WASH data (JMP and beyond)

WASH in Households in odd years



WASH in Schools and Health Care Facilities in even years



Global Task Force on Cholera Control (GTFCC) Monday 20 March 2023 Rick Johnston (johnstonr@who.int)



washdata.org









Definitions matter (at least for indicators)

	SDG target	Target text	Global indicators					
1 [№] ₽9чектя 1 ***** **	1.4 Basic services	By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services , ownership and control over land and other forms of property,	Proportion of population living in households with access to basic services					
10 # TT TT (P)0		inheritance, natural resources, appropriate new technology and financial services, including microfinance	[includes basic drinking water, sanitation and hygiene]					
	3.8 Universal health coverage	Achieve universal health coverage , including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all	Coverage of essential health services [includes basic sanitation]					
	3.9 Burden of disease	By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination	Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)					
6 CLEAN WATER AND SANITATION	6.1 Drinking water	By 2030, achieve universal and equitable access to safe and affordable drinking water for all	Proportion of population using safely managed drinking water services					
	6.2 Sanitation and hygiene	By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations	Proportion of population using safely managed sanitation services Proportion of population with access to handwashing facilities with soap and water in the home					







Global indicators

- JMP mandate
 - Global monitoring
 - Representativeness
 - Comparability, harmonization
- Service ladders
 - Drinking water (5 levels)
 - Sanitation (5 levels)
 - Hygiene (3 levels)

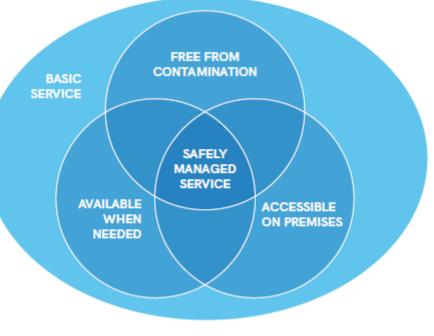
- Health care facilities
 - Water, sanitation, hygiene(3 levels)
 - Waste management
 - Environmental cleaning
- Schools
 - Water, sanitation, hygiene(3 levels)







SERVICE LEVEL	DEFINITION
SAFELY MANAGED	Drinking water from an improved water source that is located on premises, available when needed and free from faecal and priority chemical contamination
BASIC	Drinking water from an improved source, provided collection time is not more than 30 minutes for a round trip, including queuing
LIMITED	Drinking water from an improved source for which collection time exceeds 30 minutes for a round trip, including queuing
UNIMPROVED	Drinking water from an unprotected dug well or unprotected spring
SURFACE WATER	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal
Note: Improved sou	rces include: piped water, boreholes or tubewells,



protected dug wells, protected springs, rainwater, and packaged or delivered water.







SERVICE LEVEL	DEFINITION	
SAFELY MANAGED	Use of improved facilities that are not shared with other households and where excreta are safely disposed of in situ or transported and treated offsite	
BASIC	Use of improved facilities that are not shared with other households	BASIC WASTEWATER TREATED SERVICE OFF-SITE
LIMITED	Use of improved facilities that are not shared with other households	SAFELY MANAGED SERVICE EXCRETA
UNIMPROVED	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines	EXCRETA EACRETA EMPTIED AND AND TREATED DISPOSED OFF-SITE OF IN SITU
OPEN DEFECATION	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches or other open paces, or with solid waste	
	ities include flush/pour flush to piped sewer systems, trines; ventilated improved pit latrines, composting	

toilets or pit latrines with slabs.







SERVICE LEVEL	DEFINITION
BASIC	Availability of a handwashing facility on premises with soap and water
LIMITED	Availability of a handwashing facility on premises without soap and water
NO FACILITY	No handwashing facility on premises

Note: Handwashing facilities may be fixed or mobile and include a sink with tap water, buckets with taps, tippy-taps, and jugs or basins designated for handwashing. Soap includes bar soap, liquid soap, powder detergent, and soapy water but does not include ash, soil, sand or other handwashing agents.

