

WHO Global Database on Iodine Deficiency

The database on iodine deficiency includes data by country on goitre prevalence and/or urinary iodine concentration

							Goitre					Urin	ary iodi	ne (µg/L)					Note	
						pre	valence	(%)		Dist	tributio	n (%)		Prevalence (%)				1	NOLE	:5
Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Grade 1	Grade 2	TGP	<20	20-49	50-99	100-299	>300	<100	Median	Mean	SD	Reference	General	Line
L	2002	SAC/Adults by location: Dembi-Dollo: Aaddo scho	В	10.00 - 34.99	225	43.1	4.9	52.0										3546a	*	
		SAC/Adults by location: Dembi-Dollo: Alakuu scho	В	10.00 - 34.99	152	61.2	4.6	65.8												
		SAC/Adults by location: Dembi-Dollo: Dullii school	В	10.00 - 34.99	124	56.5	9.7	66.2												
		SAC/Adults by location: Dembi-Dollo: Karroo scho	В	10.00 - 34.99	72	58.3	9.7	68.0												
		SAC/Adults by location: Dembi-Dollo: Sakoo scho	В	5.00 - 34.99	83	72.3	6.0	78.6												
		SAC/Adults by location: Dembi-Dollo: Shogoo sch	В	5.00 - 34.99	119	66.4	3.4	69.8												
		SAC/Adults by location: Nekemte: Gute Aba Kuna	В	5.00 - 34.99	91	64.8	4.4	69.2												
		SAC/Adults by location: Nekemte: Konchil school	В	10.00 - 34.99	142	52.8	0.7	53.5												
D	2000P	SAC by village: Abossara	В	NS	65											79.7		3199		1
_		SAC by village: Billalo	В	NS	43											50.6				2
		SAC by village: Kodowono	В	NS	53											44.3				3
		SAC by village: Lotte	В	NS	53											46.8				4
		SAC by village: Wodeweisho	В	NS	51											58.2				5
		SAC by village: Kasha	В	NS	42											55.7				6
		SAC by village: Tebmanjayaz	В	NS	60											64.6				7
		SAC by village: Regdina	В	NS	50											83.5		1		8
		SAC by village: Sankura	В	NS	54											88.6		1		9
		SAC by village: Wonchi	В	NS	41											41.8		1		10
		10 villages: SAC: Total	В	NS	2485			53.3										1	*	
		SAC by sex	F	NS	745			56.1												
		SAC by sex	M	NS	1740			50.8												
		SAC by village: Abossaral	В	NS	288			31.0										1		11
		SAC by sex and village: Abossara	F	NS	169			32.0										1		12
		SAC by sex and village: Abossara	M	NS	119			29.0												13
		SAC by village: Billalo	В	NS	139			34.0												14
		SAC by sex and village: Billalo	F	NS	76			24.5												15
		SAC by sex and village: Billalo	M	NS	63			38.0												16
		SAC by vilage: Kodowono	В	NS	202			91.0												17
		SAC by sex and village: Kodowono	F	NS	99			97.0										I		18
		SAC by sex and village: Kodowono	M	NS	103			80.0										I		19
		SAC by village: Lotte	В	NS NS	328			82.0										I		20
		SAC by sex and village: Lotte	F	NS	126			87.0										I		21
		SAC by sex and village: Lotte	M	NS	202			79.0										I		22
		SAC by village: Wodewoshe	В	NS NS	130			51.5										I		23
		SAC by sex and village: Wodewoshe	F	NS	38			55.0										I		24
		SAC by sex and village: Wodewoshe	M	NS	92			50.0										I		25
		SAC by village: Kasha	В	NS NS	140			65.0										I		26



