

CAMBODIA
Last Updated: 2007-10-01

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						
N	2005 -2006	Women: Total	F	15.00- 49.99	8219	1.0							B	5646	*	1	
		Pre-SAC: Total	B	0.50- 4.99	3158	0.7		61.9									
		Women by physiological status: NPNLW	F	15.00- 49.99	6408	0.9				44.3							
		Women by physiological status: PW	F	15.00- 49.99	486	3.4		57.1									
		Women by physiological status: LW	F	15.00- 49.99	1325	0.8				53.6							
		Women by age	F	15.00- 19.99	1691	1.3										2	
		Women by age	F	20.00- 29.99	2478	1.1										3	
		Women by age	F	30.00- 39.99	2134	0.7										4	
		Women by age	F	40.00- 49.99	1915	1.0										5	
		Women by area: Urban	F	40.00- 49.99	1406	0.9										6	
		Women by area: Rural	F	15.00- 49.99	6812	1.0										7	
		Women by province: Banteay Mean Chey	F	15.00- 49.99	325	1.8										8	
		Women by province: Kampong Cham	F	15.00- 49.99	1070	0.7										9	
		Women by province: Kampong Chhnang	F	15.00- 49.99	276	0.6										10	
		Women by province: Kampony Speu	F	15.00- 49.99	429	2.0										11	
		Women by province: Kampong Thom	F	15.00- 49.99	412	1.0										12	
		Women by province: Kandal	F	15.00- 49.99	763	0.8										13	
		Women by province: Kratie	F	15.00- 49.99	167	0.8										14	
		Women by province: Phnom Penh	F	15.00- 49.99	885	0.6										15	
		Women by province: Prey Veng	F	15.00- 49.99	708	1.0										16	
		Women by province: Pursat	F	15.00- 49.99	224	1.6										17	
		Women by province: Siem Reap	F	15.00- 49.99	563	2.4										18	
		Women by province: Svay Rieng	F	15.00- 49.99	335	0.3										19	
		Women by province: Takeo	F	15.00- 49.99	534	0.7										20	
		Women by province: Otdar Mean Chey	F	15.00- 49.99	82	2.0										21	
		Women by province: Battambang/Krong Paillin	F	15.00- 49.99	637	0.5										22	
		Women by province: Kampot/Krong/Kep	F	15.00- 49.99	384	1.2										23	
		Women by province: Krong Preah Sihanouk/ Kaoh K	F	15.00- 49.99	182	0.3										24	
		Women by province: Preah Vihear/ Steung Treng	F	15.00- 49.99	134	2.0										25	
		Women by province: Mondol Kiri/Rattanak Kiri	F	15.00- 49.99	110	0.4										26	
		Pre-SAC by sex	F	0.50- 4.99	1597	0.6		59.5									
		Pre-SAC by sex	M	0.50- 4.99	1561	0.8		64.2									
		Pre-SAC by age	B	0.50- 0.74	163	0.3		80.5									
		Pre-SAC by age	B	0.75- 0.99	170	0.9		87.1									
		Pre-SAC by age	B	1.00- 1.49	370	1.8		85.8									
		Pre-SAC by age	B	1.50- 1.99	376	1.2		70.7									

