

**ZIMBABWE**
**Last Updated: 2007-05-22**

Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Goitre prevalence (%)			Urinary iodine (µg/L)							Reference	Notes				
						Grade 1	Grade 2	TGP	Distribution (%)					Prevalence (%)			Median	Mean	SD	General	Line
									<20	20-49	50-99	100-299	>300	<100							
N	1999	National: SAC: Total	B	6.00 - 14.99	847				0.9	4.3	9.6	52.4	32.8	14.8	245	255		2641	*		
D	1997	Hurungwe district: SAC	B	NS	92										455	461	194.3	2357a	*		
		Bikita district: SAC	B	NS	151										290	319	164.8				
		Nyanga district: SAC	B	NS	147										370	381	216.1				
		Chimanimani district: SAC	B	NS	150										330	333	165.2				
D	1995	Matobo district: SAC	B	NS	267										370	448		2357b	*	1	
		Murehwa district: SAC	B	NS	177										430	488				2	
		Hurungwe district: SAC	B	NS	76										456	490				3	
		Cheguta district: SAC	B	NS	146										560	625				4	
		Bikita district: SAC	B	NS	174										500	548				5	
		Binga district: SAC	B	NS	126										290	336				6	
D	1994 -1995	UMP, Bindura and Marondera districts: Adults/Eld	B	35.00 - NS	516										560			1341	*	7	
		Adults	B	35.00 - 59.99	215										680						
		Elderly	B	60.00 - NS	301										480						
		Adults/Elderly by area: Urban	B	35.00 - NS	NS										440					8	
		Adults/Elderly by area: Rural	B	35.00 - NS	NS										600					9	
D	1994	Mberengwau district: SAC	B	NS	51										330	368		2357c	*		
D	1993	Murehwa district: SAC	B	NS	99										490	556		2357d	*		
		Murehwa (Chingwaru) district: SAC	B	NS	101										395	454					
		Murehwa (Chitowa) district: SAC	B	NS	81										70	144					
		Nyanga district: SAC	B	NS	155										310	404					
		Centenary district: SAC	B	NS	174										228	281					
		Chimanimani district: SAC	B	NS	148										283	385					
D	1992	Murehwa (Chitowa) district: SAC	B	NS	96										56	69.2		2357e	*		
		Murehwa (Shamu) district: SAC	B	NS	92										55.5	143					
		Harare city: SAC	B	NS	136										50.5	86.3					
		Matobo district: SAC	B	NS	147										37	82.5					
		Gokwe district: SAC	B	NS	47										59	80.5					
		Bikita district: SAC	B	NS	148										31	64.9					
		Binga district: SAC	B	NS	145										51	95.3					
D	1991	Centenary district: SAC	B	NS	51										24	64.4		2357f	*		