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							Goitre					Urin	ary iodi	ne (µg/L)					Note	
						pre	valence ((%)		Dist	tributio	n (%)		Prevalence (%)				1	Note	iS .
Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Grade 1	Grade 2	TGP	<20	20-49	50-99	100-299	>300	<100	Median	Mean	SD	Reference	General	Line
D	2000P	SAC by sex and village: Kasha	F	NS	39			61.5										3199		27
		SAC by sex and village: Kasha	М	NS	101			66.0												28
		SAC by village: Tebmenjayaz	В	NS	328			48.8												29
		SAC by sex and village: Tebmenjayaz	F	NS	52			59.6												30
		SAC by sex and village: Tebmenjayazx	М	NS	276			36.0												31
		SAC by village: Regdina	В	NS	350			28.9												32
		SAC by sex and village: Regdina	F	NS	49			34.0												33
		SAC by sex and village: Regdina	М	NS	301			28.0												34
		SAC by village: Sankura	В	NS	429			24.0												35
		SAC by sex and village: Sankura	F	NS	61			33.0												36
		SAC by sex and village: Sankura	м	NS	368			20.0												37
		SAC by village: Wonchi	В	NS	151			76.8												38
		SAC by sex and village: Wonchi	F	NS	36			77.8												39
		SAC by sex and village: Wonchi	М	NS	115			76.5						ļ						40
L	2000	Dembi-Dollo area: SAC by sex and age	F	13.00 - 15.99	75	58.6	8.0	66.6						1				3546b	*	
		Dembi-Dollo area: SAC by sex and age	М	13.00 - 15.99	121	44.6	0.8	45.4												
		Dembi-Dollo area: Adolescents by sex and age	F	16.00 - 20.99	8	62.5	12.5	75.0												
		Dembi-Dollo area: Adolescents by sex and age	М	16.00 - 20.99	24	37.5	4.2	41.7						ļ l						
D	1995	Wag Himra zone: Pre-SAC: Total	В	0.00 - 5.99	1384	5.2	0.2	5.4										1385	*	
1		Wag Himra zone: SAC: Total	В	6.00 - 12.99	842	19.2	5.0	24.2												
		Wag Himra zone: Adolescents: Total	В	13.00 - 18.99	546	23.8	8.2	32.0												
		Wag Himra zone: Adults: Total	В	19.00 - NS	1430	24.3	10.6	34.9												
		Wag Himra zone: Pre-SAC by sex	F	0.00 - 5.99	694	5.6	0.1	5.7												
		Wag Himra zone: Pre-SAC by sex	м	0.00 - 5.99	690	4.8	0.3	5.1												
		Wag Himra zone: SAC by sex	F	6.00 - 12.99	446	24.4	6.7	31.1												
		Wag Himra zone: SAC by sex	м	6.00 - 12.99	396	5.6	9.8	15.4												
		Wag Himra zone: Adolescents by sex	м	13.00 - 18.99	271	16.2		21.7												
		Wag Himra zone: Adolescents by sex	F	13.00 - 18.99	275			42.2												
		Wag Himra zone: Women	F	19.00 - NS	689	41.2	17.1	58.3										I		
		Wag Himra zone: Men	м	19.00 - NS	741	9.0		13.6										I		
		Pre-SAC by location: Highlands	В	0.00 - 5.99	468	10.3		10.7										I		
		Pre-SAC by location: Lowland	В	0.00 - 5.99	453	0.0	0.0	0.0										I		
		Pre-SAC by location: Semi Higlands	В	0.00 - 5.99	463	5.2	0.0	5.4										I		
		Pre-SAC by sex and location: Highlands	F	0.00 - 5.99	251	10.4	0.4	10.8										I	^	
		Pre-SAC by sex and location: Highlands	M	0.00 - 5.99	217	10.4	0.5	10.6										I		
		Pre-SAC by sex and location: Ingliands	F F	1														I		
1 1	l	Pre-SAC by sex and location: Lowland		0.00 - 5.99	217	0.0	0.0	0.0	I		l	I	I			I	I	ı	I	



