

WHO/UNICEF JMP global monitoring of drinking water, sanitation and hygiene

WASH in Households in odd years



WASH in Schools and Health Care Facilities in even years



EPFL, 19 October 2023


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washdata.org

Schedule

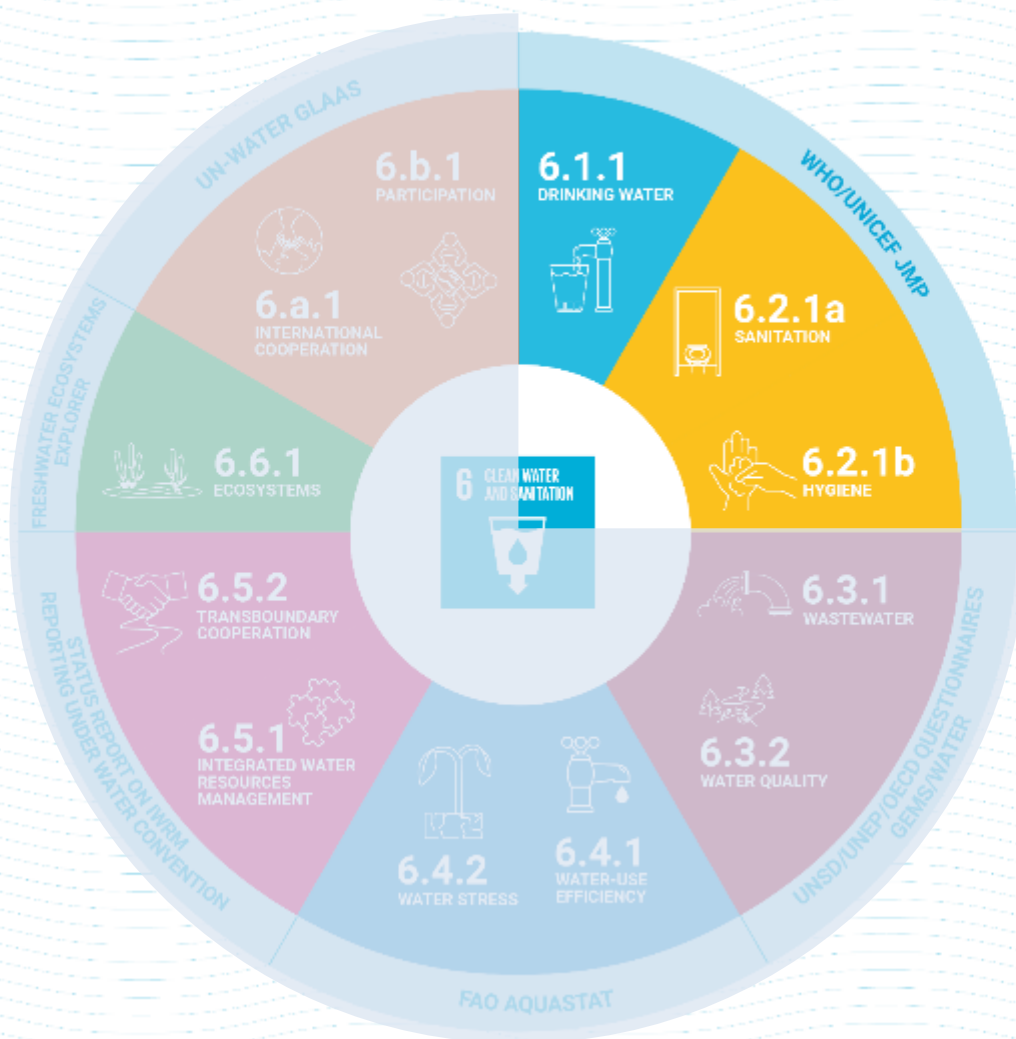
- 10:15 Introduction
- 10:20 – 10:50 Drinking water quality
 - Exercise: JMP Country files
- 10:50 – 11:20 Sanitation
 - Exercise: JMP Website
- 11:20 – 11:50 Hygiene, menstrual health
 - Exercise: JMP Inequalities files