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						70	100	110	115	120	130						
N	2005 -2006	Pre-SAC by age	B	2.00- 2.99	679	0.2		58.6					B	5646			
		Pre-SAC by age	B	3.00- 3.99	721	0.8		51.1									
		Pre-SAC by age	B	4.00- 4.99	679	0.4		47.7									
		Pre-SAC by area: Urban	B	0.50- 4.99	400	0.6		59.7									
		Pre-SAC by area: Rural	B	0.50- 4.99	2758	0.7		62.2									
		Pre-SAC by province: Banteay Mean Chey	B	15.00- 49.99	131	0.6		70.6									
		Pre-SAC by province: Kampong Cham	B	15.00- 49.99	383	0.0		56.5									
		Pre-SAC by province: Kampong Chhnang	B	15.00- 49.99	128	1.8		60.2									
		Pre-SAC by province: Kampony Speu	B	15.00- 49.99	189	0.0		63.4									
		Pre-SAC by province: Kampong Thom	B	15.00- 49.99	175	1.4		75.1									
		Pre-SAC by province: Kandal	B	15.00- 49.99	289	0.0		54.9									
		Pre-SAC by province: Kratie	B	15.00- 49.99	91	0.5		58.9									
		Pre-SAC by province: Phnom Penh	B	15.00- 49.99	220	0.0		52.2									
		Pre-SAC by province: Prey Veng	B	15.00- 49.99	232	0.8		57.6									
		Pre-SAC by province: Pursat	B	15.00- 49.99	76	3.0		84.6									
		Pre-SAC by province: Siem Reap	B	15.00- 49.99	283	1.1		78.1									
		Pre-SAC by province: Svay Rieng	B	15.00- 49.99	105	0.9		68.5									
		Pre-SAC by province: Takeo	B	15.00- 49.99	222	1.0		55.9									
		Pre-SAC by province: Otdar Mean Chey	B	15.00- 49.99	38	2.3		73.2									
		Pre-SAC by province: Battambang/Krong Pailin	B	15.00- 49.99	227	0.6		54.9									
		Pre-SAC by province: Kampot/Krong/Kep	B	15.00- 49.99	153	1.4		48.5									
Pre-SAC by province: Krong Preah Sihanouk/ Kaoh	B	15.00- 49.99	70	2.1		73.7											
Pre-SAC by province: Preah Vihear/ Steung Treng	B	15.00- 49.99	85	0.0		67.4											
Pre-SAC by province: Mondol Kiri/Rattanak Kiri	B	15.00- 49.99	61	0.1		63.4											
R	2003	124 Villages: NPW by village type: Program	F	NS	607	0.7				60.8			B	4210	*		
		124 Villages: NPW by village type: Control	F	NS	597	1.0				62.1							
		124 Villages: PW by village type: Program	F	NS	47	2.1		63.8									
		124 Villages: PW by village type: Control	F	NS	46	0.0		67.4									
		124 Villages: Pre-SAC by village type: Program	B	0.50- 4.99	697	1.7		72.9									
		124 Villages: Pre-SAC by village type: Control	B	0.50- 4.99	644	1.4		71.4									
N	2000	Women: Total	F	15.00- 49.99	3634	1.3							B	3206		27	
		Pre-SAC: Total	B	0.50- 4.99	1461	2.0		63.4							28		
		Women by physiological status: NPNLW	F	15.00- 49.99	2722	0.7				55.1							
		Women by physiological status: PW	F	15.00- 49.99	209	4.3		66.4									

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						70	100	110	115	120	130						
N	2000	Women by physiological status: LW	F	15.00- 49.99	680	2.6				66.1			B	3206			
		Women by age	F	15.00- 19.99	798	0.4										29	
		Women by age	F	20.00- 24.99	460	1.1										30	
		Women by age	F	25.00- 29.99	455	0.6										31	
		Women by age	F	30.00- 34.99	566	2.2										32	
		Women by age	F	35.00- 39.99	540	2.0										33	
		Women by age	F	40.00- 44.99	430	1.4										34	
		Women by age	F	45.00- 49.99	385	1.6										35	
		Women by area: Urban	F	15.00- 49.99	619	0.6										36	
		Women by area: Rural	F	15.00- 49.99	3015	1.4										37	
		Women by region: Banteay Mean Chey	F	15.00- 49.99	172	1.5										38	
		Women by region: Kampong Cham	F	15.00- 49.99	487	2.5										39	
		Women by region: Kampong Chhnang	F	15.00- 49.99	148	0.0										40	
		Women by region: Kampong Spueu	F	15.00- 49.99	184	3.0										41	
		Women by region: Kampong Thum	F	15.00- 49.99	177	1.4										42	
		Women by region: Kandal	F	15.00- 49.99	346	0.5										43	
		Women by region: Kaoh Kong	F	15.00- 49.99	39	1.0										44	
		Women by region: Phnom Penh	F	15.00- 49.99	337	0.4										45	
		Women by region: Prey Veaeang	F	15.00- 49.99	311	0.5										46	
		Women by region: Pousat	F	15.00- 49.99	104	1.3										47	
		Women by region: Svay Rieng	F	15.00- 49.99	164	0.5										48	
		Women by region: Takaev	F	15.00- 49.99	237	2.4										49	
		Women by region: Bat Dam/Krong Pai	F	15.00- 49.99	267	0.9										50	
		Women by region: Kampot/K.K/K.P.S	F	15.00- 49.99	224	1.0										51	
		Women by region: Preah V/ Stueng T/K	F	15.00- 49.99	140	1.2										52	
		Women by region: Mon. K/R. K/S.R/Otd	F	15.00- 49.99	40	2.9										53	
		Women by region: Mean Chey	F	15.00- 49.99	258	1.6										54	
		Women by region: Phnom Penh	F	15.00- 49.99	337	0.6										55	
		Pre-SAC by sex	F	0.50- 4.99	713	1.6			61.1								
		Pre-SAC by sex	M	0.50- 4.99	748	2.5			65.7								
		Pre-SAC by age	B	0.50- 0.82	110	1.8			84.6								
		Pre-SAC by age	B	0.83- 0.99	47	6.9			89.6								
		Pre-SAC by age	B	1.00- 1.32	121	5.0			81.6								
		Pre-SAC by age	B	1.33- 1.99	166	2.8			77.8								
		Pre-SAC by age	B	2.00- 2.99	302	1.8			59.6								
		Pre-SAC by age	B	3.00- 3.99	373	0.9			52.9								