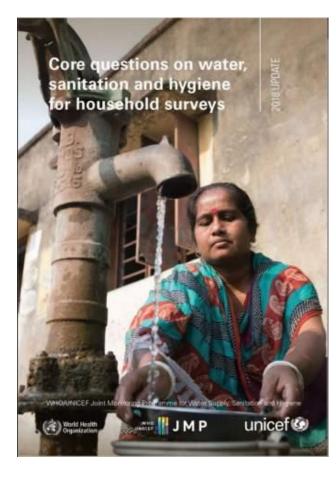


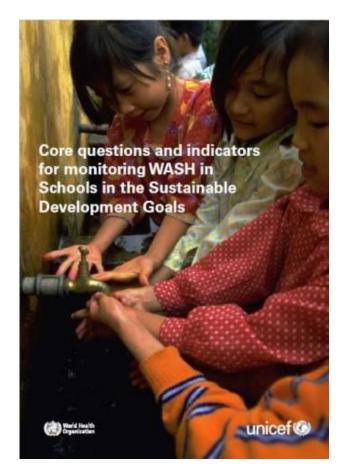






Core questions and indicators







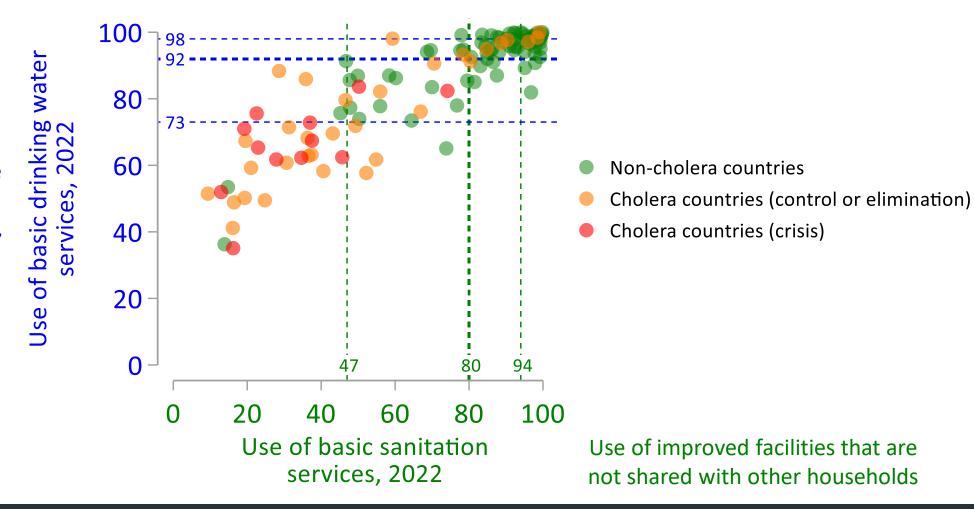






Basic water, sanitation coverage among 136 LMICS

Drinking water from an improved source, provided collection time is not more than 30 minutes for a round trip, including queuing







Drinking water quality in household surveys

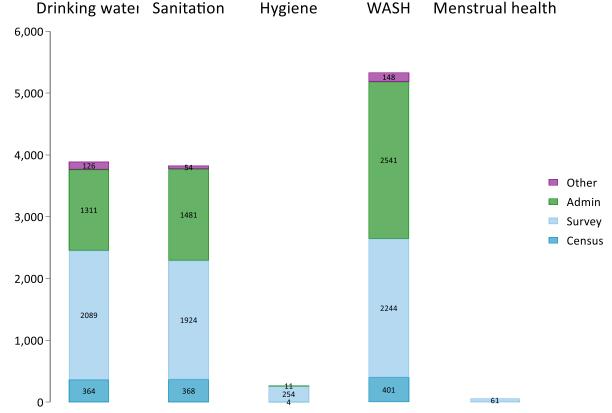
2012-2015	2016-17	2018	2019	2020	2021	2022	2023
2012-13 Bangladesh MICS Ghana LSS 2014-15 Congo MICS Nepal MICS (Pakistan MICS) (Belize MICS6 Pilot)	DPRK MICS Ecuador ENEDMU Ethiopia ESS Lao PDR SIS Lebanon National	DRC MICS Gambia MICS Georgia MICS Ghana MICS Iraq MICS Kiribati MICS Lesotho MICS Madagascar MICS Mongolia MICS Suriname MICS Tunisia MICS	Algeria MICS Bangladesh MICS CAR MICS Chad MICS Dominican Republic MICS Guinea-Bissau MICS Honduras MICS Nepal MICS Nigeria NORM Sao Tome and Principe MICS Tonga MICS Zimbabwe MICS	Côte d'Ivoire DHS Guyana MICS Indonesia SKAM-RT Kosovo MICS Malawi MICS Samoa MICS State of Palestine MICS Turks and Caicos MICS Tuvalu MICS	Benin MICS Eswatini MICS Fiji MICS Mozambique DHS Nigeria NORM Sri Lanka HIES Tanzania NPS Viet Nam MICS	Ecuador ENEMDU Trinidad and Tobago MICS	Afghanistan MICS Argentina MICS Azerbaijan MICS Belize MICS Burkina Faso NORM Ethiopia DHS FSM MICS Guatemala DHS Laos SIS Lebanon MICS Nauru MICS Nicaragua MICS Somalia MICS Sudan MICS Tunisia MICS Tunisia MICS Uganda DHS Vanuatu MICS