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									<20	20-49	50-99	100-299	>300	<100	Median				Mean
D	1991	Murehwa (Chipinda) district: SAC Hwedza district: SAC	B B	NS NS	41 301									22 14	29 24		2357f		
D	1990	Murehwa district: SAC Chimanimani district: SAC	B B	NS NS	57 29									24 19.5	24 28.5		2357g	*	
N	1989	National: SAC: Total	B	NS	159433	38.9	3.7	42.7									2642	*	10
		SAC by province: Manicaland	B	NS	22373	44.2	3.8	48.4											11
		SAC by province: Mashona Central	B	NS	17133	47.0	5.0	52.0											12
		SAC by province: Mashonaland East	B	NS	21022	35.6	6.9	42.5											13
		SAC by province: Mashonaland West	B	NS	20727	38.3	1.1	39.4											14
		SAC by province: Masvingo	B	NS	24549	45.9	5.6	51.5											15
		SAC by province: Matabeleland South	B	NS	14834	15.8	0.7	16.5											16
		SAC by province: Matabeleland North	B	NS	16263	38.6	1.7	40.3											17
		SAC by province: Midlands	B	NS	22532	39.9	4.3	44.2											18
		SAC by city: Bulawayo	B	NS	4663	18.9	0.4	19.3											
		SAC by city: Harare	B	NS	9824	10.6	0.2	10.8											
		SAC by district: Beit Bridge	B	NS	2270	12.7	0.5	13.2											
		SAC by district: Bikita	B	NS	3327	55.8	6.9	62.7											
		SAC by district: Bindura	B	NS	2276	50.5	6.1	56.6											
		SAC by district: Binga	B	NS	1956	50.1	4.3	54.4											
		SAC by district: Buhera	B	NS	2650	26.1	0.3	26.4											
		SAC by district: Bulalimangwe	B	NS	4226	17.0	0.8	17.8											
		SAC by district: Centenary	B	NS	2089	46.6	6.8	53.4											
		SAC by district: Charter	B	NS	2946	64.2	10.3	74.5											
		SAC by district: Cheguto	B	NS	4598	51.8	2.0	53.8											
		SAC by district: Chimanimani	B	NS	5049	41.4	12.1	53.5											
		SAC by district: Chipinge	B	NS	1967	18.9	0.3	19.2											
		SAC by district: Chivi	B	NS	4102	36.9	2.3	39.2											
		SAC by district: Gokwe	B	NS	7813	32.5	2.9	35.4											
		SAC by district: Guruve	B	NS	2180	38.8	2.4	41.2											
		SAC by district: Gutu	B	NS	5414	46.5	5.0	51.5											
		SAC by district: Gwanda	B	NS	3088	14.7	0.2	14.9											
		SAC by district: Gweru	B	NS	1034	53.2	2.7	55.9											
		SAC by district: Hlangabeza	B	NS	1192	31.2	0.9	32.1											
		SAC by district: Hwange	B	NS	2983	27.2	1.4	28.6											
		SAC by district: Insiza	B	NS	2528	18.2	1.3	19.5											
		SAC by district: Kadoma	B	NS	3947	31.1	1.1	32.2											

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									<20	20-49	50-99	100-299	>300	<100						
N	1989	SAC by district: Kariba	B	NS	2021	36.8	1.2	38.0										2642		
		SAC by district: Karoyi	B	NS	5348	47.4	1.5	48.9												
		SAC by district: Kubatana	B	NS	346	38.9	4.6	43.5												
		SAC by district: Kwekwe	B	NS	2561	38.5	5.0	43.5												
		SAC by district: Lupane	B	NS	3183	39.6	0.7	40.3												
		SAC by district: Makonde	B	NS	4813	27.4	0.2	27.6												
		SAC by district: Makoni	B	NS	4616	64.3	5.9	70.2												
		SAC by district: Marondera	B	NS	608	59.3	15.1	74.4												
		SAC by district: Masvingo	B	NS	4185	44.9	5.3	50.2												
		SAC by district: Matobo	B	NS	1394	11.4	0.2	11.6												
		SAC by district: Mazowe	B	NS	2616	48.7	7.7	56.4												
		SAC by district: Mberengwa	B	NS	3801	39.7	3.0	42.7												
		SAC by district: Mrewa	B	NS	2910	55.4	23.3	78.7												
		SAC by district: Mt. Darwin	B	NS	3722	49.8	4.6	54.4												
		SAC by district: Mudzi	B	NS	1500	31.8	0.0	31.8												
		SAC by district: Mutare	B	NS	5777	46.5	1.3	47.8												
		SAC by district: Mutoko	B	NS	2123	48.7	8.3	57.0												
		SAC by district: Mvuma	B	NS	1429	50.2	7.0	57.2												
		SAC by district: Mwenezi	B	NS	2545	36.1	1.9	38.0												
		SAC by district: Ndanga	B	NS	4976	51.0	8.9	59.9												
		SAC by district: Nkayi	B	NS	3569	38.7	1.8	40.5												
		SAC by district: Nyanga	B	NS	2314	49.2	3.2	52.4												
		SAC by district: Rushinga	B	NS	2161	43.9	2.9	46.8												
		SAC by district: Seke	B	NS	944	45.1	4.8	49.9												
		SAC by district: Shamva	B	NS	1743	48.7	3.2	51.9												
		SAC by district: Shurugwi	B	NS	1122	41.1	6.9	48.0												
		SAC by district: Tsholotsho	B	NS	3380	40.7	1.2	41.9												
		SAC by district: U.M.P.	B	NS	1514	37.3	6.8	44.1												
		SAC by district: Umzingwane	B	NS	1328	23.3	1.3	24.6												
		SAC by district: Wedza	B	NS	1599	34.5	1.8	36.3												
		SAC by district: Zvishavane	B	NS	1826	23.5	0.9	24.4												

