	125	11							
		Women by department: Loreto	F	NS	115	0.0				34.8	123	12							
		Women by department: Madre de Dios	F	NS	116	0.0				31.9	124	14							
		Women by department: Moquegua	F	NS	119	0.0				27.7	126	13							
		Women by department: Pasco	F	NS	119	0.0				59.7	115	18							
		Women by department: Piura	F	NS	112	0.0				26.8	126	11							
		Women by department: Puna	F	NS	117	0.0				61.5	113	14							
		Women by department: San Martin	F	NS	116	0.0				30.2	127	14							
		Women by department: Tacna	F	NS	120	0.0				28.3	125	13							
		Women by department: Tumbes	F	NS	112	0.0				23.2	127	12							
		Women by department: Ucayali	F	NS	120	0.0				33.3	126	17							
		Children by sex	F	1.00- 2.99	1396			57.3											58
		Children by sex	M	1.00- 2.99	1512			56.8											59
		Children by age	B	1.00- 1.99	1408	2.4		66.0											60
		Children by age	B	2.00- 2.99	1500	1.0		48.9											61
		Children by area: Urban	B	1.00- 2.99	1748			52.3			108	14							
		Children by area: Rural	B	1.00- 2.99	1160			68.9			102	15							
		Children by department: Amazonas	B	1.00- 2.99	120	3.3		60.8			103	15							
		Children by department: Ancash	B	1.00- 2.99	120	1.7		63.3			104	15							
		Children by department: Apurimac	B	1.00- 2.99	120	1.7		68.3			103	14							
		Children by department: Arequipa	B	1.00- 2.99	120	0.8		59.2			106	14							
		Children by department: Ayacucho	B	1.00- 2.99	120	4.2		74.2			99	16							
		Children by department: Cajamarca	B	1.00- 2.99	120	0.0		54.2			108	13							
		Children by department: Cusco	B	1.00- 2.99	120	1.7		70.0			103	13							
		Children by department: Huancavelica	B	1.00- 2.99	120	1.7		75.8			102	12							
		Children by department: Huanuco	B	1.00- 2.99	119	4.2		67.2			102	17							
Children by department: Ica	B	1.00- 2.99	120	1.7		65.8			104	13									
Children by department: Junin	B	1.00- 2.99	120	5.0		71.1			99	17									
Children by department: La Libertad	B	1.00- 2.99	120	0.8		57.5			106	14									

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						70	100	110	115	120	130								
N	2003	Children by department: Lambayeque	B	1.00- 2.99	120	1.7		54.2				107	15	B	5532				
		Children by department: Lima	B	1.00- 2.99	146	0.7		44.5				111	14						
		Children by department: Loreto	B	1.00- 2.99	120	0.0		55.0				107	11						
		Children by department: Madre de Dios	B	1.00- 2.99	120	2.5		69.2				103	14						
		Children by department: Moquegua	B	1.00- 2.99	120	0.8		68.3				102	14						
		Children by department: Pasco	B	1.00- 2.99	120	9.2		80.0				94	19						
		Children by department: Piura	B	1.00- 2.99	120	0.0		49.2				109	12						
		Children by department: Puna	B	1.00- 2.99	120	8.3		85.8				93	16						
		Children by department: San Martin	B	1.00- 2.99	120	0.0		51.7				108	12						
		Children by department: Tacna	B	1.00- 2.99	123	0.0		62.6				105	14						
		Children by department: Tumbes	B	1.00- 2.99	120	0.8		59.2				106	13						
		Children by department: Ucayali	B	1.00- 2.99	120	1.7		58.3				107	14						
		LU	2001 -2002	Collique: Children	B	0.50- 2.99	1680	0.5		43.0							B	4966	*
L	2000 P	Lima: Adolescent girls	F	12.00- 17.99	121					14.0			A	2755	*	63			
N	2000	Women: Total	F	15.00- 49.99	6184	0.3								B	3148	*	64		
		Children: Total	B	0.50- 4.99	2150	1.3		49.6											
		Women by physiological status: NPNLW	F	15.00- 49.99	4986	0.2				29.6									
		Women by physiological status: PW	F	15.00- 49.99	274	2.0		38.6											
		Women by physiological status: LW	F	15.00- 49.99	911	0.2				40.0									
		Women by age	F	15.00- 19.99	1229	0.2													66
		Women by age	F	20.00- 24.99	1095	0.0													67
		Women by age	F	25.00- 29.99	926	0.5													68
		Women by age	F	30.00- 34.99	949	0.1													69
		Women by age	F	35.00- 39.99	787	0.4													70
		Women by age	F	40.00- 44.99	661	0.5													71
		Women by age	F	45.00- 49.99	537	0.8													72
		Women by area: Urban	F	15.00- 49.99	4277	0.3													73
		Women by area: Rural	F	15.00- 49.99	1907	0.4													74
		Women by region: Lima Metropolitana	F	15.00- 49.99	1859	0.3													75
		Women by region: Resto Costa	F	15.00- 49.99	1605	0.2													76
Women by region: Sierra	F	15.00- 49.99	1989	0.4									77						
Women by region: Selva	F	15.00- 49.99	731	0.3									78						
Women by department: Amazonas	F	15.00- 49.99	75	0.0									79						

