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Supplemental Material

Monitoring Drinking Water Quality in Nationally Representative Household Surveys in Low- and Middle-Income Countries: Cross-Sectional Analysis of 27 Multiple Indicator Cluster Surveys 2014–2020

Robert Bain, Richard Johnston, Shane Khan, Attila Hancioglu, and Tom Slaymaker

Table of Contents

Water testing equipment and consumables

Figure S1. Equipment and consumables used for water quality testing Photo credit: Yadigar Coskun.

Differences in *E. coli* risk level between point of collection and point of use

Figure S2. Change in *E. coli* risk level for households. Differences refer to changes in risk classification based on the number of colony forming units (CFU) per 100 mL as follows: <1 “Low risk”, 1-10 “Moderate risk”, 11-100 “High risk” and >100 “Very high risk”. CAR – Central African Republic, LaoPDR – Lao People’s Democratic Republic, STP – Sao Tome and Principe.

Differences in *E. coli* risk level for households with *E. coli* detected at point of collection and reporting appropriate treatment practices

Figure S3. Difference in *E. coli* risk level between point of collection and point of use for households with *E. coli* detected at point of collection and reporting appropriate treatment practices. Differences refer to changes in risk classification based on the number of colony forming units (CFU) per 100 mL as follows: <1 “Low risk”, 1-10 “Moderate risk”, 11-100 “High risk” and >100 “Very high risk”. Appropriate water treatment practices include boiling, filtration, adding chlorine and solar disinfection. CAR – Central African Republic, LaoPDR – Lao People’s Democratic Republic, STP – Sao Tome and Principe. Excludes STP and Palestine where <25 samples available for households with contamination at the point of collection and reporting appropriate household water treatment practices.

***E. coli* risk level at point of use for households with *E. coli* detected at point of collection and reporting appropriate treatment practices**

Figure S4. *E. coli* risk level at point of use for households with contaminated drinking water sources reporting appropriate treatment practices. Appropriate water treatment practices include boiling, filtration, adding chlorine and solar disinfection. CAR – Central African Republic, LaoPDR – Lao People’s Democratic Republic, STP – Sao Tome and Principe. Excludes STP and Palestine where <25 samples available for households with contamination at the point of collection and reporting appropriate household water treatment practices.

Inconsistency checks

Table S1. Proportion of *E. coli* samples flagged as potentially inconsistent.

Blanks tests results

Table S2. Proportion of blank tests with detectable *E. coli*.

Main source versus source of sample

Table S3. Concordance between main water source and source of the sample of drinking water provided by survey respondents.

Table S4. Mean monthly precipitation above yearly mean precipitation.

Main reasons point of collection sample not collected

Table S5. Main reasons point of collection sample not collected.

Main reasons drinking water unavailable

Table S6. Main reasons drinking water unavailable.

