

Assessing and addressing the global state of food production data scarcity

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15 **Table S1. FAIR principles criteria used to assess the transparency of agricultural**
 16 **census reports.**

	Criteria	Score (Y/N)
Findable	F1. Does the report use persistent identifiers for datasets?	0-1
	F2. Does the report include clear metadata about the datasets?	0-1
	F3. Is the report easy to find through search engines or repositories?	0-1
Accessible	A1. Are the datasets openly accessible or are there clear policies for access and sharing?	0-1
	A2. Are the datasets available in a variety of formats to accommodate different users?	0-1
Interoperable	I1. Is the data structured and formatted in a way that is compatible with other data sources?	0-1
	I2. Does the report provide clear information about data schemas, ontologies, or standards used?	0-1
Reusable	R1. Is the report well-documented with clear licensing and provenance information?	0-1
	R2. Are the datasets suitable for re-use in other contexts or applications?	0-1

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32 **Table S2. Transparency classes assigned for census reports.**

Score	Transparency class
0	No agricultural census
1 to 2	No transparency
3 to 4	Low transparency
5 to 6	Moderate transparency
7 to 9	High transparency

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35 **Table S3. Transparency score of each country's agricultural census report according**
 36 **to FAIR criteria.**
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Country name	Admin Level	Census year	Findable			Accessible		Interoperable		Reusable		FAIR score
			F1	F2	F3	A1	A2	I1	I2	R1	R2	
Afghanistan	2	2003	1	1	1	1	0	0	1	1	0	6
Albania	1	2012	1	1	1	1	0	0	0	0	0	4
Algeria	1	2001	1	1	1	1	0	0	1	0	0	5
American Samoa (US)	2	2018	1	1	1	1	1	1	1	1	1	9
Andorra	0	0	0	0	0	0	0	0	0	0	0	0
Angola	1	2019	0	0	0	1	1	0	1	1	0	4
Anguilla (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
Antigua and Barbuda	0	2007	1	1	1	0	0	0	0	0	0	3
Argentina	2	2018	1	1	1	1	1	1	1	1	1	9
Armenia	1	2014	1	1	1	1	1	1	0	0	1	7
Aruba	-99	0	0	0	0	0	0	0	0	0	0	0
Australia	2	2020	1	0	1	1	1	1	1	1	1	8
Austria	1	2020	1	1	1	1	1	1	1	1	1	9
Azerbaijan	2	2015	1	1	1	1	0	0	1	0	0	5
Bahamas, The	0	1994	0	1	1	0	0	0	0	0	0	2
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0
Baker Island (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Bangladesh	2	2019	1	0	1	1	0	0	1	1	0	5
Barbados	0	1989	1	1	0	0	0	0	1	0	0	3
Belarus*	1	2019	1	1	1	1	0	0	1	1	0	6
Belgium	2	2020	1	0	1	1	1	1	1	0	1	7
Belize	1	2011	1	1	1	0	0	0	1	0	0	4
Benin	1	1992	0	1	1	0	0	0	1	0	0	3
Bermuda (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
Bhutan**	1	2019	0	0	1	1	0	1	1	1	1	6
Bolivia	1	2013	1	1	1	1	0	0	1	1	1	7
Bonaire (Neth.)	-99	0	0	0	0	0	0	0	0	0	0	0
Bosnia and Herzegovina	1	0	0	0	0	0	0	0	0	0	0	0
Botswana	1	2015	1	1	1	1	0	0	1	1	0	6
Brazil	2	2017	1	1	1	1	1	1	1	1	1	9
British Indian Ocean Territory (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
British Virgin Islands (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
Brunei Darussalam	0	0	0	0	0	0	0	0	0	0	0	0
Bulgaria	1	2020	1	0	1	1	1	1	1	1	1	8
Burkina Faso	2	2006	1	1	1	1	0	0	1	1	0	6