WHO UNICEF ΜΡ



Global database

- Household surveys
 - Maybe one every 2-3 years, takes a long time for data to be published
 - Moderate resolution
- Censuses
 - Usually every 10 years, takes a long time for data to be published
 - Limited WASH variables
 - High resolution
- Administrative data



Number of data sources used in JMP 2023 report







Disaggregations

- Urban/Rural
- Wealth quintiles
- Sub-national regions
 - IHME 5x5 km grids
 - DHS exploratory analysis
 - JMP inequalities files: roughly admin1





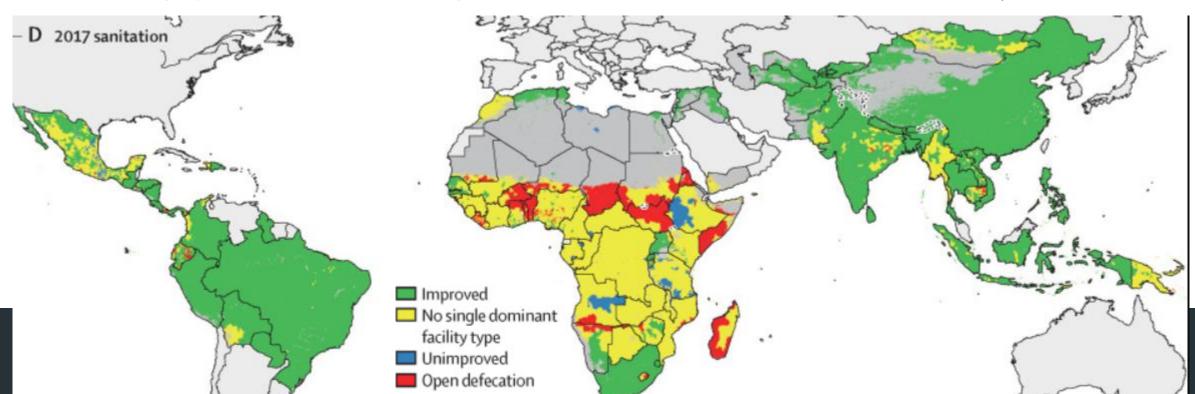


Mapping geographical inequalities in access to drinking water and sanitation facilities in low-income and middle-income countries, 2000–17

Local Burden of Disease WaSH Collaborators*

Summary

Background Universal access to safe drinking water and sanitation facilities is an essential human right, recognised in the Sustainable Development Goals as crucial for preventing disease and improving human wellbeing. Comprehensive, high-resolution estimates are important to inform progress towards achieving this goal. We aimed to produce high-resolution geospatial estimates of access to drinking water and sanitation facilities.





of the Article

Lancet Glob Health 2020; 8: e1162-85 *Collaborators listed at the end

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SPATIAL MODELING FOR SUBNATIONAL ADMINISTRATIVE LEVEL 2 SMALL-AREA ESTIMATION DHS SPATIAL ANALYSIS REPORTS 21



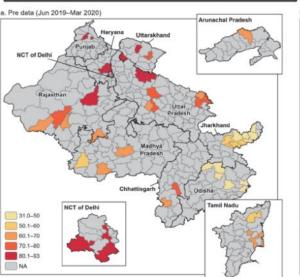




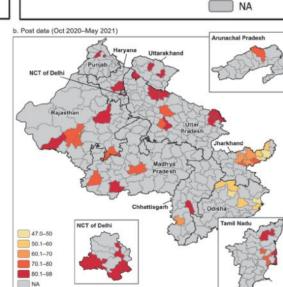
MODELING COVID-19 RELATED INDICATORS AT THE SECOND SUBNATIONAL ADMINISTRATIVE LEVEL