Additional File- Excel Document

Water testing equipment and consumables

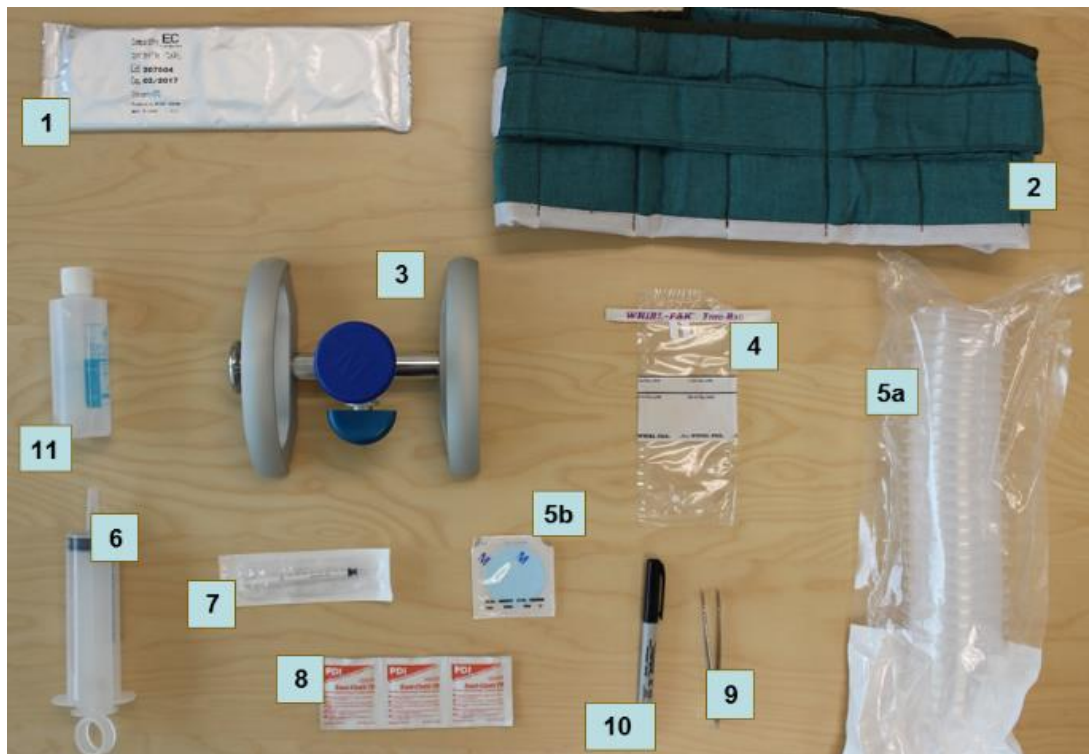


Figure S1: Equipment and consumables used for water quality testing

Photo credit: Yadigar Coskun

<ol style="list-style-type: none">1. CompactDry™ plates (<i>E. coli</i>)2. Incubation belt3. Membrane filtration manifold4. WhirlPak™ bags for sample collection5a. Funnels5b. Filter membrane6. Large syringe (100 mL)7. 1 mL disposable syringe8. Alcohol wipe8. Incubation belt9. Marker pen10. Forceps11. Hand sanitizer gel	<p>Additional equipment:</p> <ul style="list-style-type: none">• Bags for transporting the water testing kit• Tissue paper• Waste disposal bags• Mineral or deionized water for blank test• Household bleach solution*• Bucket for disinfection*• Gloves for disinfection*
