

## FEED THE FUTURE ENABLING ENVIRONMENT FOR FOOD SECURITY PROJECT

## Water Governance Scorecard 2019

This scorecard summarizes publicly available datasets for national water system governance as they relate to agricultural production and use. It provides insights into potential performance gaps affecting water governance and draws out comparative metrics on possible legal, regulatory, or institutional gaps in the water system.

COUNTRY BACKGROUND INFORMATION. This section provides an overview of general data related to a water system in each Feed the Future priority country as well as background information and context on water resource availability and use.

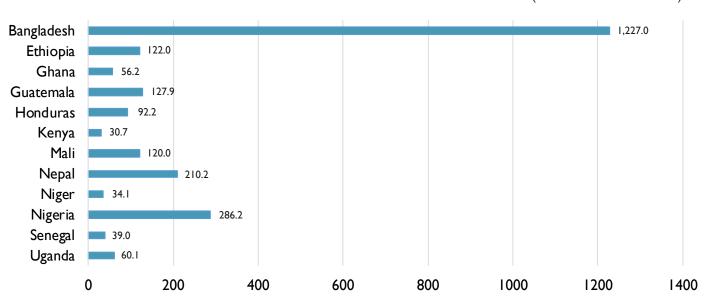
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TABLE 1.WATER RESOURCES BY CO	DUNTRY	راجي	/ .,, /	/ _ /	ala	/ 18 /	/ , ,	/. ,	/、/	/ , ,	/:/	/ 🔊 /
		ingladesh k	thiopia	Shana	Jatemala H	onduras	Lery <sup>2</sup>	Mali .	Lepal ,	Liger /	Ligeria C	seriegal (
		<u>/`</u>			<u> </u>							
OVERVIEW												
Water resources per capita (thousand m³)	7.6	1.2	2.1	7.8	11.4	0.7	6.8	7.4	1.7	1.6	2.6	1.5
Dam capacity per capita (hundred m³)*	0.4	3.2	54.2	0.3	7.2	5.4	7.8	0	0	2.8	0.2	20.5
Water withdrawal per capita $(m^3 per year)^{\dagger}$	231	106	50	241	225	76	377	364	68	74	214	18
CLIMATE												
National Rainfall Index (m per year)	2.3	1.1	1.1	2.2	1.6	0.9	0.6	1.8	0.3	1.3	0.6	1.4
Annual variability (index, 0 is low, 5 is high)	0.7	1.8	1.4	1.0	1.3	3.2	1.3	1.0	1.9	1.2	1.8	1.7
Seasonal variability (index, 0 is low, 5 is high)	3.6	3.3	3.0	3.1	2.9	1.9	4.0	4.1	3.6	3.6	3.9	1.6
WATER USE												
Agricultural water withdrawal (%)	88	92	66	57	73	59	98	98	67	44	93	41
Industrial water withdrawal (%)	2	I	10	18	7	4	0	0	3	16	3	8
Municipal water withdrawal (%)	10	10	24	25	20	37	2	2	30	40	4	51
POTABILITY	·	^							^			
Urban population with potable water (%)	87	93	93	98	97	82	97	91	100	81	93	96
Rural population with potable water (%)	87	49	84	87	84	57	64	92	49	57	67	76

<sup>\*</sup> Global average is 9.6 hundred m³ per person † Global average is 568 m³ per person per year

Data adapted from FAO AQUASTAT 2016.

## GRAPH I. VOLUME OF TOTAL AVAILABLE RENEWABLE WATER RESOURCES BY COUNTRY (BILLION CUBIC METERS)

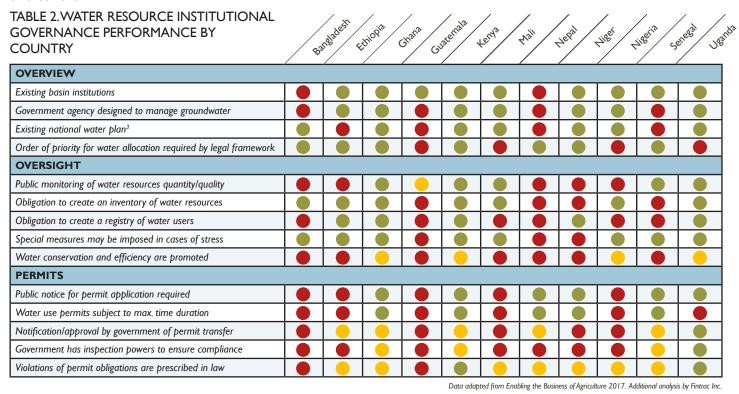


Data source: FAO AQUASTAT 2016.

1. FAO. 2016. AQUASTAT Main Database, Food and Agriculture Organization of the United Nations (FAO). Website accessed February 2019. http://www.fao.org/nr/water/aquastat/data/query/index.html?lang=en

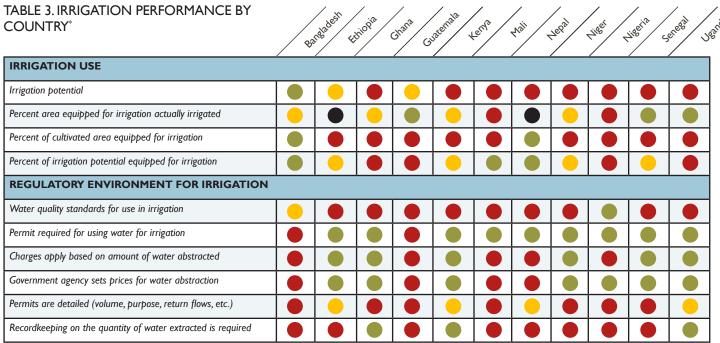


WATER RESOURCE INSTITUTIONAL GOVERNANCE. While many Feed the Future countries have existing water basin institutions and government agencies designed to manage water, few have to regulate and protect water resources through permits and clear enforcement.<sup>2</sup>



IRRIGATION. Underutilization of existing irrigation systems limits production capacity. Once irrigation systems are installed and functioning, the regulatory environment should encourage proper and efficient use of water resources through permits, established pricing schemes, and oversight of government agencies.4

Some improvement needed



Data adapted from FAO AQUASTAT 2016 and Enabling the Business of Agriculture 2017. Additional analysis by Fintrac Inc.

Serious improvement needed

No data available

Performing best practices

<sup>\*</sup>Honduras was not included in the 2017 Enabling the Business of Agriculture Index but is anticipated to be included in the 2019 revision. This scorecard will be updated at that time.

<sup>2.</sup> World Bank Group. Enabling the Business of Agriculture 2017. Report. Washington, DC: World Bank Group, 2017. Website accessed February 2019. http://pubdocs.worldbank.org/en/159731534213578339/EBA17-Water.pdf
3. Per the World Bank's Enabling the Business of Agriculture 2017, national water plans guide allocation decisions, reducing the likelihood of situations where resources are over-allocated and irrigation needs go unmet.
4. World Bank Group. Enabling the Business of Agriculture 2017. Report. Washington, DC: World Bank Group, 2017. Website accessed February 2019. http://pubdocs.worldbank.org/en/159731534213578339/EBA17-Water.pdf