Global Scorecard 2014: Number of iodine deficient countries more than halved in past decade

Before 1990, only a handful of countries were iodine sufficient. As a result of remarkable efforts in the past two and a half decades, the latest global estimate of iodine nutrition looks more optimistic than ever. Here is a summary of the most important changes since 2012.

Using median UIC in school-age children as proxy for iodine status in the general population, and the same study inclusion criteria as in February 2012 update (see IDD Newsletter 1/2012), the UIC data have been updated for 40 out of the 194 WHO member states. Of these, 36 countries reported new surveys. In four cases, the median UIC was updated to reflect a change in previously reported data, or a pooled median UIC was recalculated after removing out-of-date surveys (from 2002 or older).

Between February 2012 and December 2014, 19 countries have changed their iodine status. Eight countries previously classified as mildly or moderately deficient have now reached sufficient iodine nutri-

tion at the national level (these include Afghanistan, Australia, Ghana, Guatemala, Hungary, Mongolia, New Zealand, and Papua New Guinea). At the same time, Denmark slipped and is now mildly deficient (mUIC=83 mcg/L based on sub-national data from 2008–2010). This means that in 2015 only 25 countries remain iodine deficient, compared to 32 in 2011 (Figure 1). This remarkable progress reflects a growing global awareness of IDD and the tremendous success of iodization programs.

Overall, global iodine status continues to improve (*Table 1*). According to the available data, Haiti is the only country which changed status from mildly to moderately deficient. Remarkably, there have been no countries in the "severely deficient" category (i.e., with a median UIC <20 µg/L) for more than a decade, which is a testament to the countries' commitment to sustaining their IDD achievements.

In 2014 the UIC data cover approximately 97.8% of the world's population of school-age children, compared to 96% in

February 2012. Countries that previously had no data that have new UIC estimates include South Sudan (a new WHO state). Sierra Leone, North Korea, South Korea, and Thailand. The proportion of the global population covered by national-level surveys has also increased, now at 71% (compared to 60% in 2012). National-level data were previously not available for Australia, Austria, Brazil, Ghana, Guatemala, Papua New Guinea, Qatar, and Venezuela. Yet, data is still missing for 41 countries. And although these include only 2% of the world's population of children, they also include countries with relatively large populations, such as Israel, Iraq, Syria and Congo.

The complete Global Scorecard for 2014 can now be downloaded from the IGN website, www.ign.org.

FIGURE 1 Number of iodine deficient countries in 2003, 2007, 2011, and 2014

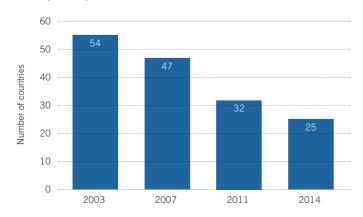


TABLE 1 WHO countries (number) by iodine status over the period 2003-2014.

lodine intake	WHO median/ range of UIC in SAC (µg/L)	2003	2007	2011	2014
Insufficient iodine intake					
Severe deficieny	<20	1	0	0	0
Moderate deficiency	20-49	13	10	9	7
Mild deficiency	50-99	40	37	23	18
Sufficient ¹	100-299	67	76	105	116
Excessive	≥300	5	7	11	12
Countries with data		126	130	148	153
Total number of countries		192	193	193	194

 $^{^{\}rm 1}$ The WHO classifications for adequate and more than adequate have been combined into a single classification of "sufficient."

Afghanistan 31'281 20.4 171 Adequate 838 Albania 3'185 75.6 86 Insufficient 10 Algeria 39'929 60.7 27* Insufficient 372 Andorra 80 - - N/A - Angola 22'137 44.7 29 Insufficient 517 Antigua and Barbuda 91 - - N/A - Argentina 41'803 - 136 Adequate - Armenia 2'984 97 313 Excessive 1 Austria 8'526 - 111 Adequate - Austria 8'526 - 111 Adequate - Baharas 383 - N/A - Bahrain 1'344 - 247 More than adequate - Bangladesh 158'513 57.6 163 Adequate 15 Belgium <td< th=""><th>Country or territory</th><th>Total population 2014 (000)</th><th>Households consuming iodized salt (%)¹</th><th></th><th>Country iodine status</th><th>lodine deficiency unprotected infants (000)</th></td<>	Country or territory	Total population 2014 (000)	Households consuming iodized salt (%) ¹		Country iodine status	lodine deficiency unprotected infants (000)
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Dominica 72 N/A -	-					
Dominican Republic 10'529 – 223 More than adequate –			_			
DPR Korea 25'027 24.5 97 Insufficient 269			24.5			