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*Alternatively chlorine tablets can be used for disinfection of CompactDry™ plates.

Differences in *E. coli* risk level between point of collection and point of use

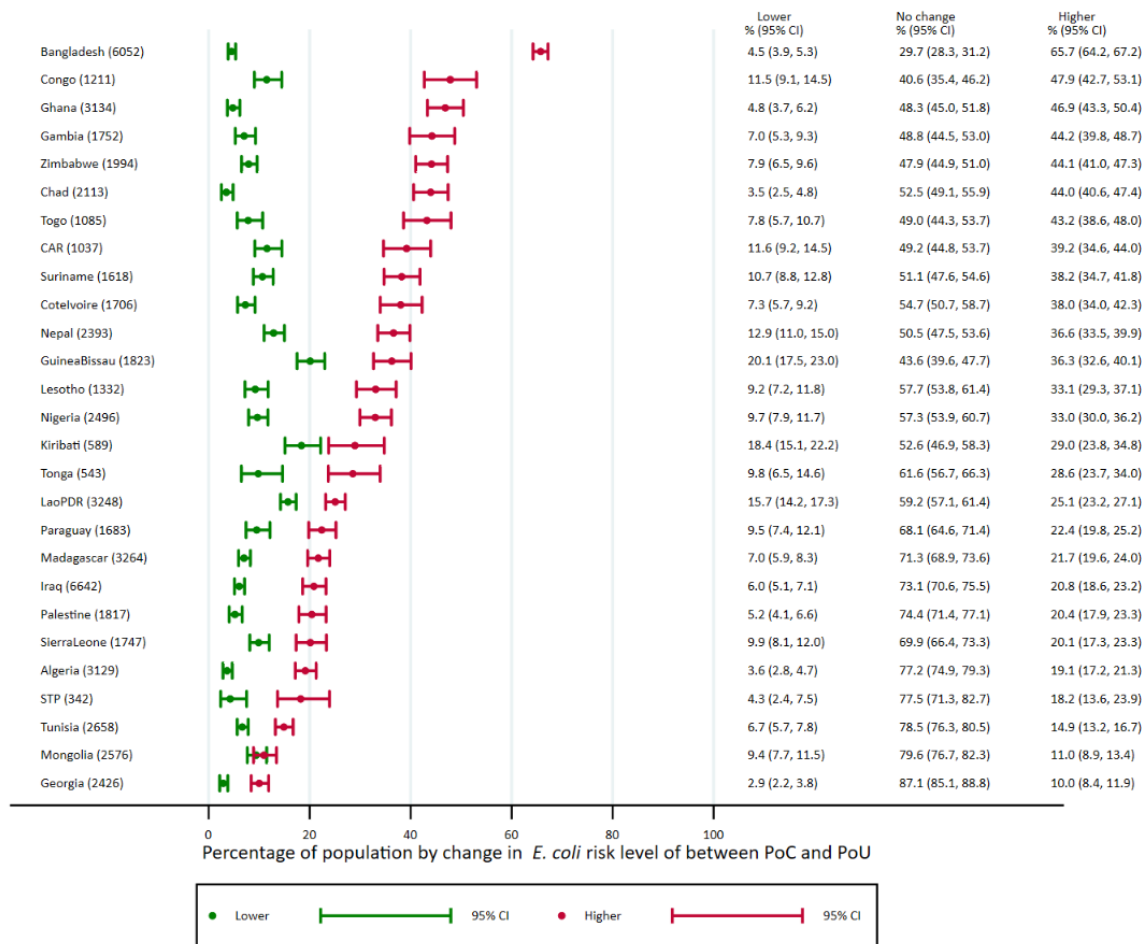


Figure S2: Change in *E. coli* risk level for households. Differences refer to changes in risk classification based on the number of colony forming units (CFU) per 100 mL as follows: <1 “Low risk”, 1-10 “Moderate risk”, 11-100 “High risk” and >100 “Very high risk”. CAR – Central African Republic, LaoPDR – Lao People’s Democratic Republic, STP – Sao Tome and Principe.