DHS SPATIAL ANALYSIS REPORTS 22





a. Pre data (Nov 2019-Mar 2020)



10.0-20.0

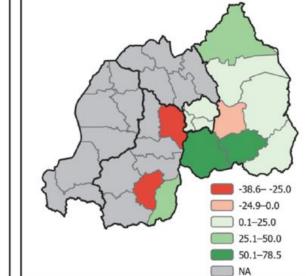
20.1-30.0

30.1-40.0

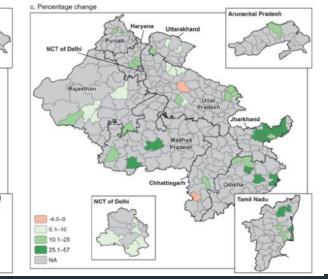
40.1-49.6

Percentage of households with basic handwashing facility, including soap and water

b. Post data (Jun 2020–Jul 2020)



c. Percentage change





8.1-20.0

20.1-30.0

30.1-40.0

40.1-46.1

NA



This publication was produced for review by the United States Agency for International Develo as Reen E. Develop: Martin Medica, Realing Interchy, Reviewin K. March, and Tennes M. Caste

SEPTEMBER 2022

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JMP

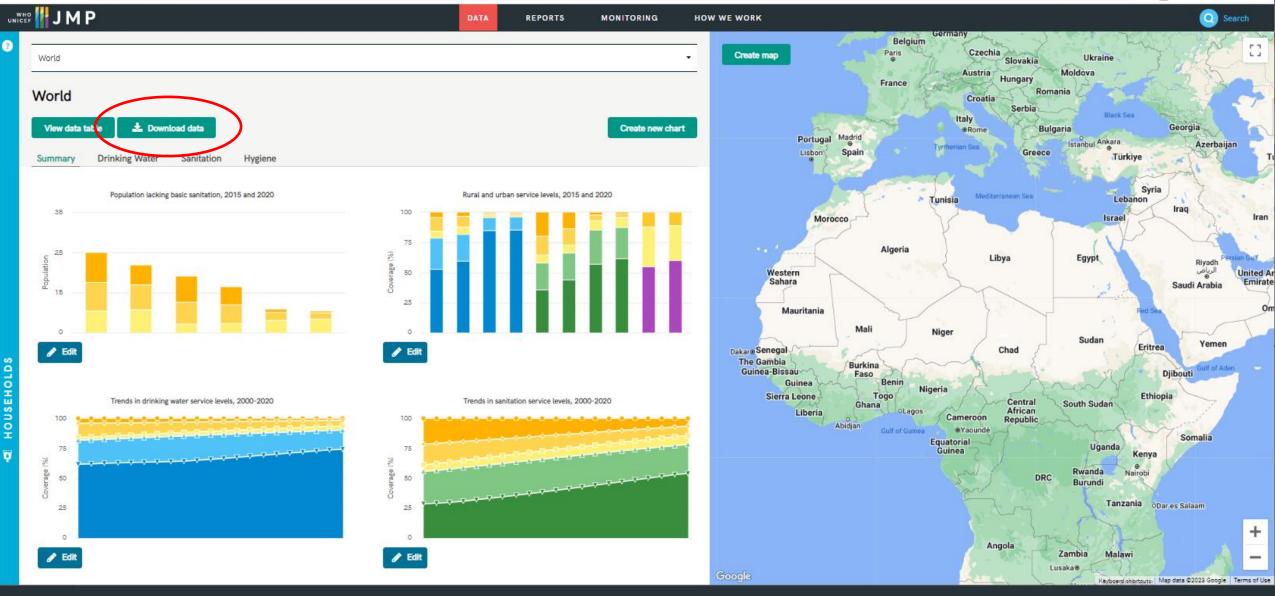
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	[+] Latin America and the Caribbean (48)									
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	Benin		<u>Country file</u> Inequalities	Country file	<u>Country file</u>					
	Botswana		<u>Country file</u>	Country file						
	Burkina Faso		<u>Country file</u> <u>Inequalities</u>	<u>Country file</u>	<u>Country file</u>					Ŧ
World Health							~f	10 ¹⁰	1	