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							Goitre					Urin	ary iodi	ine (µg/L)					Note	_
						pre	valence ((%)		Dis	tributio	on (%)		Prevalence (%)				1	Note	es
Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Grade 1	Grade 2	TGP	<20	20-49	50-99	100-299	>300	<100	Median	Mean	SD	Reference	General	Line
D	1995	Pre-SAC by sex and location: Lowland	М	0.00 - 5.99	236	0.0	0.0	0.0										1385		
		Pre-SAC by sex and location: Semi Higlands	F	0.00 - 5.99	226	5.8	0.0	5.8												
		Pre-SAC by sex and location: Semi Higlands	М	0.00 - 5.99	237	4.6	0.4	5.1												
		SAC by location: Highlands	В	6.00 - 12.99	239	40.2	16.3	56.5												
		SAC by location: Lowland	В	6.00 - 12.99	332	0.9	0.0	0.9												
		SAC by location: Semi Higlands	В	6.00 - 12.99	271	22.9	1.8	24.7												
		SAC by sex and location: Highlands	F	6.00 - 12.99	125	52.0	21.6	73.6												
		SAC by sex and location: Highlands	М	6.00 - 12.99	114	27.2	10.5	37.7												
		SAC by sex and location: Lowland	F	6.00 - 12.99	178	1.7	0.0	1.7												
		SAC by sex and location: Lowland	м	6.00 - 12.99	154	0.6	0.0	0.6												
		SAC by sex and location: Semi Higlands	F	6.00 - 12.99	143	28.7	2.1	30.8												
		SAC by sex and location: Semi Higlands	м	6.00 - 12.99	128	16.4	1.6	18.0												
		Adolescents by location: Highlands	В	13.00 - 18.99	176	44.3	21.0	65.3												
		Adolescents by location: Lowland	В	13.00 - 18.99	223	4.0	0.4	4.4												
		Adolescents by location: Semi Higlands	В	13.00 - 18.99	147	29.3	4.8	34.0												
		Adolescents by sex and location: Highlands	F	13.00 - 18.99	87	57.5	28.7	86.2												
		Adolescents by sex and location: Highlands	м	13.00 - 18.99	89	31.5	13.5	44.9												
		Adolescents by sex and location: Lowland	F	13.00 - 18.99	117	6.0	0.8	6.8												
		Adolescents by sex and location: Lowland	м	13.00 - 18.99	106	1.9	0.0	1.9												
		Adolescents by sex and location: Semi Higlands	F	13.00 - 18.99	71	40.8	5.6	46.5												
		Adolescents by sex and location: Semi Higlands	м	13.00 - 18.99	76		4.0	22.4												
		Adults by location: Highlands	В	19.00 - NS	569	32.7	19.3	55.0												
		Adults by location: Lowland	В	19.00 - NS	364	8.0	1.1	9.1												
		Adults by location: Semi Higlands	В	19.00 - NS	497	26.0	8.0	34.0												
		Women by location: Highlands	F	19.00 - NS	267	59.6	32.2	91.8												
		Women by location: Lowland	F	19.00 - NS	169	7.7	1.8	9.5												
		Women by location: Semi Higlands	F	19.00 - NS	253	44.3	11.5	55.7												
		Men by location: Highlands	м	19.00 - NS	302	14.6	7.9	22.5												
		Men by location: Lowland	I м	19.00 - NS	195	1.5	0.0	1.5												
		Men by location: Semi Higlands	М	19.00 - NS	244	7.0	4.1	11.1						ļ						
L	1994 -1995	SAC by village: Kodowono	В	NS	53											50	24	1384	*	
		SAC by village: Lotte	В	NS	53											53	38	I		
		SAC by village: Woidewashe	В	NS	51											65	40			
s	1988 -1991	Province: Arsi/Huruta	В	NS	97													3152	*	
		Province: Bale/Adaba	В	NS	55													I		4
		Province: Gamogofa/Sawla	В	NS	72													I		4