Differences in *E. coli* risk level for households with *E. coli* detected at point of collection and reporting appropriate treatment practices

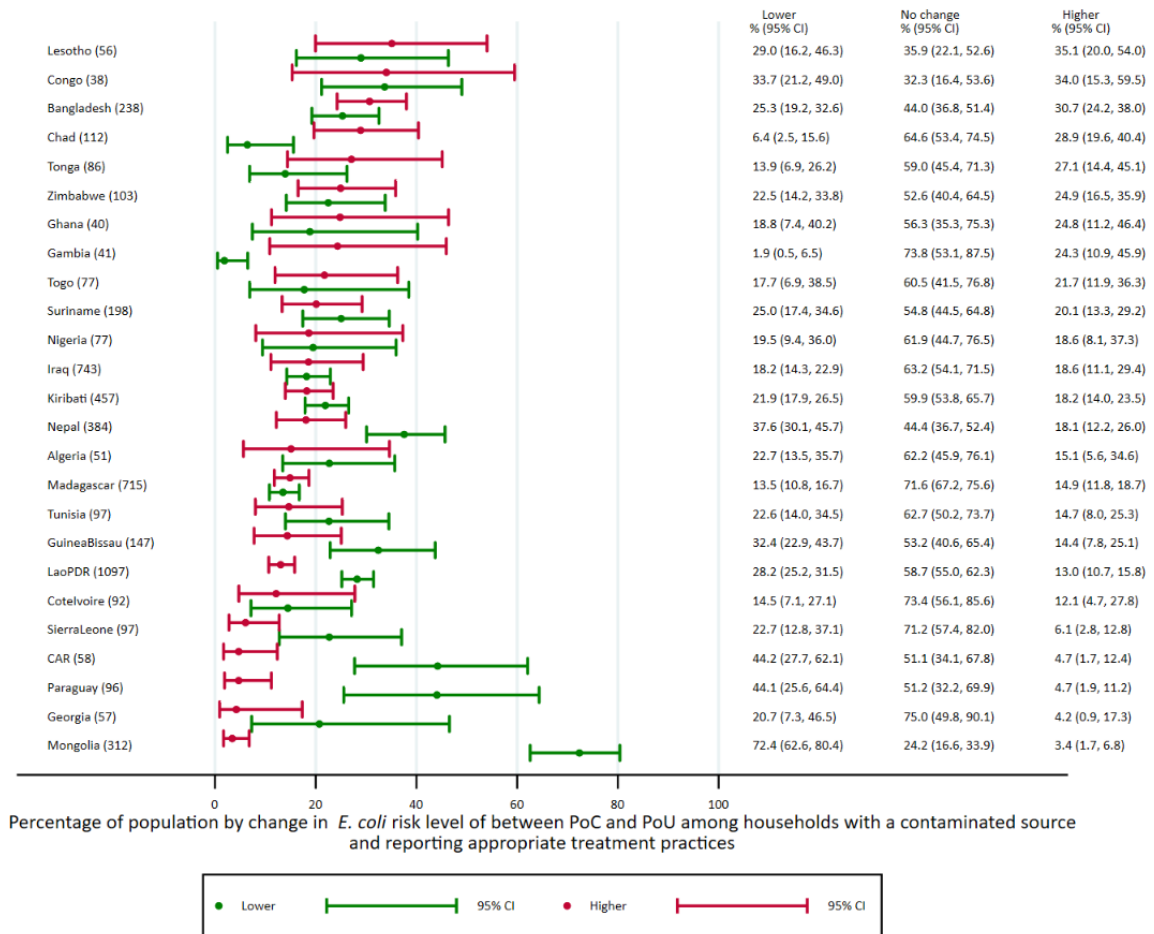


Figure S3: Difference in *E. coli* risk level between point of collection and point of use for households with *E. coli* detected at point of collection and reporting appropriate treatment practices. Differences refer to changes in risk classification based on the number of colony forming units (CFU) per 100 mL as follows: <1 “Low risk”, 1-10 “Moderate risk”, 11-100 “High risk” and >100 “Very high risk”. Appropriate water treatment practices include boiling, filtration, adding chlorine and solar disinfection. CAR – Central African Republic, LaoPDR – Lao People’s Democratic Republic, STP – Sao Tome and Principe. Excludes STP and Palestine where <25 samples available for households with contamination at the point of collection and reporting appropriate household water treatment practices.