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						70	100	110	115	120	130							
N	2000	Pre-SAC by age	B	4.00- 4.99	344	1.3		54.6						3206				
		Pre-SAC by area: Urban	B	0.50- 4.99	196	2.3		57.3										
		Pre-SAC by area: Rural	B	0.50- 4.99	1265	2.0		64.4										
NR	2000	Children	B	0.50- 4.99	1762			54.0					B	3958	*			
R	2000	137 Villages: NPW by region: CASD/WFP	F	NS	998					61.0				B	4209	*	56	
		137 Villages: NPW by region: Otdar Mean Chey	F	NS	129					51.0								
		137 Villages: PW by region: CASD/WFP	F	NS	116						77.0							
		137 Villages: PW by region: Otdar Mean Chey	F	NS	23						61.0							
		137 Villages: Pre-SAC by region: CASD/WFP	B	NS- 4.99	1588						74.0							
		137 Villages: Pre-SAC by region: Otdar Mean Chey	B	0.50- 4.99	229						66.0							
R	1998	125 Villages: Women: Total	F	NS	1091									B	4208	*	58	
		125 Villages: Pre-SAC: Total	B	0.50- 4.99	1348			82.0			97							
		125 Villages: Women by physiological status: NPW:	F	NS	994						69.0							
		125 Villages: Women by physiological status: PW: T	F	NS	97			74.0			99							
		125 Villages: NPW by region: CASD	F	NS	552						68.0							
		125 Villages: NPW by region: WFP	F	NS	441						71.0							
		125 Villages: Pre-SAC by region: CASD	B	0.50- 4.99	733						81.0							
		125 Villages: Pre-SAC by region: WFP	B	0.50- 4.99	615						83.0							
											96							

NOTES

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Reference No: 5646

General Notes: *Sampling: Stratification of each domain on area (urban/ rural); two stage cluster sampling within each strata; Haemoglobin assessed in sub-sample (every second household).*

- Line note 1** Prevalence of anaemia 46.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 2** Prevalence of anaemia 46.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 3** Prevalence of anaemia 44.5% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 4** Prevalence of anaemia 44.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 5** Prevalence of anaemia 51.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 6** Prevalence of anaemia 37.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 7** Prevalence of anaemia 48.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 8** Prevalence of anaemia 57.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 9** Prevalence of anaemia 41.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 10** Prevalence of anaemia 55.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 11** Prevalence of anaemia 58.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 12** Prevalence of anaemia 57.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 13** Prevalence of anaemia 45.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 14** Prevalence of anaemia 38.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 15** Prevalence of anaemia 29.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 16** Prevalence of anaemia 40.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 17** Prevalence of anaemia 52.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 18** Prevalence of anaemia 55.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 19** Prevalence of anaemia 49.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 20** Prevalence of anaemia 46.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 21** Prevalence of anaemia 57.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 22** Prevalence of anaemia 52.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 23** Prevalence of anaemia 42.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 24** Prevalence of anaemia 46.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 25** Prevalence of anaemia 62.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 26** Prevalence of anaemia 43.4% (Hb <110 g/L PW, Hb <120 g/L NPW).