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						pre	valence (%)		Dist	ributio	n (%)		Prevalence (%)					Note	,5
Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Grade 1	Grade 2	TGP	<20	20-49	50-99	100-299	>300	<100	Median	Mean	SD	Reference	General	Line
S	1988 -1991	Province: Gojam/Bure	В	NS	59													3152		44
		Province: Harerghic/Alemmaya	В	NS	56															45
		Province: Shoa/Gohatsion	В	NS	90															46
		Province: Shoa/Majetie	В	NS	67															47
		Province: Shoa/Mojo	В	NS	50															48
		Province: Sidamo/Yabello	В	NS	57															49
		Province: Arsi/Huruta	В	NS	1659			24.6											*	
		Province: Bale/Adaba	В	NS	1138			27.6												
		Province: Gamogofa/Sawla	В	NS	978			55.6												
		Province: Gojam/Bure	В	NS	1573			21.3												
		Province: Harerghic/Alemmmaya	В	NS	1465			15.7												
		Province: Shoa/Gohatsion	В	NS	870			9.2												
		Province: Shoa/Majetie	В	NS	840			32.4												
		Province: Shoa/Mojo	В	NS	1219			9.6												
		Province: Sidamo/Yabello	В	NS	1667			0.6												
L	1988 -1989	Kembatana-Hadya province: SAC by age	В	NS - 10.99	644	59.2	22.3	81.5										774	*	
		Kembatana-Hadya province: SAC by age	В	11.00 - 15.99	648	53.6	28.9	82.5												
		Kembatana-Hadya province: SAC by sex and age	F	NS - 10.99	238	56.7	36.1	92.8												
		Kembatana-Hadya province: SAC by sex and age	м	NS - 10.99	406	60.3	14.3	74.6												
		Kembatana-Hadya province: SAC by sex and age	F	11.00 - 15.99	281	49.1	43.4	92.5												
		Kembatana-Hadya province: SAC by sex and age	м	11.00 - 15.99	367	57.0	17.7	74.7												
		Kembatana-Hadya province: Women	F	16.00 - 20.99	65	58.4	38.5	96.9												
		Kembatana-Hadya province: Men	М	16.00 - 20.99	66	40.9	9.1	50.0												
		SAC by age and village: Kobo	В	NS - 10.99	532	46.8	16.9	63.7												
		SAC by sex, age and village: Kobo	F	NS - 10.99	284	43.6	21.1	64.7												
		SAC by sex, age and village: Kobo	М	NS - 10.99	248	50.4	12.1	62.5												
		SAC by age and village: Kobo	В	11.00 - 15.99	117	42.7	49.6	92.3												
		SAC by sex, age and village: Kobo	F	11.00 - 15.99	70	35.8	61.4	97.2												
		SAC by sex, age and village: Kobo	М	11.00 - 15.99	47	53.2	31.9	85.1												
		Adults by age and village: Koto	В	16.00 - 20.99	59	27.1	57.6	84.7												
		Adults by sex, age and village: Kobo	F	16.00 - 20.99	27	11.1	81.5	92.6												
		Adults by sex, age and village: Kobo	F	21.00 - NS	284	16.9	93.4	80.3												
		Adults by age and village: Koto	В	21.00 - NS	505	15.0	38.4	53.4												
		Adults by sex, age and village: Kobo	м	16.00 - 20.99	32	40.6	37.5	78.1												
		Adults by sex, age and village: Kobo	М	21.00 - NS	221	12.6	6.3	18.9												
R	1987 -1988	All by region: Urban: Arsi/Hurutta	В	1.00 - 60.99	45											22.8		3153	*	