***E. coli* risk level at point of use for households with *E. coli* detected at point of collection and reporting appropriate treatment practices**

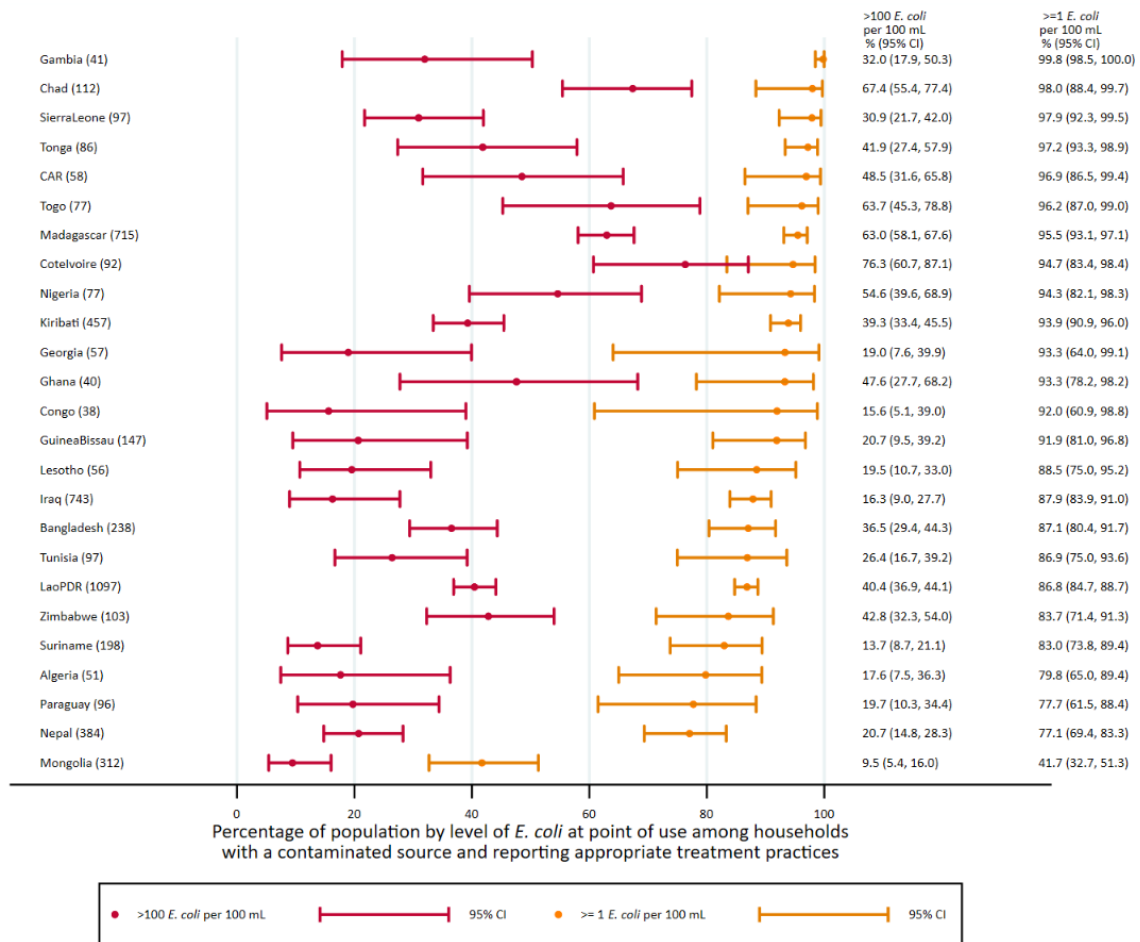


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Inconsistency checks

Table S1: Proportion of *E. coli* samples flagged as potentially inconsistent

Country	Point of collection				Point of use			
	Flag I ^a	Flag II ^b	Flag I or II	N	Flag I	Flag II	Flag I or II	N
Congo	2.4	0.7	2.4	1271	2.5	0.7	2.5	1485
Cote d'Ivoire	1.6	0.7	1.6	1767	1.8	0.8	2.0	1901
Nigeria	4.8	2.1	4.9	2718	4.0	1.3	4.1	3027
Paraguay	1.7	0.7	1.7	1745	2.1	0.4	2.1	1788
Total	2.6	1.1	2.7	7501	2.6	0.8	2.7	8201

^a100 mL test is below 10 *E. coli* and 1 mL has at least one colony

^b1 mL sample count greater than the 100 mL sample count provided both are non-zero and countable

Blanks tests results

Table S2: Proportion of blank tests with detectable *E. coli*

Country	Blank tests positive for <i>E. coli</i> (%)	Blank tests with ≥ 10 <i>E. coli</i> per 100 mL (%)	Blank tests for <i>E. coli</i> (N)
Algeria	0.3	0.1	1223
Bangladesh	1.0	0.3	627
CAR	1.1	0.5	373
Chad	3.6	1.9	695
Congo	2.5	0.0	240
Cote Ivoire	8.2	0.4	473
Gambia	6.2	1.1	373
Georgia	0.0	0.0	536
Ghana	1.6	0.3	638
Guinea Bissau	1.1	0.3	366
Iraq	0.4	0.1	1661
Kiribati	1.3	0.0	150
Lao PDR	2.1	1.2	1034
Lesotho	0.6	0.3	327
Madagascar	0.9	0.7	674
Mongolia	1.4	0.8	500
Nepal	2.4	0.4	508
Nigeria	1.2	0.4	1018
Palestine	1.5	0.6	344
Paraguay	0.0	0.0	371
STP	0.0	0.0	115
Sierra Leone	2.4	1.2	591
Suriname	1.1	0.0	272
Togo	2.1	0.3	380
Tonga	0.8	0.0	119
Tunisia	1.2	1.0	497
Zimbabwe	1.2	0.0	434
Total	1.6	0.5	14539