Global SDG targets and indicators related to WASH

| | SDG global targets | SDG global indicators |
|--|---|---|
|  | 6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all | 6.1.1 Proportion of population using safely managed drinking water services |
| | 6.2 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 | 6.2.1 Proportion of population using (a) safely managed sanitation services and (b) a hand-washing facility with soap and water Additional indicator for SDG 6.2: Proportion of population practising open defecation |
|  | 1.4 By 2030, ensure all men and women , in particular the poor and vulnerable, have equal rights to economic resources as well as access to basic services... | 1.4.1 Proportion of population living in households with access to basic services (including access to basic drinking water, basic sanitation and basic handwashing facilities) |
|  | 4.a Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments for all | 4.a.1 Proportion of schools with access to.... (e) basic drinking water , (f) single-sex basic sanitation facilities , and (g) basic handwashing facilities |
|  | 3.8 Achieve universal health coverage (UHC), 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 | [Proportion of health care facilities with basic WASH services] |



UN Water Integrated Monitoring Initiative for SDG 6

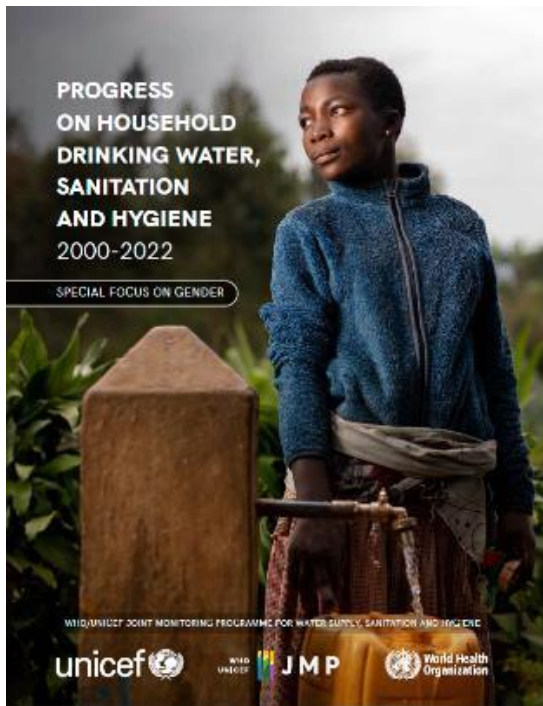


| INDICATORS | CUSTODIANS |
|--|-----------------------|
| 6.1.1 Proportion of population using safely managed drinking water services | WHO, UNICEF |
| 6.2.1 Proportion of population using (a) safely managed sanitation services and (b) a hand-washing facility with soap and water | WHO, UNICEF |
| 6.3.1 Proportion of domestic and industrial wastewater flows safely treated | WHO, UN-Habitat, UNSD |
| 6.3.2 Proportion of bodies of water with good ambient water quality | UNEP |
| 6.4.1 Change in water-use efficiency over time | FAO |
| 6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources | FAO |
| 6.5.1 Degree of integrated water resources management | UNEP |
| 6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation | UNECE, UNESCO |
| 6.6.1 Change in the extent of water-related ecosystems over time | UNEP, Ramsar |
| 6.a.1 Amount of water- and sanitation-related official development assistance that is part of a government-coordinated spending plan | WHO, OECD |
| 6.b.1 Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management | WHO, OECD |