Country or territory	Total population 2014 (000)	Households consuming iodized salt (%)1	Median UIC (μg/L) ²⁻⁴	Country iodine status	lodine deficiency unprotected infants
	(000)	Sait (70)			(000)
DR Congo	69'360	58.6	249	More than adequate	1'176
Ecuador	15'983	_	234	More than adequate	_
Egypt	83'387	77.7	187	Adequate	423
El Salvador	6'384	62	206	More than adequate	48
Equatorial Guinea	778	_	_	N/A	_
Eritrea	6'536	68	175*	Adequate	73
Estonia	1'284	_	65*	Insufficient	_
Ethiopia	96'506	19.9	25	Insufficient	2'470
Fiji	887	_	237	More than adequate	_
Finland	5'443	_	83	Insufficient	_
France	64'641	_	136	Adequate	_
Gabon	1'711	_	190*	Adequate	_
Gambia	1'909	22	42*	Insufficient	60
Georgia	4'323	99.9	321	Excessive	0
Germany	82'652	_	122	Adequate	_
Ghana	26'442	34.5	130	Adequate	520
Greece	11'128	_	202*	More than adequate	_
Grenada	106	_	_	N/A	_
Guatemala	15'860	_	144	Adequate	_
Guinea	12'044	_	139	Adequate	_
Guinea-Bissau	1'746	11.7	_	N/A	56
Guyana	804	10.3	169*	Adequate	15
Haiti	10'461	3	39	Insufficient	257
Honduras	8'261	_	356	Excessive	_
Hungary	9'933	_	228	More than adequate	_
Iceland	333	_	200	More than adequate	_
India	1'267'402	71.1	153	Adequate	7'411
Indonesia	252'812	57.6	215	More than adequate	2'008
Iran	78'470	_	141	Adequate	_
Iraq	34'769	29	_	N/A	736
Ireland	4'677	_	82*	Insufficient	_
Israel	7'822	_		N/A	_
Italy	61'070	_	91	Insufficient	_
Jamaica	2'799	_		N/A	_
Japan	127'000	_	287	More than adequate	_
Jordan	7'505	_	203	More than adequate	_
Kazakhstan	16'607	85.4	250	More than adequate	50
Kenya	45'546	93.4	118	Adequate	101
Kiribati	104	-	-	N/A	_
Kuwait	3'479	_	115	Adequate	_
Kyrgyzstan	5'625	76.1	114	Adequate	35
Lao	6'894	_	103	Adequate	_
Latvia	2'041		110	Adequate	
Lebanon	4'966	74.8	66	Insufficient	16
Lesotho	2'098	79.4	215	More than adequate	12
Liberia	4'397	-	244	More than adequate	
Libya					
	6'253	_	- 06	N/A Insufficient	
Lithuania	37	_	96	Insufficient	_
Luvamboura	3'008	_	75*	Insufficient	
Luxembourg	537	_	148	Adequate	

Country or territory	Total population 2014 (000)	Households consuming iodized salt (%) ¹		Country iodine status	lodine deficiency unprotected infants (000)
Madagascar	23'572	50.3	_	N/A	388
Malawi	16'829	62.1	175	Adequate	242
Malaysia	30'188	_	109	Adequate	_
Maldives	352	44	115	Adequate	4
Mali	15'768	74.4	69	Insufficient	180
Malta	430	_	_	N/A	_
Marshall Islands	53	_	_	N/A	_
Mauritania	3'984	7.3	179	Adequate	121
Mauritius	1'249	_	160*	Adequate	_
Mexico	123'799	91	235*	More than adequate	204
Micronesia	104	_	_	N/A	_
Moldova	3'461	44.3	165	Adequate	24
Monaco	38	_	_	N/A	_
Mongolia	2'881	69.9	171	Adequate	19
Montenegro	622	70.7	174	Adequate	2
Morocco	33'493	21.2	69*	Insufficient	582
Mozambique	26'473	25.1	97	Insufficient	745
Myanmar	53'719	68.8	124	Adequate	288
Namibia	2'348	57.4	216*	More than adequate	25
Nauru	10	37.4	210	N/A	23
Nepal	28'121	80	193	Adequate	119
Netherlands	16'802	00	154*	Adequate	119
New Zealand	4'551	_	113	Adequate	_
					4
Nicaragua	6'169	96.8	196	Adequate	699
Niger	18'535	18.6	270*	More than adequate	
Nigeria	178'517	79.8	130	Adequate	1'420
Norway	5'092	-	104*	Adequate	-
Oman	3'926	68.5	194	Adequate	23
Pakistan	185'133	69.1	124	Adequate	1'423
Palau	21	-	-	N/A	-
Palestinian State	4'436	76.6	193	Adequate	30
Panama	3'926	_	254	More than adequate	_
Papua New Guinea	7'476	91.9	170	Adequate	17
Paraguay	6'918	93.4	352	Excessive	11
Peru	30'769	88.3	262	More than adequate	70
Philippines	100'096	44.5	168	Adequate	1'322
Poland	38'221	-	112	Adequate	_
Portugal	10'610	-	106	Adequate	-
Qatar	2'268	-	341	Excessive	_
Republic of Korea	49'512	-	268	More than adequate	_
Romania	21'640	74	102	Adequate	58
Russian Federation	142'468	-	78*	Insufficient	_
Rwanda	12'100	87.4	298*	More than adequate	52
Saint Kitts and Nevis	55	-	_	N/A	_
Saint Lucia	184	45.5	_	N/A	2
Saint Vincent & the Grenadines	109	_	_	N/A –	
Samoa	192	_	_	N/A	-
San Marino	32	_	_	N/A	-
Sao Tome and Principe	198	64.8	_	N/A	2