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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	2000	Children by region: Sierra	B	0.50- 4.99	829	2.0		56.2						B	3148		
		Children by region: Selva	B	0.50- 4.99	326	0.7		41.4									
		Children by department: Amazonas	B	0.50- 4.99	35	0.0		41.9									
		Children by department: Ancash	B	0.50- 4.99	88	0.0		48.1									
		Children by department: Apurimac	B	0.50- 4.99	49	2.1		47.2									
		Children by department: Arequipa	B	0.50- 4.99	55	7.8		39.2									
		Children by department: Ayacucho	B	0.50- 4.99	39	0.9		52.7									
		Children by department: Cajamarca	B	0.50- 4.99	144	1.1		52.7									
		Children by department: Cusco	B	0.50- 4.99	142	4.3		70.7									
		Children by department: Huancavelica	B	0.50- 4.99	54	0.8		58.6									
		Children by department: Huánuco	B	0.50- 4.99	81	2.6		56.1									
		Children by department: Ica	B	0.50- 4.99	44	1.8		26.3									
		Children by department: Junin	B	0.50- 4.99	109	1.1		54.4									
		Children by department: La Libertad	B	0.50- 4.99	133	2.0		38.0									
		Children by department: Lambayeque	B	0.50- 4.99	91	2.8		51.4									
		Children by department: Lima	B	0.50- 4.99	569	0.0		47.0									
		Children by department: Loreto	B	0.50- 4.99	114	0.0		38.9									
		Children by department: Madre de Dios	B	0.50- 4.99	6	1.1		54.8									
		Children by department: Moquegua	B	0.50- 4.99	6	0.0		26.3									
		Children by department: Pasco	B	0.50- 4.99	22	1.1		36.3									
Children by department: Piura	B	0.50- 4.99	163	1.0		56.0											
Children by department: Puno	B	0.50- 4.99	83	1.1		61.8											
Children by department: San Martin	B	0.50- 4.99	51	0.0		31.9											
Children by department: Tacna	B	0.50- 4.99	15	2.3		62.8											
Children by department: Tumbes	B	0.50- 4.99	21	2.1		54.3											
Children by department: Ucayali	B	0.50- 4.99	36	2.1		49.0											
L	1996	Lima: Adolescent girls: Total	F	12.00- 18.99	296				17.9				A	2754		*	
		Lima: Adolescent girls by intervention: Daily iron	F	12.00- 18.99	101				19.8	126	9						103
		Lima: Adolescent girls by intervention: Intermittent ir	F	12.00- 18.99	98				18.4	127	9						104
		Lima: Adolescent girls by intervention: Placebo	F	12.00- 18.99	97				15.5	128	11						105
N	1996	Women: Total	F	15.00- 49.99	2274	0.5							B	4647		*	106
		Children: Total	B	0.50- 4.99	1046	1.5	56.8									107	
		Women by physiological status: NPNLW	F	15.00- 49.99	1727	0.5			32.8								
		Women by physiological status: PW	F	15.00- 49.99	119	0.0	35.2										