Reference No: 4210

General Notes: *Follow-up survey of the two surveys conducted previously in 1998 and 2000 (see reference No. 4208 and 4209); survey conducted in 124 villages (63 program+61 control) in six provinces (Kampong Spueu, Kampong Thom, Otdar Mean Chey, Prey Veng, Stung Treng, Svay Rieng); the CASD (Community Action for Social Development) program changed its name to Seth Koma; sampling: two-stage random sampling (1. villages: 2. households with children under 5 yrs of age), 1303 households were interviewed; women are mothers of the children; sample women not representative.*

Reference No: 3206

- Line note 27** Prevalence of anaemia 57.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
- Line note 28** Disaggregated data by region.

Line note 29	Prevalence of anaemia 57.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 30	Prevalence of anaemia 57.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 31	Prevalence of anaemia 54.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 32	Prevalence of anaemia 57.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 33	Prevalence of anaemia 58.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 34	Prevalence of anaemia 57.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 35	Prevalence of anaemia 62.7% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 36	Prevalence of anaemia 51.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 37	Prevalence of anaemia 59.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 38	Prevalence of anaemia 65.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 39	Prevalence of anaemia 58.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 40	Prevalence of anaemia 51.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 41	Prevalence of anaemia 59.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 42	Prevalence of anaemia 66.8% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 43	Prevalence of anaemia 54.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 44	Prevalence of anaemia 44.4% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 45	Prevalence of anaemia 52.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 46	Prevalence of anaemia 54.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 47	Prevalence of anaemia 63.3% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 48	Prevalence of anaemia 60.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 49	Prevalence of anaemia 64.6% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 50	Prevalence of anaemia 47.5% (Hb <110 g/L PW, Hb <120 g/L NPW); region: Bat Dambang/ Krong Pailin.
Line note 51	Prevalence of anaemia 51.4% (Hb <110 g/L PW, Hb <120 g/L NPW); region: Kampot/ Krong Kaeb/ Krong Preah Sihanouk Preah.
Line note 52	Prevalence of anaemia 60.1% (Hb <110 g/L PW, Hb <120 g/L NPW); region: Preah Vihear/Stueng Traeng/ Kracheh.
Line note 53	Prevalence of anaemia 63.0% (Hb <110 g/L PW, Hb <120 g/L NPW); region: Mondol Kiri/ Rotanak Kiri/ Siem Reab/ Otdar.
Line note 54	Prevalence of anaemia 69.2% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 55	Prevalence of anaemia 59.1% (Hb <110 g/L PW, Hb <120 g/L NPW).

Reference No: 3958

General Notes: *Dates of survey, sampling design and Hb method adapted from reference No. 3261; sampling: random multistage cluster sampling design, 15 000 households in 10 rural provinces were interviewed; Hb determination only for subsample.*

Reference No: 4209

General Notes: *Follow-up survey of the baseline survey which was conducted in 1998 (see reference No. 4208) to measure progress of the programs (regarding anaemia there were only educational interventions, thus no supplementation or deworming); survey conducted in 137 villages: 59 WFP target villages, 13 CASD-PFD (NGO Partners for Development) villages in Kratie and Stung Treang Provinces, 52 villages in the six Community Action for Social Development (CASD)-UNICEF Provinces (Kampong Spueu, Kampong Thom, Prey Veng, Battambang Svay Rieng and Takeo Provinces) and in 13 villages in 2 districts (Trapeang Prasat, Anlong Veng) of Otdar Mean Chey; sampling: multistage random sampling procedure (1. villages; 2. households with children under 5 yrs of age), 1451 households were surveyed; women are mothers of the children; sample women not representative.*

Line note 56 Disaggregated data by province.

Line note 57 Disaggregated data by province.

Reference No: 4208

General Notes: *Survey conducted in 125 villages: 50 villages in six Community Action for Social Development (CASD)-UNICEF Provinces (Battambang, Kampong Spueu, Kampong Thom, Prey Veang, Svay Rieng, Takeo), 13 CASD-PFD (NGO Partners for Development) villages in Kratie and Stung Treang Provinces and 62 WFP target villages; sampling: multistage random sampling procedure (1. villages; 2. households with children under 5 yrs of age), 1230 households were surveyed including 1765 children; women are mothers of the children; sample women not representative; Hb determination only for 1348 children.*

Line note 58 Prevalence of anaemia 69.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 59 Disaggregated data by region (CASD/WFP).

Line note 60 Program villages; disaggregated data by province.

Line note 61 Control villages.

Line note 62 Program villages; disaggregated data by province.

Line note 63 Control villages.

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ADDITIONAL REFERENCES

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