Main source versus source of sample

Table S3: Concordance between main water source and source of the sample of drinking water provided by survey respondents

Country	Sample from same class of source (%) ^a	N
Algeria	86.9 (85.0,88.5)	4,046
Bangladesh	99.9 (99.8,100.0)	12,236
Central African Republic	94.8 (92.2,96.6)	1,212
Chad	78.7 (75.7,81.5)	2,148
Congo	91.6 (88.6,93.8)	1,507
Cote d'Ivoire	91.4 (89.1,93.2)	1,903
Gambia	99.6 (99.1,99.8)	1,863
Georgia	92.6 (90.9,94.1)	2,691
Ghana	96.8 (94.9,98.1)	3,212
Guinea Bissau	99.1 (98.5,99.5)	1,825
Iraq	99.7 (99.5,99.8)	5,897
Kiribati	72.7 (67.7,77.2)	606
Lao PDR	99.0 (98.4,99.3)	3,345
Lesotho	98.8 (97.4,99.4)	1,366
Madagascar	92.5 (90.7,93.9)	3,433
Mongolia	83.9 (80.6,86.6)	2,724
Nepal	92.6 (91.0,94.0)	2,407
Nigeria	98.0 (97.0,98.6)	3,033
Palestine	92.1 (90.3,93.6)	1,827
Paraguay	99.3 (98.7,99.7)	1,766
Sao Tome and Principe	100.0 (100.0, 100.0)	569
Sierra Leone	93.6 (91.8,95.0)	1,773
Suriname	94.9 (93.0,96.4)	1,687
Togo	96.3 (94.2,97.7)	1,152
Tonga	84.0 (78.9,88.0)	610
Tunisia	98.9 (98.3,99.3)	2,756
Zimbabwe	86.6 (84.3,88.5)	2,121
Total	93.1 (92.7,93.5)	69,715

^aSample reported as from main source or from same category of water source (packaged, piped, boreholes/tubewells, rainwater, delivered water, unimproved) used in this study. Proportions calculated using point of collection water quality sample weights normalized for each country.

Table S4: Mean monthly precipitation above yearly mean precipitation

Country	Mean precipitation above yearly mean precipitation between 2000 and 2019 (mm per month)												Wet seasons
	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	
Algeria	2.5	1.1	1.4	0.3	-0.2	-4.7	-4.9	-1.8	-0.1	0.9	3.4	2.2	Oct-Apr
Bangladesh	-194.3	-184.1	-158.9	-46.0	25.6	197.2	359.8	235.0	117.5	9.2	-168.6	-192.4	May-Oct
CAR	-103.9	-96.4	-57.6	-18.3	29.8	50.1	95.1	117.3	104.3	57.8	-75.1	-103.2	May-Oct
Chad	-27.1	-25.9	-25.3	-20.8	-8.2	5.4	50.4	88.1	29.3	-11.6	-26.9	-27.2	June-Sept
Congo ^a	-26.9	-6.2	30.3	37.4	20.5	-65.8	-84.2	-65.1	-5.2	70.8	74.3	20.1	Mar-May, Oct-Dec
Gambia	-71.9	-71.7	-71.9	-71.8	-66.3	5.7	112.2	216.9	162.4	-1.3	-70.2	-72.0	June-Sept
Georgia	-11.4	-22.9	-2.2	3.5	30.1	38.0	5.7	-9.5	-1.8	2.0	-14.7	-16.8	Apr-July
Ghana	-88.8	-71.1	-33.5	7.4	41.7	68.4	55.2	49.2	75.2	38.1	-57.5	-84.1	April-Oct
Guinea-Bissau	-133.4	-133.4	-133.3	-132.4	-91.5	35.2	222.1	364.8	234.9	16.5	-116.4	-133.1	June-Oct
Iraq	15.4	11.8	13.0	11.5	-5.5	-14.9	-15.3	-15.4	-15.3	-6.7	6.3	15.1	Nov-Apr
Israel ^b	72.5	45.8	3.3	-14.4	-28.4	-32.0	-32.0	-32.0	-31.8	-14.7	9.5	54.1	Nov-Mar
Cote d'Ivoire	-99.7	-79.4	-37.6	9.5	52.1	89.8	38.4	41.9	76.2	42.6	-43.7	-90.1	Apr-Oct
Kiribati	86.6	31.8	17.2	8.4	-23.6	-28.6	10.7	-30.4	-43.4	-48.0	-35.7	54.9	Dec-Apr
Laos	-127.2	-135.0	-103.0	-60.7	31.4	89.4	149.4	187.8	96.2	8.3	-38.9	-97.7	May-Oct
Lesotho	67.5	37.5	27.4	-8.1	-36.8	-47.2	-54.3	-44.1	-30.3	-0.8	32.5	56.5	Nov-Mar
Madagascar	166.0	132.0	75.2	-26.2	-67.1	-70.2	-61.9	-76.7	-89.7	-66.3	-5.1	90.1	Dec-Mar
Mongolia	-16.7	-16.3	-13.4	-7.0	2.6	20.7	37.6	28.0	1.4	-9.2	-12.8	-15.0	May-Sept
Nepal	-86.8	-68.4	-63.8	-49.0	15.2	67.5	209.1	150.2	74.7	-59.9	-95.0	-93.8	May-Sept
Nigeria	-91.9	-86.6	-67.2	-34.7	19.6	71.0	105.3	133.9	112.1	10.3	-80.1	-91.6	May-Oct
Paraguay	35.6	35.0	4.7	17.4	2.9	-45.5	-49.7	-70.7	-41.3	29.5	48.4	33.7	Oct-May
STP ^a	-29.5	-42.3	14.6	20.9	45.4	-55.6	-106.9	-77.1	20.3	150.7	59.3	0.1	Mar-May, Sept-Dec
Sierra Leone	-202.1	-191.2	-172.3	-115.4	-0.4	90.0	230.4	382.4	207.5	70.4	-111.4	-187.9	June-Oct
Suriname	10.1	10.8	8.2	98.7	182.6	82.2	41.6	-44.6	-126.2	-135.9	-106.6	-20.9	Jan-July
Togo	-89.3	-78.9	-43.3	-9.7	34.8	67.4	70.6	77.6	98.8	28.2	-66.8	-89.5	May-Oct
Tonga	63.2	52.5	117.0	52.2	-38.6	-71.2	-62.0	-59.3	-28.3	-24.5	-5.0	4.0	Dec-Apr
Tunisia	12.9	7.8	6.9	0.8	-8.5	-19.6	-23.2	-17.8	1.4	14.7	8.8	15.8	Sept-Apr
Zimbabwe	101.7	69.3	36.2	-24.8	-50.2	-51.6	-53.7	-55.0	-51.2	-34.9	20.5	93.6	Nov-Mar