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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	1996	Women by physiological status: LW	F	15.00- 49.99	440	0.4					47.1			B	4647				
		Women by age	F	15.00- 19.99	445	0.1												108	
		Women by age	F	20.00- 24.99	432	0.3													109
		Women by age	F	25.00- 29.99	380	0.5													110
		Women by age	F	30.00- 34.99	343	0.6													111
		Women by age	F	35.00- 39.99	273	1.6													112
		Women by age	F	40.00- 44.99	258	0.0													113
		Women by age	F	45.00- 49.99	143	0.2													114
		Women by area: Urban	F	15.00- 49.99	1675	0.5													115
		Women by area: Rural	F	15.00- 49.99	598	0.3													116
		Women by region: Lima Metropolitana	F	15.00- 49.99	828	0.3													117
		Women by region: Resto Costa	F	15.00- 49.99	527	0.3													118
		Women by region: Sierra	F	15.00- 49.99	674	0.9													119
		Women by region: Selva	F	15.00- 49.99	244	0.0													120
		Children by sex	F	0.50- 4.99	528	1.3			56.1										
		Children by sex	M	0.50- 4.99	517	1.7			57.4										
		Children by age	B	0.50- 0.99	109	4.1			78.6										
		Children by age	B	1.00- 1.99	242	3.7			75.6										
		Children by age	B	2.00- 2.99	217	0.0			58.7										
		Children by age	B	3.00- 3.99	264	0.6			48.4										
		Children by age	B	4.00- 4.99	214	0.6			32.8										
		Children by area: Urban	B	0.50- 4.99	662	1.1			56.9										
		Children by area: Rural	B	0.50- 4.99	383	2.3			56.6										
		Children by region: Lima Metropolitana	B	0.50- 4.99	307	0.3			55.4										
		Children by region: Resto Costa	B	0.50- 4.99	225	1.3			55.8										
		Children by region: Sierra	B	0.50- 4.99	380	2.4			60.5										
		Children by region: Selva	B	0.50- 4.99	134	2.4			50.8										
		L	1995 -1997	Lima: PW:Total	F	NS	645			32.6						A	2752	*	121
Lima: PW by intervention: Iron-folate	F			NS	320					115	14							122	
Lima: PW by intervention: Iron-folate-zinc	F			NS	325					116	12							123	
Lima: Newborns by intervention: Iron-folate	B			0.00	270					177	24								
Lima: Newborns by intervention: Iron-folate-zinc	B			0.00	275					175	23								
L	1993 -1995	Pucallpa: PW: Total	F	13.00- 46.99	1015	4.4		70.3						A	4244	*	124		
		Pucallpa: PW by age	F	13.00- 19.99	245			72.7										125	

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Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Haemoglobin (g/L)						Reference	Notes				
						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
L	1993 -1995	Pucallpa: PW by age Pucallpa: PW by age	F F	20.00- 35.99 36.00- 46.99	701 69			69.1 74.4					A	4244		126 127	
RU	1991 -1993	Lima Region: Children Libertadores-Wari Region: Children	B B	NS- 2.99 NS- 2.99	280 186			21.8 79.6					D	933	*		
L	1987 -1988	Northern Peru: All	B	0.00-NS	331								B	2756	*	128	
L	1968 P	Amazon Basin: SAC	B	7.00- 13.99	130		23.8						D	2831	*		

NOTES

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Reference No: 5122

General Notes: *Baseline values of intervention study; survey in periurban communities of cities of Lambayeque and Chiclayo; exclusion criteria: premature birth, low birth weight, congenital defects, chronic infection, severe wasting, fever, Hb <80 g/L; no child excluded due to Hb <80 g/L.*

Reference No: 5719

General Notes: *Sampling: multi-stage cluster sampling stratified by 5 strata (Lima Metropolitana, Resto de Costa, Sierra urbana, Sierra rural and Selva); adjustment for altitude; Hb cut-off levels for men not according to WHO recommendations (please see 'Key to the data tables').*

Line note 1 Standard error mean: 0 g/L (sample size provided for mean: n= 4055).

Line note 2 Standard error mean: 1 g/L.

Line note 3 Standard error mean: 0 g/L.

Line note 4 Standard error mean: 1 g/L (sample size provided for mean: n= 997).

Line note 5 Standard error mean: 1 g/L (sample size provided for mean: n= 991).

Line note 6 Standard error mean: 1 g/L (sample size provided for mean: n= 870).

Line note 7 Standard error mean: 1 g/L (sample size provided for mean: n= 568).

Line note 8 Standard error mean: 1 g/L (sample size provided for mean: n= 626).

Line note 9 Standard error mean: 0 g/L (sample size provided for mean: n= 805).

Line note 10 Standard error mean: 1 g/L (sample size provided for mean: n= 817).

Line note 11 Standard error mean: 0 g/L (sample size provided for mean: n= 829).

Line note 12 Standard error mean: 1 g/L (sample size provided for mean: n= 801).

Line note 13 Standard error mean: 1 g/L (sample size provided for mean: n= 803).