Joint Monitoring Programme for Water Supply, Sanitation and Hygiene

Estimates on household water, sanitation and hygiene by wealth quintile and sub-national region in

Uganda

Updated April 2021

Follow the links below to find the following information:

JMP Estimates

WASH status and trends by wealth quintile (customized quintiles made without water and sanitation assets)

> Water Sanitation Hygiene

Data inputs customized wealth quintiles and subnational data: DHS01

DHS06 MIS09 AIS11 DHS11 MIS15 DHS16 MIS19

Hygiene

DHS01

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Sanitation

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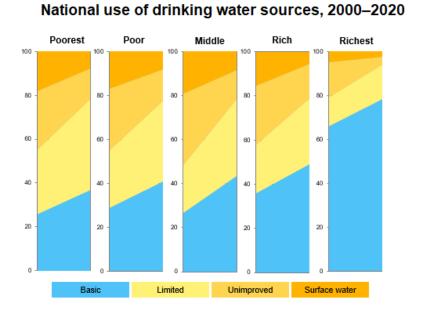
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Introduction

Water

Summary of trends in use of drinking water by wealth quintile (%) Uganda

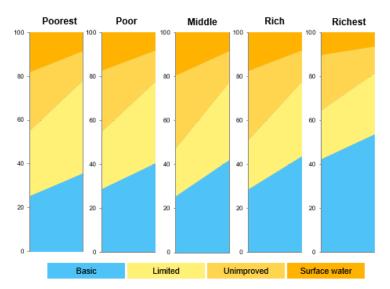
Urban use of drinking water sources, 2000–2020



Go to URBAN data

Poorest Poor Middle Rich Richest 100 100 80 80 -80 80 80 60 -60 60 60 60 40 -40 40 40 -40 20 20 20 -20 20 Surface water Basic Limited Unimproved

Rural use of drinking water sources, 2000–2020



	_			Po	orest			P	oor			Mi	ddle			R	lich			Ric	:hest	
Uganda			Basic	Limited	Unimproved	Surface water																
NATIONAL	Estimate	2000	25.8	29.3	26.7	18.2	28.9	25.8	28.3	17.0	26.8	21.6	32.4	19.1	36.0	22.0	26.6	15.3	65.9	13.3	16.0	4.8
NATIONAL	LStimate	2020	36.6	41.6	14.0	7.7	41.0	36.5	14.3	8.2	43.5	35.0	13.2	8.3	49.0	30.0	15.4	5.6	78.2	15.8	3.7	2.2
URBAN	Estimate	2000	58.3	29.8	4.4	7.4	71.8	20.2	5.2	2.9	80.1	11.9	5.9	2.1	87.2	6.6	5.3	0.9	91.5	3.8	4.7	0.0
UNDAN	Loundle	2020	51.1	26.2	18.9	3.8	65.4	18.4	12.8	3.4	82.1	12.2	4.0	1.7	90.1	6.8	2.8	0.3	95.9	4.0	0.0	0.1
RURAL	Estimate	2000	25.2	29.9	26.8	18.1	28.5	26.3	27.8	17.4	25.7	21.8	33.2	19.4	28.7	22.5	31.3	17.5	42.4	22.0	25.3	10.3
KUKAL	Esumate	2020	35.7	42.2	13.7	8.4	40.4	37.2	14.3	8.1	41.9	35.6	14.1	8.5	43.6	34.1	14.1	8.1	53.7	27.9	12.4	6.1