## NOTES

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**Reference no** 2641

**General Notes:** *Impact evaluation of IDD Control Programme; stratified multi-stage cluster sampling; 50 clusters selected in each of the country's 5 agro-ecological zones; 1 village selected in each ward, systematic selection of households.*

**Reference no** 2357a

**General Notes:** *Data from primary school children from Sentinel Site Monitoring; SAC randomly selected from 3 selected schools in the each sentinel district.*

**Reference no** 2357b

**General Notes:** *Data from primary school children from Sentinel Site Monitoring; SAC randomly selected from 3 selected schools in the each sentinel district.*

**Line note 1** UI <50 µg/l: 2.6%

**Line note 2** UI <50 µg/l: 0.0%

**Line note 3** UI <50 µg/l: 0.0%

**Line note 4** UI <50 µg/l: 0.0%

**Line note 5** UI <50 µg/l: 1.7%

**Line note 6** UI <50 µg/l: 0.8%

**Reference no** 1341

**General Notes:** *Multi-stage cluster sampling; subjects recruited from 2 urban districts (Bindura and Marondera) and 1 rural district (Uzumba Maramba Pfungwe); pregnant women excluded.*

**Line note 7** UMP = Uzumba Maramba Pfungwe district.

**Line note 8** Bindura and Marondera districts.

**Line note 9** Uzumba Maramba Pfungwe district.

**Reference no** 2357c

**General Notes:** *Data from primary school children from Sentinel Site Monitoring; SAC randomly selected from 3 selected schools in the each sentinel district.*

**Reference no** 2357d

**General Notes:** *Data from primary school children from Sentinel Site Monitoring; SAC randomly selected from 3 selected schools in the each sentinel district.*

**Reference no** 2357e

**General Notes:** *Data from primary school children from Sentinel Site Monitoring; SAC randomly selected from 3 selected schools in the each sentinel district.*

**Reference no** 2357f

**General Notes:** *Data from primary school children from Sentinel Site Monitoring; SAC randomly selected from 3 selected schools in the each sentinel district.*

**Reference no** 2357g

**General Notes:** *Data from primary school children from Sentinel Site Monitoring; SAC randomly selected from 3 selected schools in the each sentinel district.*

**Reference no** 2642

**General Notes:** *Sample comprised SAC from 53 out of 55 districts; no description of sampling; same survey reported in references No. 68 and 2357; reference No. 2357 provides weighted prevalence and data for Harare city (TGP of 10.8%).*

**Line note 10** Weighted TGP 38.3%

**Line note 11** Weighted TGP 42.7%

**Line note 12** Weighted TGP 51.9%

<b>Line note 13</b>	Weighted TGP 59.5%
<b>Line note 14</b>	Weighted TGP 41.4%
<b>Line note 15</b>	Weighted TGP 51.2%
<b>Line note 16</b>	Weighted TGP 16.6%
<b>Line note 17</b>	Weighted TGP 38.8%
<b>Line note 18</b>	Weighted TGP 42.5%

## REFERENCES

### ZIMBABWE

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- Reference 1341** Gomo ZA, Allain TJ, Matenga JA, Ndemere B, Wilson A, Urdal P. Urinary iodine concentrations and thyroid function in adult Zimbabweans during a period of transition in iodine status. *American Journal of Clinical Nutrition*, 1999, 70 :888-891.
- Reference 2357** Todd CH. A report on the impact of universal salt iodisation on the iodine status of the population of Zimbabwe [draft]. 1996.
- Reference 2641** Ministry of Health and Child Welfare, Nutrition Unit. Zimbabwe National Micronutrient Survey: 1999. Harare, Ministry of Health and Child Welfare, 2001.
- Reference 2642** Nutrition Unit. Report of the National Intersectoral Consultative Meeting for the Control of IDD in Zimbabwe held at Manica Hotel, Mutare, 24-16th September 1989. Zimbabwe, 1989.