Isle of Man (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
Israel	2	2017	1	1	1	1	1	1	1	0	1	8
Italy	2	2010	1	1	1	1	1	1	1	1	1	9
Jamaica	1	2007	1	1	1	1	0	0	1	1	0	6
Japan	1	2020	1	1	1	1	1	1	1	1	1	9
Jarvis Island (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Jersey (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
Johnston Atoll (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Jordan	1	2017	1	1	1	1	1	1	1	1	1	9
Kazakhstan	1	2007	1	1	1	1	1	0	0	1	0	6
Kenya*	2	2019	1	0	1	1	0	0	1	1	0	5
Kingman Reef (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Kiribati	-99	0	0	0	0	0	0	0	0	0	0	0
Korea, Dem. People's Rep.	0	0	0	0	0	0	0	0	0	0	0	0
Korea, Rep.	1	2020	1	0	1	1	0	0	1	1	0	5
Kosovo	-99	0	0	0	0	0	0	0	0	0	0	0
Kuwait	1	0	0	0	0	0	0	0	0	0	0	0
Kyrgyz Republic	1	0	0	1	1	0	0	0	1	0	0	3
Lao PDR	1	2019	1	0	1	1	0	0	1	1	0	5
Latvia	0	2020	1	1	1	1	1	1	0	0	1	7
Lebanon	1	2010	1	1	1	1	1	0	0	1	0	6
Lesotho	1	2020	1	0	1	1	0	0	1	1	0	5
Liberia	1	0	0	0	0	0	0	0	0	0	0	0
Libya	0	2001	1	1	0	0	0	0	1	0	0	3
Liechtenstein	0	0	0	0	0	0	0	0	0	0	0	0
Lithuania	2	2020	1	0	1	1	1	1	1	0	1	7
Luxembourg	1	2020	1	1	1	1	1	1	1	0	1	8
Macau (SAR, China)	-99	0	0	0	0	0	0	0	0	0	0	0
Madagascar	1	2005	0	1	1	1	0	0	1	1	0	5
Malawi	2	2007	1	1	1	1	0	0	1	1	0	6
Malaysia	1	2005	1	1	0	0	0	0	1	0	0	3
Maldives	0	0	0	0	0	0	0	0	0	0	0	0
Mali	1	2004	0	1	1	1	0	0	1	1	0	5
Malta	2	2020	1	1	1	1	0	0	1	1	1	7
Marshall Islands	0	2021	0	0	1	0	0	0	1	0	0	2
Mauritania	0	0	0	0	0	0	0	0	0	0	0	0
Mauritius	1	2014	1	1	1	1	0	0	1	1	0	6
Mexico	2	2016	1	1	1	1	1	0	1	1	1	8
Micronesia, Federated States of	0	0	0	0	0	0	0	0	0	0	0	0
Midway Islands (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Moldova	1	2011	1	1	1	1	0	0	1	1	0	6

Monaco	-99	0	0	0	0	0	0	0	0	0	0	0
Mongolia	2	2011	1	1	1	1	0	0	1	1	0	6
Montenegro	1	2010	1	1	1	1	0	0	1	1	0	6
Montserrat (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
Morocco	1	2016	1	1	1	1	0	0	1	0	0	5
Mozambique	1	2010	1	1	1	1	0	0	1	1	0	6
Myanmar	1	2010	1	1	1	1	0	0	1	1	0	6
Namibia	1	2013	1	1	1	1	0	0	1	1	0	6
Nauru	0	0	0	0	0	0	0	0	0	0	0	0
Navassa Island (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Nepal	1	2011	1	1	1	1	0	0	1	1	0	6
Netherlands	1	2020	1	1	1	1	1	1	1	1	1	9
New Caledonia (Fr.)	1	1991	0	1	1	0	0	0	0	0	0	2
New Zealand	2	2017	1	1	1	1	1	1	1	1	1	9
Nicaragua	1	2011	1	1	1	1	0	0	1	1	0	6
Niger	2	2004	1	1	1	1	0	0	1	1	0	6
Nigeria	1	0	0	0	0	0	0	0	0	0	0	0
Niue (NZ)	1	0	0	0	0	0	0	0	0	0	0	0
Norfolk Island (Aus.)	-99	0	0	0	0	0	0	0	0	0	0	0
North Macedonia	1	2007	1	1	1	1	0	0	1	1	0	6
Northern Mariana Islands (US)	1	2018	1	1	1	1	1	1	1	1	1	9
Norway	1	2020	1	0	1	1	1	1	1	0	1	7
Oman	1	2012	1	1	1	0	0	0	1	0	0	4
Pakistan	2	2010	1	1	1	1	0	0	1	1	0	6
Palau*	1	2015	1	1	1	0	0	0	1	0	0	4
Palmyra Atoll (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Panama	2	2011	1	1	1	1	1	1	1	1	1	9
Papua New Guinea	0	0	0	0	0	0	0	0	0	0	0	0
Paraguay	2	2008	1	1	1	1	0	0	1	1	0	6
Peru	1	2012	1	1	1	1	0	0	1	1	0	6
Philippines	2	2012	1	1	1	1	0	0	1	1	0	6
Pitcairn Islands (UK)	-99	0	0	0	0	0	0	0	0	0	0	0
Poland	1	2020	1	0	1	1	1	1	1	1	1	8
Portugal	1	2019	1	1	1	1	1	1	1	1	1	9
Puerto Rico (US)	1	2018	1	1	1	1	1	1	1	1	1	9
Qatar	1	2021	1	0	1	1	0	0	1	1	0	5
Romania	1	2020	1	1	1	1	1	1	1	1	1	9
Russian Federation	2	2016	1	1	1	1	0	0	1	1	0	6
Rwanda	2	2008	1	1	1	1	0	0	1	1	0	6