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						pre	valence ((%)		Dist	ributio	on (%)		Prevalence (%)				1	Note	:5
Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Grade 1	Grade 2	TGP	<20	20-49	50-99	100-299	>300	<100	Median	Mean	SD	Reference	General	Line
R	1987 -1988	All by region: Urban: Gale/Adaba	В	1.00 - 60.99	36											30.5		3153		
		All by region: Urban: Gamogofa/Sawla	В	1.00 - 60.99	78											30.5				
		All by region: Urban: Gojam/Burie	В	1.00 - 60.99	36											30.5				
		All by region: Urban: Hararghe/Alemaya	В	1.00 - 60.99	36											219.5				
		All by region: Urban: Shoa/Majetie	В	1.00 - 60.99	35											44.4				
		All by region: Urban: Shoa/Mojo	В	1.00 - 60.99	38											129.4				
		All by region: Urban: Sidamo/Yavello	В	1.00 - 60.99	49											128				
		All by region: Rural: Arsi/Amijna	В	1.00 - 60.99	30											39.3				
		All by region: Rural: Bale/Kumma	В	1.00 - 60.99	31											45.7				
		All by region: Rural: Gamogofa/DoloDamza	В	1.00 - 60.99	45											10.2				
		All by region: Rural: Gojam/Shinkusta	В	1.00 - 60.99	30											10.2				
		All by region: Rural: Harargie/Sherfraled	В	1.00 - 60.99	31											74.9				
		All by region: Rural: Shoa/Gelem	В	1.00 - 60.99	19											40.6				
		All by region: Rural: Shoa/H,mariam	В	1.00 - 60.99	57											31.7				
		All by region: Rural: Shoa/Lume	В	1.00 - 60.99	30											44.4				
		All by region: Rural: Sidamo/Adijelcheti	В	1.00 - 60.99	51											97.7				
		All by region: Urban: Arsi/Hurutta	В	1.00 - 60.99	787			36.2											*	
		All by region: Urban: Gale/Adaba	В	1.00 - 60.99	522			39.3												
		All by region: Urban: Gamogofa/Sawla	В	1.00 - 60.99	756			58.9												
		All by region: Urban: Gojam/Burie	В	1.00 - 60.99	895			29.8												
		All by region: Urban: Hararghe/Alemaya	В	1.00 - 60.99	727			17.2												
		All by region: Urban: Shoa/Gohatsion	В	1.00 - 60.99	534			4.3												
		All by region: Urban: Shoa/Majetie	В	1.00 - 60.99	694			41.2												
		All by region: Urban: Shoa/Mojo	В	1.00 - 60.99	677			11.4												
		All by region: Urban: Sidame/ Hagereselam	В	1.00 - 60.99	822			10.2												
		All by region: Urban: Sidame/Yavello	В	1.00 - 60.99	833			1.9												
		All by region: Rural: Arsi/Amijna	В	1.00 - 60.99	817			18.6												
		All by region: Rural: Bale/Kumma	В	1.00 - 60.99	487			19.7												
		All by region: Rural: Gamegofa/Dolo Damza	В	1.00 - 60.99	222			44.6												
		All by region: Rural: Gojam/Shinkusta	В	1.00 - 60.99	577			26.3												
		All by region: Rural: Harargie/Sherfraled	В	1.00 - 60.99	587			19.4										I		
		All by region: Rural: Shoa/Gelem	В	1.00 - 60.99	53			73.6										I		
		All by region: Rural: Shoa/H,mariam	В	1.00 - 60.99	432			38.9										I		
		All by region: Rural: Shoa/Jemo	В	1.00 - 60.99	580			25.5										I		
		All by region: Rural: Shoa/Lume	В	1.00 - 60.99	445			9.4										I		
		All by region: Rural: Sidame/Adijelcheti	В	1.00 - 60.99	625			0.2										I		
		All by region: Rural: Sidame/Higete	В	1.00 - 60.99	387			2.1										I		
		All by region: Rural: Sidamo/Asera	В	1.00 - 60.99	196			11.7										I		



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						Goitre			Urinary iodine (μg/L)										Note) c
						pre	valence (%)		Dist	ributio	on (%)		Prevalence (%)					14016	
Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Grade 1	Grade 2	TGP	<20	20-49	50-99	100-299	>300	<100	Median	Mean	SD	Reference	General	Line
L	1987	Awassa Zuria: SAC/Adolescents/Adults: Total	В	6.00 - NS	2055		10.8	38.5						[1388	*	
		SAC/Adolescents/Adults by sex	F	6.00 - NS	659		14.9	49.0												
		SAC/Adolescents/Adults by sex	М	6.00 - NS	1396		8.9	33.5												
		SAC	В	6.00 - 12.00	1416		10.9	39.2												
		Adolescents	В	13.00 - 19.00	627		10.8	37.6												
		Adults	В	20.00 - NS	12		0.0	0.0												

NOTES

ETHIOPIA

Line note 32

Arsi region.