## ADDITIONAL REFERENCES

### ZIMBABWE

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- Reference 320** Chinyanga EA, Dako DY. Profile of thyroid function and urinary iodine excretion of pregnant women attending Harare Central Hospital antenatal clinic. *Central African Journal of Medicine*, 1989, 35 :396-400.
- Reference 321** Todd CH, Laing R, Marangwanda CS, Mushonga N. Iodine deficiency disorders in Zimbabwe: no change in prevalence of endemic goitre in Wedza District, as shown by school surveys carried out 18 years apart. *Central African Journal of Medicine*, 1989, 35 :304-306.
- Reference 322** Todd CH, Sanders D, Chimanyiwa T. Hearing in primary school children in an iodine-deficient population in Chinamhora, Zimbabwe. *Tropical and Geographical Medicine*, 1988, 40 :223-225.
- Reference 327** [Anonymous]. Endemic goitre in Chinamora, Zimbabwe: the Chinamora Research Team. *Lancet*, 1986, 1 :1198-1200.
- Reference 350** Mutamba JK. Iodine Deficiency Disorders in the Region Eastern, Central and Southern Africa (IDD in Zimbabwe). Gaborone, 1986.
- Reference 368** Marangwanda CS. Survey methodology and extent of iodine deficiency in Zimbabwe. Report of the national intersectoral consultative meeting for the control of IDD in Zimbabwe, 24-26 September 1989. Ministry of Health, Nutrition Unit, 1989.
- Reference 1209** Sanders DM, Mutamba JR. Iodine deficiency disorders in Zimbabwe: a summary presented at PEG Meeting, Brussels, February 1987. 1987.
- Reference 1228** Whittle H, Walker E. Goitre survey, Omay Tribal Trust Lands, Kariba District, Rhodesia. *Central African Journal of Medicine*, 1968, 14 :43-47.
- Reference 1305** Todd CH, Allain T, Gomo ZAR, Hasler JA, Ndiweni M, Oken E. Increase in thyrotoxicosis associated with iodine supplements in Zimbabwe. *Lancet*, 1995, 346 :1563-1564.
- Reference 1342** Chinyanga E, Chidede O, Mujaji WB. Thyroid function in neonates from goitre prevalent areas in Zimbabwe. *Central African Journal of Medicine*, 1998, 44 :127-130.
- Reference 1343** Todd CH, Dunn JT. Intermittent oral administration of potassium iodide solution for the correction of iodine deficiency. *American Journal of Clinical Nutrition*, 1998, 67 :1279-1283.
- Reference 1344** Todd CH, Bourdeux PP. Severe iodine deficiency in two endemic goitre areas of Zimbabwe. *Central African Journal of Medicine*, 1991, 37 :237-241.
- Reference 1345** Todd CH, Sanders D. A high prevalence of hypothyroidism in association with endemic goitre in Zimbabwean schoolchildren. *Journal of Tropical Pediatrics*, 1991, 37 :199-201.
- Reference 1347** Faransi CT, Shija JK. The pattern of goitres seen at Harare Central Hospital - a three-year review. *Central African Journal of Medicine*, 1985, 31 :148-151.
- Reference 1635** Mutamba JR. Endemic goitre in Zimbabwe: a study of goitre prevalence and urinary iodine excretion as indicators of iodine deficiency in school children in Murewa District. 1993.
- Reference 2360** Todd CH. Report of a Consultation on the 1998 National IDD Survey and a Monitoring System for the IDD Control Programme prepared for Directorate: Nutrition, Dept of Health, Republic of South Africa. 1999.

## ADDITIONAL REFERENCES

### ZIMBABWE

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- Reference 3331** Measure DHS, ORC Macro. Micronutrient Update. Calverton, MD, Measure DHS, ORC Macro, 2002.
- Reference 4919** Tagwireyi J, Greiner T. Nutrition in Zimbabwe: an update. Washington D.C, The World Bank, 1994.