Line note 14 Standard error mean: 1.3 g/L.

Line note 15 Standard error mean: 1.2 g/L.

Line note 16 Standard error mean: 1.7 g/L.

Line note 17 Standard error mean: 1.4 g/L.

Line note 18 Standard error mean: 1.4 g/L.

Line note 19 Standard error mean: 1.1 g/L.

Line note 20 Standard error mean: 1.1 g/L.

Line note 21 Standard error mean: 1.2 g/L.

Line note 22 Standard error mean: 2.3 g/L.

Line note 23 Standard error mean: 1.5 g/L.

Reference No: 5359

General Notes: *Sampling: multistage cluster sampling with probability proportionate to size; adjustment for altitude.*

Line note 24 Prevalence of anaemia: 32.6% (Hb <115 g/L both sexes 10-11 yrs, Hb <120 g/L both sexes, 12-14 yrs, Hb <120 g/L female 15-19 yrs, Hb <130 g/L male 15-19 yrs).

Line note 25 Prevalence of anaemia: 33.1% (Hb <115 g/L 10-11 yrs, Hb <120 g/L 12-14 yrs, Hb <120 g/L 15-19 yrs).

Line note 26 Prevalence of anaemia: 32.2% (Hb <115 g/L 10-11 yrs, Hb <120 g/L 12-14 yrs, Hb <130 g/L 15-19 yrs).

- Reference No:** 4966
General Notes: *Study in Collique, a peri-urban shanty town of Lima; baseline values of intervention study; sampling: through a local census all children aged 6-35 months were tried to be identified, 1680 out of 1800 attended the initial screening for anaemia; values for other Hb cut-off levels.*
Line note 62 Disaggregated data by intervention.
- Reference No:** 2755
General Notes: *Baseline values of intervention study; sampling: random selection of 1. eight communities; 2. one community kitchen within each community; 3. adolescent girls from the lists of members and beneficiaries from each selected community kitchen, 72 and 66 girls were enrolled initially for the intervention and control group respectively; Hb determination only for subsample (n=71 intervention, n=50 control); inclusion only of nonpregnant, nonlactating girls aged 12-17.9 yrs.*
Line note 63 Prevalence of iron deficiency 18.2% (serum ferritin <12 µg/L); disaggregated data by intervention.
- Reference No:** 3148
General Notes: *Sampling: multiple stratified random selection, 29.422 women aged 15-49 yrs and their children aged <5 yrs were selected out of 33 046 families (27 843 women and 12 222 children were enrolled); sample children not national representative; Hb determination only for subsample (5984 families); adjustment for altitude.*
Line note 64 Prevalence of anaemia 31.6% (Hb <110 g/L PW, Hb <120 g/L NPW); disaggregated data by parity, education, urbanisation, use of intra-uterine device.
Line note 65 Disaggregated data by birth order, birth interval, maternal education, urbanisation.
- Line note 66** Prevalence of anaemia 29.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 67 Prevalence of anaemia 30.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 68 Prevalence of anaemia 30.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 69 Prevalence of anaemia 30.5% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 70 Prevalence of anaemia 39.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 71 Prevalence of anaemia 31.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 72 Prevalence of anaemia 31.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 73 Prevalence of anaemia 29.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 74 Prevalence of anaemia 37.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 75 Prevalence of anaemia 30.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 76 Prevalence of anaemia 31.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 77 Prevalence of anaemia 33.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 78 Prevalence of anaemia 27.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 79 Prevalence of anaemia 31.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 80 Prevalence of anaemia 36.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 81 Prevalence of anaemia 27.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 82 Prevalence of anaemia 18.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 83 Prevalence of anaemia 45.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 84 Prevalence of anaemia 35.5% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 85 Prevalence of anaemia 40.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 86 Prevalence of anaemia 39.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 87 Prevalence of anaemia 25.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 88 Prevalence of anaemia 25.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 89 Prevalence of anaemia 23.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 90 Prevalence of anaemia 27.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 91 Prevalence of anaemia 37.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 92 Prevalence of anaemia 32.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 93 Prevalence of anaemia 16.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 94 Prevalence of anaemia 34.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 95 Prevalence of anaemia 19.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 96 Prevalence of anaemia 21.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 97 Prevalence of anaemia 31.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 98 Prevalence of anaemia 45.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 99 Prevalence of anaemia 28.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 100 Prevalence of anaemia 39.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 101 Prevalence of anaemia 31.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 102 Prevalence of anaemia 27.4% (Hb <110 g/L PW, Hb <120 g/L NPW).