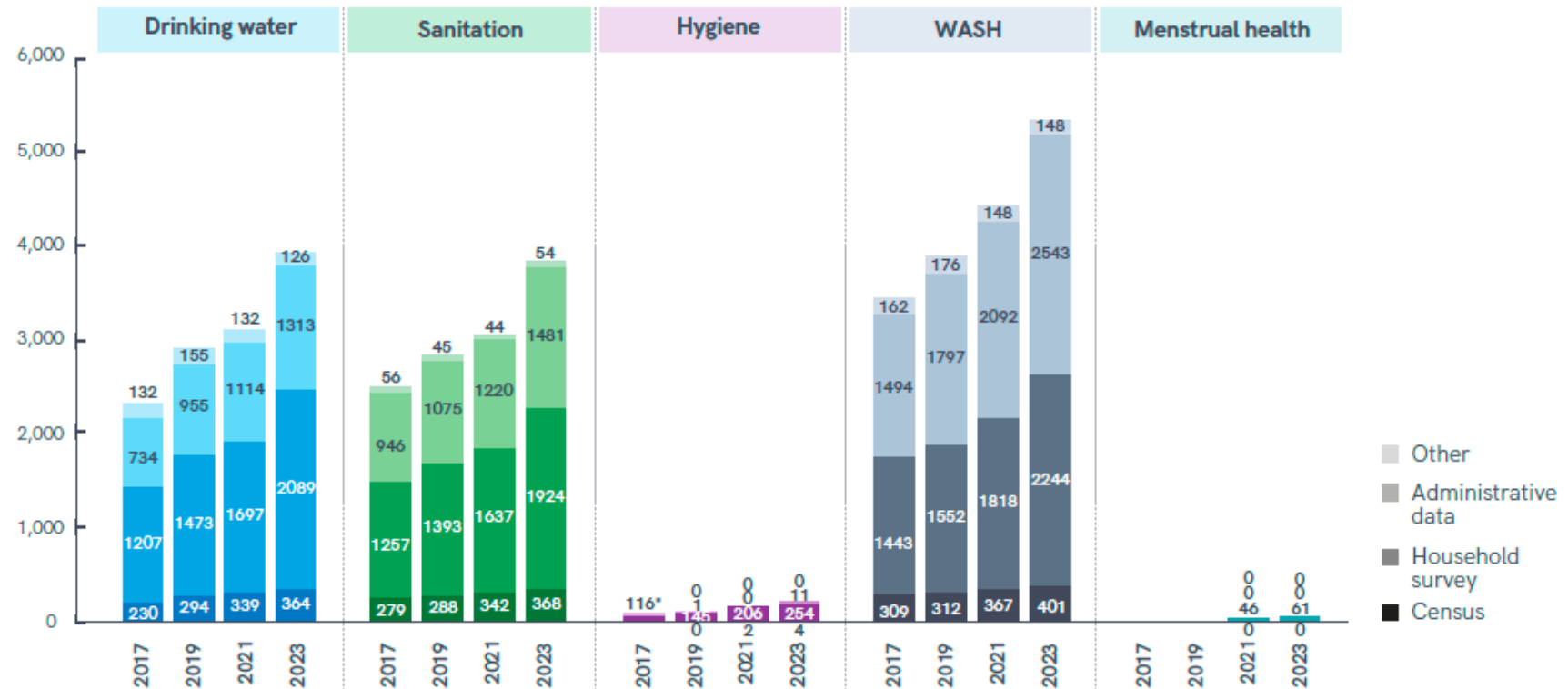
Joint Monitoring Programme (JMP)

- WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP)
 - Established 1990
 - Global monitoring of water, sanitation and hygiene targets
- Progress reports every 2 years
- Also WASH in schools, health care facilities

JMP 2023 progress update: special focus on gender



Data sources used for the JMP 2023 progress update



<https://washdata.org/reports/jmp-2023-wash-households>



Data

The WHO/UNICEF Joint Monitoring Programme (JMP) is the custodian of global data on Water Supply, Sanitation and Hygiene (WASH).



Households

The WHO/UNICEF JMP global database includes estimates of progress in household drinking water, sanitation and hygiene since 2000.

- [INTRODUCTION](#)
- [EXPLORE THE DATA](#)



Schools

In 2018 the WHO/UNICEF JMP established a new global database on drinking water, sanitation and hygiene in schools.

- [INTRODUCTION](#)
- [EXPLORE THE DATA](#)



Health Care Facilities

In 2019 the WHO/UNICEF JMP established a new global database on water, sanitation, hand hygiene, waste management, and environmental cleaning in health care facilities.

- [INTRODUCTION](#)
- [EXPLORE THE DATA](#)

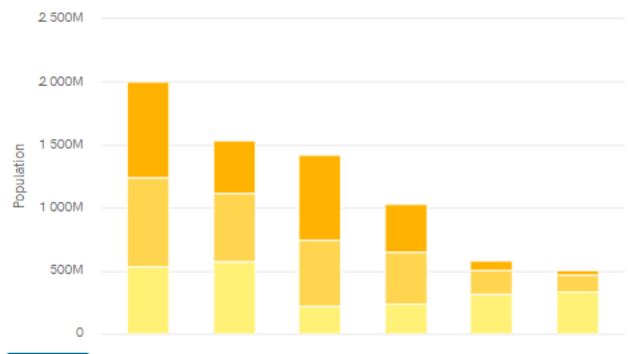
World

World

[View data table](#) [Download data](#) [Create new chart](#)