^aTwo distinct wet seasons.

^bPrecipitation data not available for Palestine.

CAR – Central African Republic; STP – Sao Tome and Principe

Source: Author's calculations based on Climatic Research Unit (University of East Anglia) and Met Office (Harris et al. 2020)

Main reasons point of collection sample not collected

Table S5: Main reasons point of collection sample not collected

Country	Point of collection not shown % (95% CI)	Number of households asked to show point of collection	Source not functional % (95% CI)	Source too far % (95% CI)	Unable to access source % (95% CI)	Do not know where source is located % (95% CI)	Other or missing % (95% CI)	Number of households where the point of collection was not shown
Algeria	22.5 (20.3,24.9)	4,076	16 (12.6,20.1)	35.9 (30.6,41.5)	34.1 (28.6,40.1)	5.2 (3.5,7.5)	8.8 (6.0,12.9)	839
Bangladesh	1.1 (0.8,1.4)	6,140	20.3 (11.0,34.6)	47 (32.7,61.8)	0	21 (10.1,38.7)	11.6 (4.6,26.3)	61
CAR	10.7 (8.4,13.4)	1,212	10.8 (6.0,18.8)	72.1 (61.2,81.0)	2.3 (0.6,8.5)	0.9 (0.2,3.7)	13.8 (7.3,24.6)	137
Chad	4.4 (2.7,7.0)	2,275	14.3 (4.7,36.5)	48.6 (26.5,71.1)	11.4 (4.9,24.4)	8.5 (3.9,17.4)	17.2 (6.7,37.4)	94
Congo	16.6 (12.9,21.1)	1,560	N/A	23.9 (14.9,36.1)	19.1 (11.5,30.0)	0	57 (43.3,69.7)	209
Cote d'Ivoire	3.7 (2.6,5.3)	1,918	N/A	31.8 (19.5,47.3)	15.8 (7.8,29.6)	0	52.3 (36.7,67.5)	103
Gambia	3.2 (2.0,4.9)	1,865	29.3 (13.6,52.3)	2.1 (0.3,14.2)	64.7 (43.3,81.4)	3.9 (1.5,9.6)	0	54
Georgia	9 (7.3,11.1)	2,699	47.3 (36.9,58.0)	23 (16.2,31.5)	16.4 (10.8,24.2)	2.2 (0.8,5.6)	11.1 (6.4,18.5)	227
Ghana	1.3 (0.7,2.4)	3,219	14 (4.9,34.0)	13 (5.1,29.4)	35.5 (13.1,66.7)	36.9 (18.6,59.9)	0.7 (0.1,5.0)	46
Guinea Bissau	2.2 (1.3,3.7)	1,828	23.6 (8.6,50.1)	63.4 (38.1,83.0)	3.9 (0.9,15.2)	0	9.1 (1.3,43.6)	21
Iraq	0.1 (0.0,0.2)	6,724	30.6 (11.2,60.8)	21.2 (4.2,62.5)	19.7 (2.5,70.5)	0	28.4 (3.9,79.5)	6
Kiribati	8.1 (4.4,14.6)	622	89.3 (69.7,96.8)	3.9 (0.5,24.0)	6.8 (1.7,24.0)	0	0	29
Lao PDR	1.1 (0.6,1.8)	3,346	6.5 (1.4,26.0)	74.7 (54.3,88.0)	6.1 (1.5,21.7)	0	12.6 (4.1,32.7)	35
Lesotho	1.5 (0.8,2.8)	1,373	45 (18.3,74.9)	4.3 (0.9,17.4)	6.3 (0.8,35.3)	0	44.4 (17.1,75.6)	15
Madagascar	3.5 (2.4,4.9)	3,433	7.2 (3.1,15.8)	66.7 (46.7,82.1)	23.8 (10.0,46.9)	1.6 (0.2,10.5)	0.6 (0.1,4.4)	105
Mongolia	2.9 (1.6,5.0)	2,736	55.4 (29.9,78.3)	36 (17.3,60.3)	2 (0.7,5.7)	4.6 (1.4,13.8)	2 (0.5,7.5)	75
Nepal	2.4 (1.7,3.4)	2,546	33.9 (20.0,51.3)	55.4 (38.4,71.2)	1.7 (0.4,6.1)	2.8 (0.6,13.2)	6.2 (1.4,23.1)	73
Nigeria	7.3 (5.8,9.1)	3,053	15.3 (9.0,24.7)	18.3 (12.1,26.7)	18.3 (10.6,29.5)	14.3 (7.4,25.8)	33.9 (22.2,48.0)	311
Palestine	1.4 (0.8,2.5)	1,848	31.9 (13.5,58.5)	4.3 (0.6,26.1)	41.7 (16.5,72.1)	0.7 (0.1,5.1)	21.4 (7.2,49.0)	22
Paraguay	2.2 (1.4,3.5)	1,765	36.2 (17.6,60.1)	18.8 (7.6,39.5)	38.6 (19.8,61.6)	0	6.4 (1.6,21.6)	37
STP	8.3 (4.9,13.9)	571	10.2 (2.7,31.9)	76.4 (56.5,89.0)	3.4 (0.5,21.3)	1.2 (0.2,8.3)	8.9 (2.7,25.8)	44
Sierra Leone	1.1 (0.6,1.9)	1,780	8.2 (2.4,25.0)	0	23.3 (6.5,56.8)	4.4 (0.6,26.4)	64.1 (34.2,86.0)	21
Suriname	5.9 (4.4,7.9)	1,701	17 (8.5,31.1)	5.9 (2.1,15.5)	67.5 (52.5,79.6)	2.6 (0.7,9.3)	7 (2.3,19.1)	82
Togo	3.9 (2.5,6.2)	1,153	15.1 (5.5,35.3)	15.6 (6.1,34.6)	23 (7.3,53.2)	19.8 (9.6,36.6)	26.4 (11.9,48.9)	45
Tonga	13.4 (9.0,19.5)	613	15.2 (6.8,30.8)	66.9 (47.5,81.9)	15.8 (6.3,34.7)	2 (0.6,6.7)	0	67
Tunisia	2.9 (2.1,4.0)	2,769	19.4 (10.3,33.4)	31.4 (21.2,43.8)	20.2 (11.7,32.7)	14.4 (7.2,26.6)	14.6 (7.7,26.0)	77
Zimbabwe	1.6 (1.1,2.6)	2,124	62 (41.8,78.8)	9.8 (2.9,28.0)	13.2 (4.5,33.2)	2.1 (0.3,13.9)	12.8 (4.6,30.8)	35
Total	5.3 (4.8,5.7)	64,949	21.6 (18.0,25.7)	36.8 (32.8,40.9)	20.4 (17.7,23.5)	4.1 (3.2,5.1)	17.2 (14.4,20.3)	2870

NA – response “source not functional” not included in Congo or Cote d'Ivoire. Proportions calculated using point of collection water quality sample weights normalized for each country. CAR – Central African Republic; STP – Sao Tome and Principe.