Reference No: 2754

General Notes: *Facility based study (public secondary school) in Villa El Salvador, a periurban shanty town in Lima; same study as reference No. 4879; baseline values of intervention study (daily iron, intermittent iron, placebo); sampling: design not explained, 312 girls started the trial and 16 dropped out of the study; inclusion only of subjects who were living in the community for at least 6 months before the study, were healthy, nulliparous, menstruating regularly in the last 6 months, who had not taken any multivitamin-mineral supplement in the last 6 months and had Hb >80 g/L.*

Line note 103 Mean (SD) age 15.3 (1.6) yrs.
Line note 104 Mean (SD) age 15.1 (1.6) yrs.
Line note 105 Mean (SD) age 15.3 (1.5) yrs.

Reference No: 4647

General Notes: *Sampling: multiple stratified random selection, 31 241 women aged 15-49 yrs and their children aged <5 yrs were selected out of 33 498 families (28 951 women and 13 431 children were enrolled); sample children not national representative; Hb determination only for subsample (2818 families); adjustment for altitude.*

Line note 106 Prevalence of anaemia 35.7% (Hb <110 g/L PW, Hb <120 g/L NPW); disaggregated data by education, urbanisation, use of intra-uterine device.
Line note 107 Disaggregated data by birth order, birth interval, maternal education, urbanisation.

Line note 108 Prevalence of anaemia 31.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 109 Prevalence of anaemia 37.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 110 Prevalence of anaemia 33.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 111 Prevalence of anaemia 40.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 112 Prevalence of anaemia 37.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 113 Prevalence of anaemia 38.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 114 Prevalence of anaemia 31.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 115 Prevalence of anaemia 34.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 116 Prevalence of anaemia 40.5% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 117 Prevalence of anaemia 34.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 118 Prevalence of anaemia 33.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 119 Prevalence of anaemia 41.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 120 Prevalence of anaemia 28.8% (Hb <110 g/L PW, Hb <120 g/L NPW).

Reference No: 2752

General Notes: *Facility based study (hospital); baseline values of intervention study (iron-folate supplements, iron-folate-zinc supplements); sampling: design not explained, 1295 PW were enrolled initially, 279 dropped out of the study; inclusion only of PW receiving prenatal care between 10 and 24 wks gestation, who had low risk, singleton pregnancies, were eligible for vaginal delivery and who had been living in Lima or other coastal regions of Peru for >=6 months before pregnancy; Hb determination only for subsample (3 time points and umbilical cord at delivery).*

Line note 121 Prevalence value calculated.

Line note 122 Mean (SD) age 25.3 (5.5) yrs.

Line note 123 Mean (SD) age 24.2 (5.3) yrs.

Reference No: 4244

General Notes: *Facility based study (Hospital Regional de Pucallpa); sampling: all 1015 PW based on registries of prenatal control and childbirth services during the survey period were enrolled; Hb determination in 3rd trimester of pregnancy.*

Line note 124 95% CI: 65.8%, 74.8%; disaggregated data by parity, education, weight increase.

Line note 125 Sample size calculated; 95% CI: 65.2%, 80.1%.

Line note 126 Sample size calculated; 95% CI: 64.6%, 73.6%.

Line note 127 Sample size calculated; 95% CI: 60.7%, 88.1%.

Reference No: 933

General Notes: *Study in Lima Region (Lima city and constitutional Province of Callao) conducted May-September 1991 and in Libertadores-Wari Region (cities: Huanta, Huamanga, Ica and Pisco) conducted October 1992-April 1993; sampling: multiple stratified random selection proportional to size; method: fotocolorimétrico; adjustment for altitude.*

Reference No: 2756

General Notes: *Study among the Aguaruna and Haumbisa Indian communities living in the jungle of northern Peru; sampling: families were randomly selected, an average of 25 people being tested in each of 17 communities.*

Line note 128 Prevalence of anaemia 55.0% (Hb <110 g/L both sexes 1-5 yrs, Hb <120 g/L both sexes 6-14 yrs, females >=15 yrs, Hb <130 g/L males >=15 yrs); disaggregated data by sex, age.

Reference No: 2831

General Notes: *Facility based study (school); baseline values of intervention study; method: photocolorimeter; sampling: all prepubertal students in the same school aged 7-13 yrs were included, n=144; Hb cut-off level not according to WHO recommendations (please see 'Key to the data tables').*

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