Syrian Arab Republic	0	0	0	0	0	0	0	0	0	0	0	0
Tajikistan	0	2013	1	0	1	1	0	0	1	1	0	5
Tanzania	2	2019	1	1	1	1	0	0	1	1	0	6
Thailand	1	2013	1	1	1	1	1	1	1	1	1	9
Timor-Leste	2	2019	1	1	1	1	0	0	1	1	0	6
Togo	1	2012	1	1	1	1	0	0	1	1	0	6
Tokelau (NZ)	0	0	0	0	0	0	0	0	0	0	0	0
Tonga	1	2015	1	1	1	1	0	0	1	1	0	6
Trinidad and Tobago	1	2004	0	1	1	1	0	0	1	1	0	5
Tunisia	1	2005	0	1	1	1	0	0	1	1	0	5
Turkiye	1	2001	1	1	1	0	0	0	1	0	0	4
Turkmenistan	0	0	0	0	0	0	0	0	0	0	0	0
Turks and Caicos Islands	-99	0	0	0	0	0	0	0	0	0	0	0
Tuvalu*	1	2017	1	1	1	1	0	0	1	1	0	6
U.S. Virgin Islands (US)	1	2018	1	1	1	1	1	1	1	1	1	9
Uganda	2	2008	1	1	1	1	0	0	1	1	0	6
Ukraine	1	0	0	0	0	0	0	0	0	0	0	0
United Arab Emirates	0	0	0	0	0	0	0	0	0	0	0	0
United Kingdom	1	2010	1	1	1	1	1	1	1	1	1	9
United States	3	2017	1	1	1	1	1	1	1	1	1	9
Uruguay	1	2011	1	1	1	1	1	1	1	1	1	9
Uzbekistan	0	0	0	0	0	0	0	0	0	0	0	0
Vanuatu	1	0	0	0	0	0	0	0	0	0	0	0
Vatican City	-99	0	0	0	0	0	0	0	0	0	0	0
Venezuela, RB	1	2008	1	1	1	0	0	0	1	1	0	5
Vietnam	1	2016	1	1	1	1	0	0	1	1	0	6
Wake Island (US)	-99	0	0	0	0	0	0	0	0	0	0	0
Wallis-et-Futuna (Fr.)	-99	0	0	0	0	0	0	0	0	0	0	0
West Bank and Gaza	-99	0	0	0	0	0	0	0	0	0	0	0
Yemen, Rep.	0	2002	1	1	1	0	0	0	1	0	0	4
Zambia	1	2000	0	1	1	1	0	0	1	1	0	5
Zimbabwe	0	0	0	0	0	0	0	0	0	0	0	0

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39 * Population census with agriculture module

40 ** Renewable natural resource census

41 *** Economic census (a chapter on agricultural production)