Main reasons drinking water unavailable

Table S6: Main reasons drinking water unavailable

Country	Water not available during last month % (95% CI)	Number of households reporting on availability of drinking water in the last month	Water not available from source % (95% CI)	Water too expensive % (95% CI)	Source not accessible % (95% CI)	Other % (95% CI)	Don't Know % (95% CI)	Number of households without water available in the last month
Algeria	26.7 (25.1,28.4)	29,882	74.7 (71.4,77.8)	4.3 (2.9,6.4)	9.4 (8.0,11.0)	5 (3.7,6.6)	6.6 (5.4,8.1)	7,323
Bangladesh	3.0 (2.8,3.3)	61,230	71.1 (68.2,73.8)	4.3 (3.5,5.4)	17.2 (14.9,19.8)	6.6 (5.5,8.0)	0.8 (0.4,1.5)	2,023
CAR	39.0 (36.6,41.5)	8,131	72.7 (69.8,75.4)	4.2 (3.2,5.4)	17 (14.9,19.4)	6 (4.8,7.4)	0.1 (0.1,0.3)	3,132
Chad	22.7 (21.1,24.4)	18,964	58.9 (55.6,62.1)	15.2 (13.0,17.8)	17 (14.8,19.4)	8.6 (7.0,10.7)	0.2 (0.1,0.5)	4,306
Gambia	12.4 (10.8,14.1)	7,402	84.4 (80.1,87.9)	0.4 (0.1,1.0)	8.1 (5.8,11.2)	5.1 (3.3,7.8)	2.0 (0.8,5.0)	1,082
Georgia	22.2 (20.2,24.3)	12,240	80.1 (77.1,82.7)	0.1 (0.0,0.2)	6.7 (5.3,8.4)	4.5 (3.2,6.1)	8.7 (6.8,11.1)	2,454
Ghana	11.6 (10.2,13.1)	12,885	66.2 (59.1,72.6)	2.1 (1.2,3.4)	17.7 (14.3,21.7)	10.0 (5.1,18.6)	4.0 (2.6,6.1)	1,352
Guinea Bissau	15.7 (13.1,18.7)	7,379	85.9 (80.6,89.9)	3.4 (1.8,6.1)	8.3 (4.9,13.8)	2.3 (1.3,4.0)	0.1 (0.0,0.8)	814
Iraq	22.3 (20.4,24.3)	20,190	90.2 (88.2,91.9)	2.0 (1.4,2.9)	5.6 (4.3,7.2)	1.3 (0.9,1.9)	0.9 (0.5,1.4)	4,922
Kiribati	31.8 (28.0,35.8)	3,070	57.9 (52.1,63.4)	0.3 (0.1,1.7)	21.3 (17.2,26.0)	20.5 (16.2,25.6)	0.0 (0.0,0.0)	735
Lao PDR	3.6 (3.0,4.2)	22,282	68.7 (62.9,73.9)	0.9 (0.4,2.0)	6.2 (4.4,8.6)	21.8 (17.5,26.8)	2.4 (1.6,3.7)	1,033
Lesotho	16.1 (14.5,17.9)	8,844	81.1 (77.6,84.1)	1.8 (1.1,3.0)	5.5 (4.0,7.6)	9.7 (7.6,12.3)	1.9 (1.0,3.5)	1,290
Madagascar	11.4 (10.2,12.6)	17,866	74.0 (70.1,77.6)	1.9 (1.0,3.5)	10.4 (8.0,13.3)	12.6 (10.0,15.7)	1.1 (0.6,2.0)	2,003
Mongolia	14.1 (12.0,16.6)	13,793	57.7 (50.1,64.9)	0.2 (0.1,1.0)	5.9 (3.5,9.8)	33.2 (26.4,40.8)	2.9 (1.8,4.9)	1,137
Nepal	19.6 (17.6,21.7)	12,654	68.8 (63.9,73.3)	6.0 (3.6,9.8)	14.5 (12.1,17.4)	9.5 (6.4,13.7)	1.2 (0.7,2.0)	2,770
Palestine	10.8 (9.6,12.1)	9,319	67.9 (62.6,72.8)	7.9 (5.3,11.5)	10.3 (7.6,13.8)	7.5 (5.3,10.7)	6.3 (4.3,9.2)	1,147
Paraguay	16.8 (14.8,18.9)	7,313	75.9 (71.0,80.2)	0.1 (0.0,0.5)	4.6 (3.0,7.1)	13.4 (10.7,16.5)	5.9 (4.1,8.5)	1,242
STP	29.9 (26.7,33.4)	3,426	92.5 (89.3,94.8)	0.1 (0.0,0.7)	4.2 (2.5,6.9)	3.0 (1.9,4.8)	0.2 (0.1,0.6)	938
Sierra Leone	28.4 (26.6,30.2)	15,306	88.0 (85.9,89.8)	2.2 (1.5,3.3)	6.6 (5.3,8.3)	2.9 (2.1,4.0)	0.3 (0.1,0.6)	3,964
Suriname	16.3 (14.6,18.2)	7,904	62.2 (57.6,66.5)	0.9 (0.5,1.7)	9.3 (6.0,14.1)	17.5 (14.4,21.0)	10.1 (7.7,13.1)	1,190
Togo	15.8 (13.9,17.9)	7,916	75.4 (69.7,80.3)	1.7 (0.8,3.8)	11.6 (8.8,15.1)	11.3 (7.8,15.9)	0.1 (0.0,0.4)	1,164
Tonga	8.9 (7.4,10.6)	2,498	72.8 (65.8,78.8)	5.5 (2.5,11.7)	12.5 (8.5,17.9)	9.2 (5.1,15.9)	0.0 (0.0,0.0)	237

Tunisia	18.8 (17.1,20.5)	11,223	77.1 (73.7,80.1)	0.0 (0.0,0.0)	6.8 (5.4,8.6)	6.4 (5.0,8.2)	9.7 (7.8,12.1)	2,053
Zimbabwe	19.8 (18.2,21.6)	11,091	83.4 (80.1,86.2)	0.6 (0.3,1.1)	5.6 (4.3,7.3)	10.3 (8.2,12.9)	0.1 (0.0,0.3)	2,408
Total	18.2 (17.8,18.7)	332,808	75.3 (74.3,76.2)	2.8 (2.5,3.1)	10.3 (9.7,11.0)	9.0 (8.4,9.7)	2.6 (2.3,2.8)	50,719

Households were asked whether sufficient quantities of water were available from the main source during the last month. Data not available for Congo, Cote d'Ivoire and Nigeria. Proportions calculated using normalized sample weights for household reporting on drinking water availability within each country.

CAR – Central African Republic; STP – Sao Tome and Principe