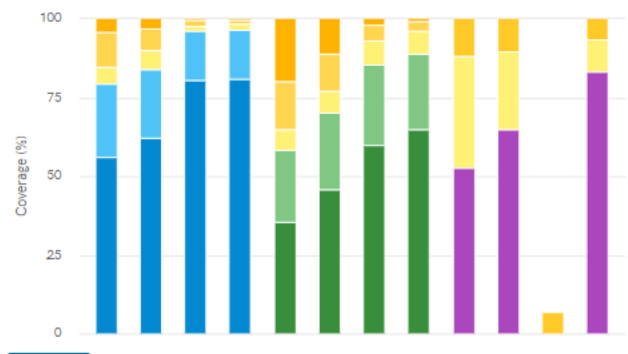
Summary **Drinking Water** Sanitation Hygiene

Population lacking basic sanitation, 2015 and 2022



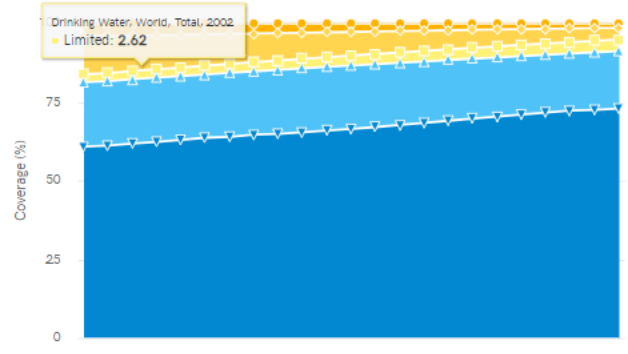
Edit

Rural and urban service levels, 2015 and 2022



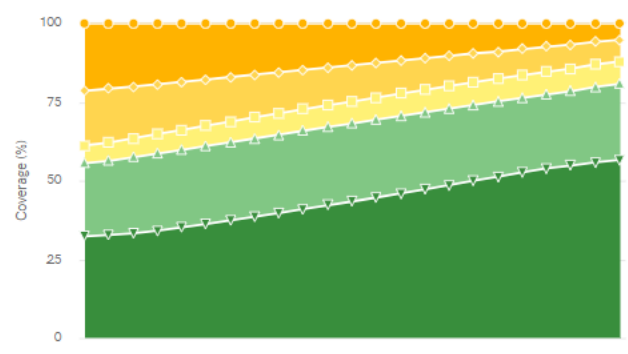
Edit

Trends in drinking water service levels, 2000-2022

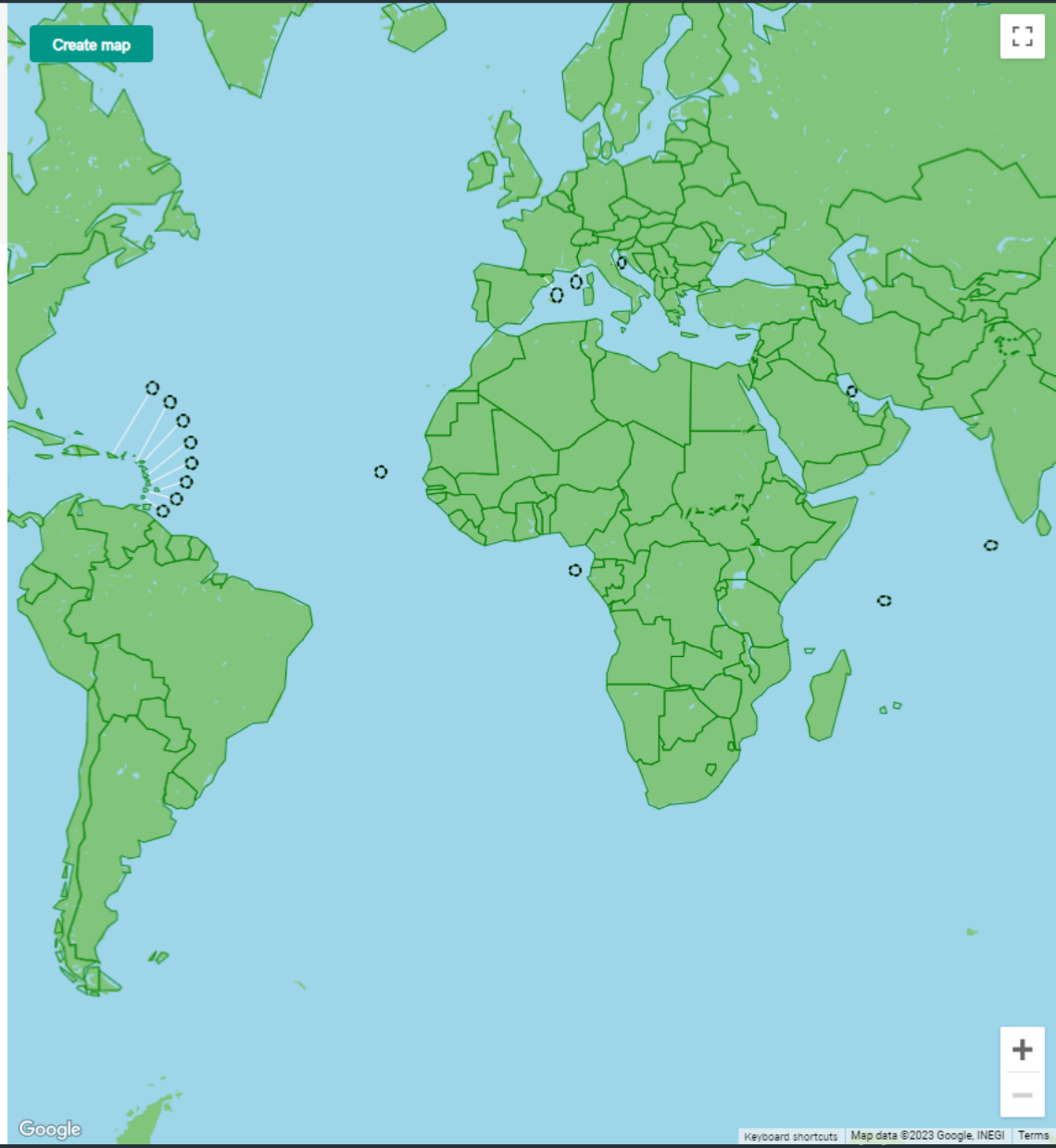


Edit

Trends in sanitation service levels, 2000-2022



Edit



HOUSEHOLDS

Downloads index

Household School Health Care Facilities

| | Household | School | Health Care Facilities |
|------------------------------------|---|------------------------------|------------------------------|
| World | World file | World file | World file |
| Regions | Regions file | Regions file | Regions file |
| [+] Australia and New Zealand (2) | | | |
| [-] Central and Southern Asia (14) | | | |
| Afghanistan | Country file Inequalities | | Country file |
| Bangladesh | Country file Inequalities | | Country file |
| Bhutan | Country file Inequalities | | Country file |
| India | Country file Inequalities | Country file | Country file |
| Iran (Islamic Republic of) | Country file | Country file | Country file |
| Kazakhstan | Country file Inequalities | | |

f X



*Target 6.1: By 2030, achieve **universal** and **equitable** access to **safe** and **affordable** drinking water for all*

Indicator 6.1.1 : Safely managed drinking water

| DRINKING WATER | |
|-----------------------|---|
| IMPROVED FACILITIES | <p>Piped supplies</p> <ul style="list-style-type: none"> • Tap water in the dwelling, yard or plot, including piped to a neighbour • Public taps or standpipes <p>Non-piped supplies</p> <ul style="list-style-type: none"> • Boreholes/tubewells • Protected wells and springs • Rainwater • Packaged water, including bottled water and sachet water • Delivered water, including tanker trucks and small carts/tank/drum • Water kiosk |
| UNIMPROVED FACILITIES | <p>Non-piped supplies</p> <ul style="list-style-type: none"> • Unprotected wells and springs |
| NO FACILITY | <p>Surface water</p> <ul style="list-style-type: none"> • Open water sources located above ground including rivers, lakes, ponds, streams, canals, reservoirs and irrigation channels |

| SERVICE LEVEL | DEFINITION |
|-----------------------|---|
| SAFELY MANAGED | Drinking water from an improved source that is accessible 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 |



FIGURE 14 SDG ladder for drinking water services

Note: Improved sources include: piped water, boreholes or tubewells, protected dug wells, protected springs, rainwater, and packaged or delivered water.