3546a Reference no **General Notes:** School-based survey in Dembi-Dollo area (West Wollega) and Nekemte area (Wollega). Reference no 3199 **General Notes:** Survey covering 10 villages without previous goitre data in 4 regions (Arsi, Gamo-Gofa, Jimma, Shoa); in each village all public elementary schools selected; UI expressed in µmol/L; values converted from µmol/L to µg/L. Line note 1 Arsi region. Line note 2 Arsi region. Line note 3 Arsi region. Line note 4 Arsi region. Line note 5 Arsi region. Line note 6 Arsi region. Line note 7 Gamo-Gofa region. Line note 8 Gamo-Gofa region. Line note 9 Gamo-Gofa region. Line note 10 Gamo-Gofa region. Line note 11 Gamo-Gofa region. Line note 12 Gamo-Gofa region. Line note 13 Gamo-Gofa region. Line note 14 Gamo-Gofa region. Line note 15 Gamo-Gofa region. Line note 16 Jimma region. Line note 17 Jimma region. Line note 18 Jimma region. Line note 19 Jimma region. Line note 20 Jimma region. Line note 21 Jimma region. Line note 22 Shoa region. Line note 23 Shoa region. Line note 24 Shoa region. Line note 25 Shoa region. Line note 26 Shoa region. Line note 27 Shoa region. Line note 28 Shoa region. Line note 29 Shoa region. Line note 30 Shoa region. Line note 31 Arsi region.

Gamo-Gofa region. Line note 33 Line note 34 Gamo-Gofa region. Gamo-Gofa region. Line note 35 Line note 36 Jimma region. Line note 37 Jimma region. Line note 38 Shoa region. Line note 39 Shoa region. Line note 40 Shoa region.

3546b Reference no

General Notes: All SAC/Adolescents in grade 7 and 8 of the Catholic school of Addoo, Dembi-Dollo area, West-Wollega included; less than 50% of the children in the area attends school; sample thus not

representative of all children in Addoo.

1385 Reference no

General Notes: Sample stratified into highlands, lowland and semi-highlands in Wag Himra zone, Sekota district.; 2 farmers associations randomly selected from each strata; sample subjects: members of

the households in the selected farmer associations.

Reference no

Subjects randomly selected from schools in the villages of Kodowono, Lotte and Woidewashe, Gamo-Gofa region. **General Notes:**

Reference no 3152

General Notes: Sample comprised of subjects from 9 regions - 5 previous known endemic areas and 4 nonendemic areas; subjects randomly selected; baseline data (prior to distribution of iodized salt); UI

expressed in µg/24h, values reported in the respective line notes.

UI mean: 54.5 µg/24h Line note 41 UI mean: 34.2 μg/24h Line note 42 UI mean: 25.3 µg/24h Line note 43 UI mean: 22.0 µg/24h Line note 44 Line note 45 UI mean: 148.0 µg/24h UI mean: 24.9 µg/24h Line note 46

UI mean: 30.4 µg/24h Line note 47 UI mean: 83.5 µg/24h

UI mean: 104.0 µg/24h Line note 49

774 Reference no

Line note 48

General Notes: Sample comprised subjects from the Kobo village and subjects from 5 schools in the province of Kembatana-Hadya.

Reference no 3153

General Notes: Sample comprised of 12.703 households, randomly selected after stratification by region and altitude.

Reference no 1388

General Notes:

Schools randomly selected in Awassa Zuria, Sidama Awraja region; children who attended the schools on the day of survey investigated.

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