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109	2019					12						18					12			
110	Use of sanitation fa	cilities				80% -	47					_			62	34				
	by wealth quintile a		nal red	lion		49		67	54	86	61		69		62			69	48	
	Notes:		narrog			60% -						66 77		82		26	70			
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116						21		83	30	23	81	82 21	27	8	36		6	34	29	
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118						adholi	ankole	bugisu	bukedi	bunyoro	busoga ka	ampala karamoja	i kigezi	lango	north buganda	south buganda	teso	tooro	west nile	
119								Basic			Limited		- Unimpr	oved		Open de	fecation			
	Use of sanitation facilities				SUB-REGIONS:															
	Weighted percentage (used in graphs))			acholi	ankole	bugisu	bukedi	bunyoro	busoga	kampala	karamoja	kigezi	lango	north buganda	a south buganda	teso	toor	0 1	west
122	Sanitation	Improved			38.3	53.0	42.9	42.1	32.2	37.3	86.6	2.1	31.1	14.8	47.9	65.7	18.6	39.		46.
123		Not Improved			61.7	47.0	57.1	57.9	67.8	62.7	13.4	97.9	68.9	85.2	52.1	34.3	81.4	60.		53.
124		Basic			21.3	41.7	33.0	29.9	22.9	30.6	31.6	0.7	26.7	8.8	35.8	40.8	13.4	34.		29.
125	Sanitation ladder	Limited			17.0	11.3	9.9	12.2	9.2	6.7	55.1	1.4	4.4	6.0	12.0	24.8	5.2	5.5		17.
120		Unimproved			49.4 12.3	46.5 0.5	56.7 0.4	54.1 3.8	66.2 1.6	60.7 2.0	13.2	21.2 76.7	68.6 0.3	81.8 3.4	52.0 0.1	33.8	69.9 11.5	59.		45.9
127	Charad among improved popilation	Open defecation Yes			44.3	21.4	23.1	29.0	28.7	18.0	0.1 63.5	67.1	14.2	40.7	25.2	37.8	27.8	1.0		37.5
128	Shared among improved sanitation facilities	No			55.7	78.6	76.9	71.0	71.3	82.0	36.5	32.9	85.8	59.3	74.8	62.2	72.2	86.		62.
135		Sewer connection			0.2	0.0	1.6	0.5	0.0	1.0	0.6	0.0	0.0	0.0	0.0	0.1	0.5	0.0		0.1
135		Septic tank connectio	n		0.7	0.0	0.4	0.4	0.0	0.1	17.5	0.0	1.0	2.3	0.1	6.6	1.6	0.0		0.2
	Sanitation type	Improved latrines			37.4	53.0	40.9	41.2	32.2	36.1	68.5	2.1	30.1	12.5	47.8	58.9	16.5	39.		46.1
138		Unimproved facilities			49.4	46.5	56.7	54.1	66.2	60.7	13.2	21.2	68.6	81.8	52.0	33.8	69.9	59.	4	45.5
139		Open defecation			12.3	0.5	0.4	3.8	1.6	2.0	0.1	76.7	0.3	3.4	0.1	0.6	11.5	1.0)	7.6
148	Shared among improved papitation	Yes			17.0	11.3	9.9	12.2	9.2	6.7	55.1	1.4	4.4	6.0	12.0	24.8	5.2	5.5	i	17.4
149	Shared among improved sanitation facilities	No			21.3	41.7	33.0	29.9	22.9	30.6	31.6	0.7	26.7	8.8	35.8	40.8	13.4	34.		29.1
150		DK/missing			61.7	47.0	57.1	57.9	67.8	62.7	13.4	97.9	68.9	85.2	52.1	34.3	81.4	60.		53.
151	Shared among all sanitation facilities	Yes			42.6	19.5	21.9	26.6	26.7	18.1	64.1	38.6	10.9	29.5	18.5	31.6	25.3	13.		44.:
102		No			57.4	80.5	78.1	73.4	73.3	81.9	35.9	61.4	89.1	70.5	81.5	68.4	74.7	86.		55.8
153		flush to piped sewer	system		0.2	0.0	1.6	0.5	0.0	1.0	0.6	0.0	0.0	0.0	0.0	0.1	0.5	0.0		0.1
154		flush to septic tank	0.7	0.0	0.4	0.4	0.0	0.1	17.5	0.0	1.0	2.3	0.1	6.6	1.6	0.0		0.2		
155		flush to pit latrine			0.1	0.3	0.7	0.1	0.0	2.4	3.6	0.0	0.0	0.2	0.0	0.1	0.0	0.0		0.1
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Other data

- DRR
 - REACH/MSNA
 - HeRAMS
 - Water Severity
 Classification

- INGO/civil society
 - mWater
 - AKVO
 - Citizen science,
 crowdsourcing...

- Administrative
 - Infrastructure inventories
 - Disease
 surveillance

https://www.reachresourcecentre.info/ theme/multi-sector-assessments/

https://www.who.int/initiatives/herams







Thank you!