TABLE (A1.1) JMP classification of improved and unimproved facility types

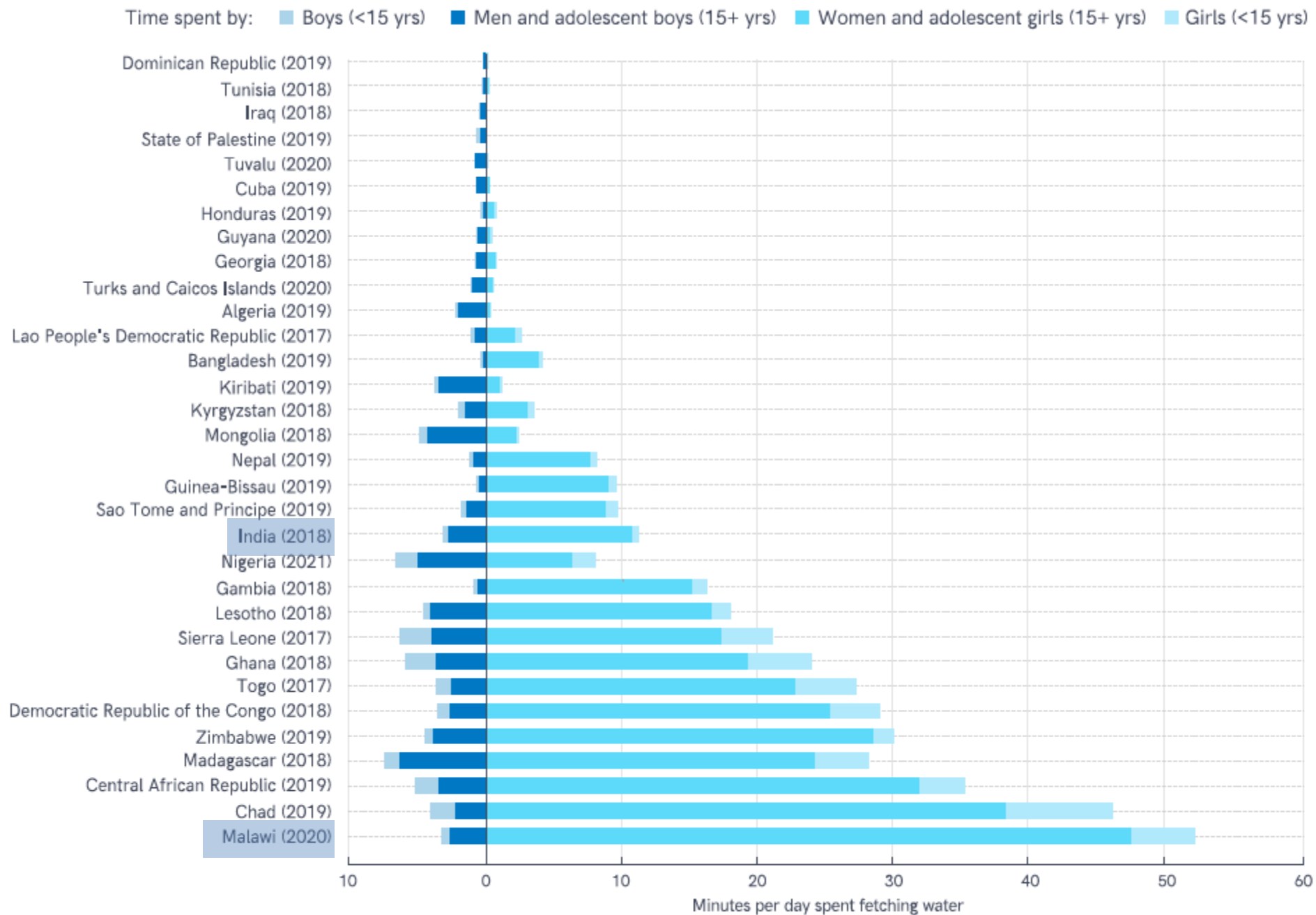
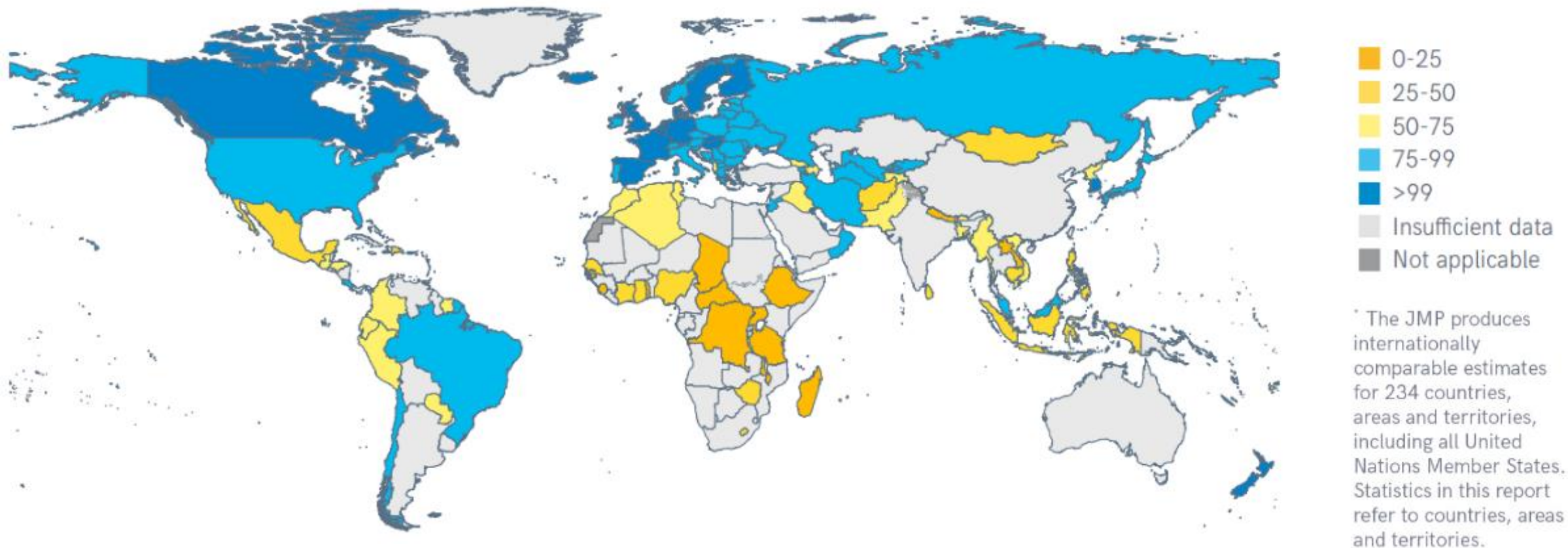