Country or territory	Total population 2014 (000)	Households consuming iodized salt (%) ¹	Median UIC (µg/L) ²⁻⁴	Country iodine status	lodine deficiency unprotected infants (000)
Saudi Arabia	29'369	_	133	Adequate	_
Senegal	14'548	43.1	104	Adequate	298
Serbia	9'468	32.2	195	Adequate	64
Seychelles	93	_	_	N/A	_
Sierra Leone	6'205	62.6	158	Adequate	83
Singapore	5'517	_	_	N/A	_
Slovakia	5'454	_	183	Adequate	_
Slovenia	2'076	_	140	Adequate	_
Solomon Islands	573	_	_	N/A	_
Somalia	10'806	3.9	417	Excessive	435
South Africa	53'140	_	215	More than adequate	_
South Sudan	11'739	45.3	94	Insufficient	216
Spain	47'066	_	117	Adequate	_
Sri Lanka	21'446	92.4	153	Adequate	29
Sudan	38'764	9.5	66	Insufficient	1'143
Suriname	544	_	_	N/A	_
Swaziland	1'268	51.6	120*	Adequate	18
Sweden	9'631	_	125	Adequate	_
Switzerland	8'158	_	120	Adequate	_
Syria	21'987	79.3	_	N/A	110
Tajikistan	8'409	38.6	108	Adequate	163
Tanzania	50'757	55.7	204	More than adequate	841
TFYR Macedonia	2'108	94	241	More than adequate	1
Thailand	67'223	70.9	262	More than adequate	204
Timor-Leste	1'152	59.9	_	N/A	16
Togo	6'993	31.5	171	Adequate	168
Tonga	106	_	_	N/A	_
Trinidad and Tobago	1'344	27.9	_	N/A	14
Tunisia	11'117	96.7	220	More than adequate	6
Turkey	75'837	68.9	107	Adequate	394
Turkmenistan	5'307	75.3	170	Adequate	28
Tuvalu	10	_	_	N/A	_
Uganda	38'845	86.8	464	Excessive	210
Ukraine	44'941	20.7	90	Insufficient	392
United Arab Emirates	9'446	_	162	Adequate	_
United Kingdom	63'489	_	80	Insufficient	_
United States	322'583	_	215	More than adequate	_
Uruguay	3'419	_	310	Excessive	_
Uzbekistan	29'325	53.1	141	Adequate	292
Vanuatu	258	22.9	49	Insufficient	5
Venezuela	30'851	_	175	Adequate	_
Vietnam	92'548	45.1	139	Adequate	790
Yemen	24'969	29.5	173*	Adequate	530
Zambia	15'021	63.9	245	More than adequate	220

¹UNICEF. UNICEF Data: Monitoring the situation of children and women. http://data.unicef.org/nutrition/iodine [Accessed on 12 December 2014]. New York, United Nations Children's Fund

²Andersson M, Karumbunathan V, Zimmermann MB. Global iodine status in 2011 and trends over the past decade. J Nutr. 2012;142(4):744-50

³Zimmermann MB, Andersson M. Update on iodine status worldwide. Curr Opin Endocrinol Diabetes Obes. 2012;19(5):382-7

⁴Table updated on 31 January 2015 *Survey conducted before 2002