FIGURE 21 Average time spent collecting water by women, men, girls and boys, by country, selected surveys, 2012–2022 (minutes per day)



142 countries had estimates for safely managed services in 2022



Proportion of population using safely managed drinking water services, 2022 (%)

Water quality is the most common limiting factor for safely managed drinking water services

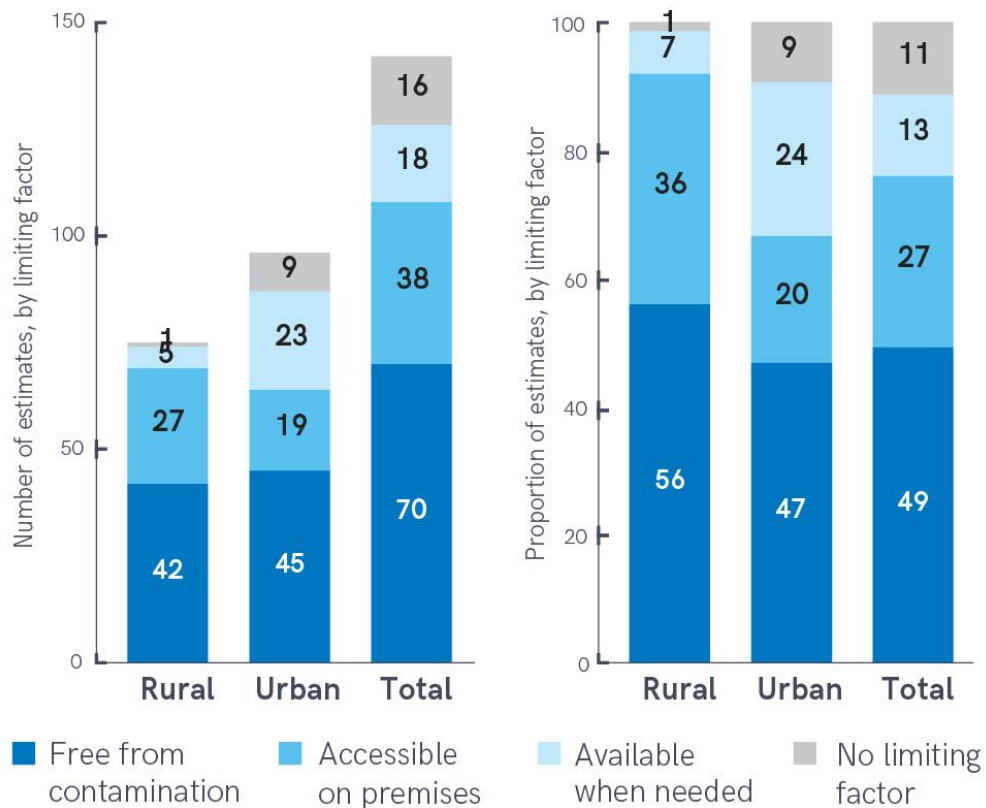
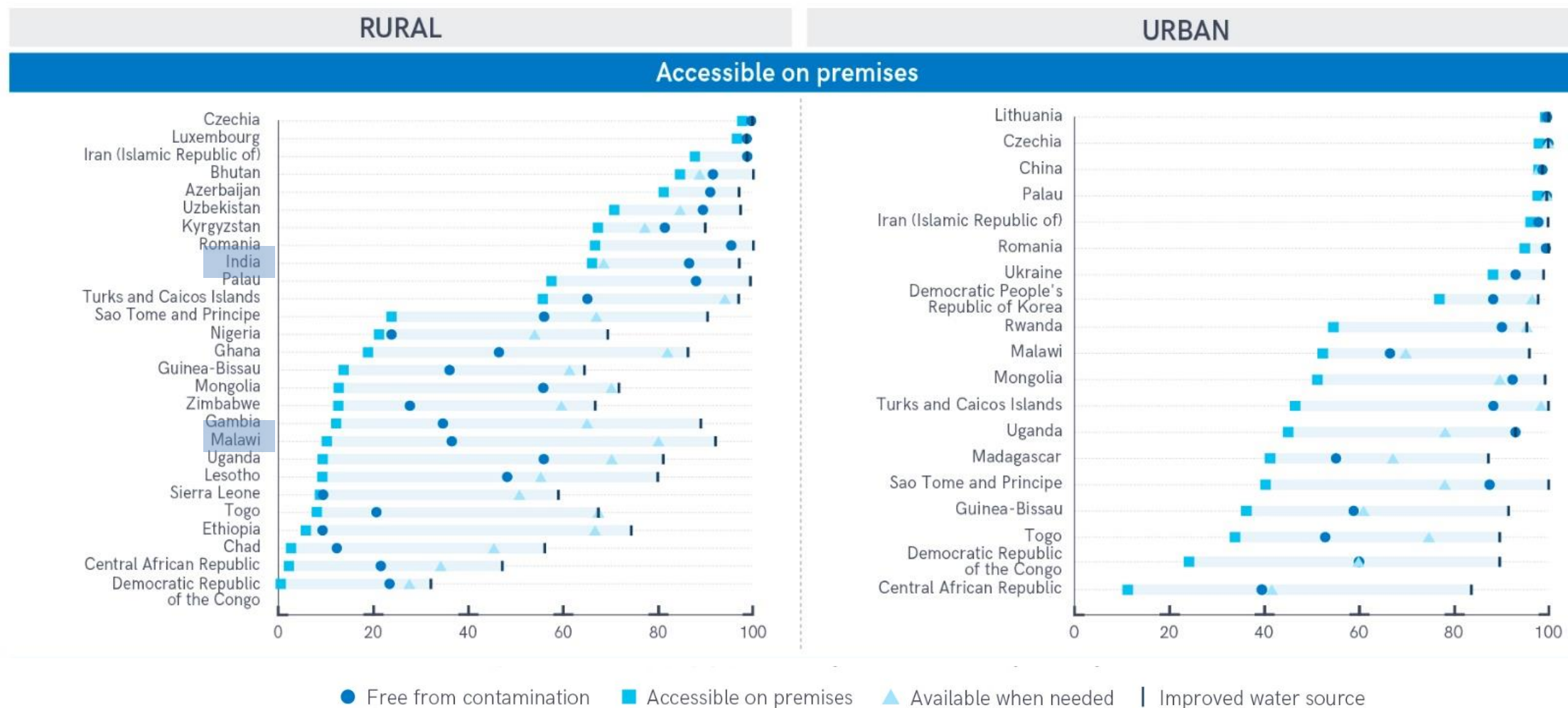


FIGURE 38 Number and proportion of countries by limiting factor for safely managed drinking water services, 2022

Limiting factors for safely managed drinking water vary between and within countries



Limiting factors for safely managed drinking water vary between and within countries



● Free from contamination ■ Accessible on premises ▲ Available when needed | Improved water source

Limiting factors for safely managed drinking water vary between and within countries

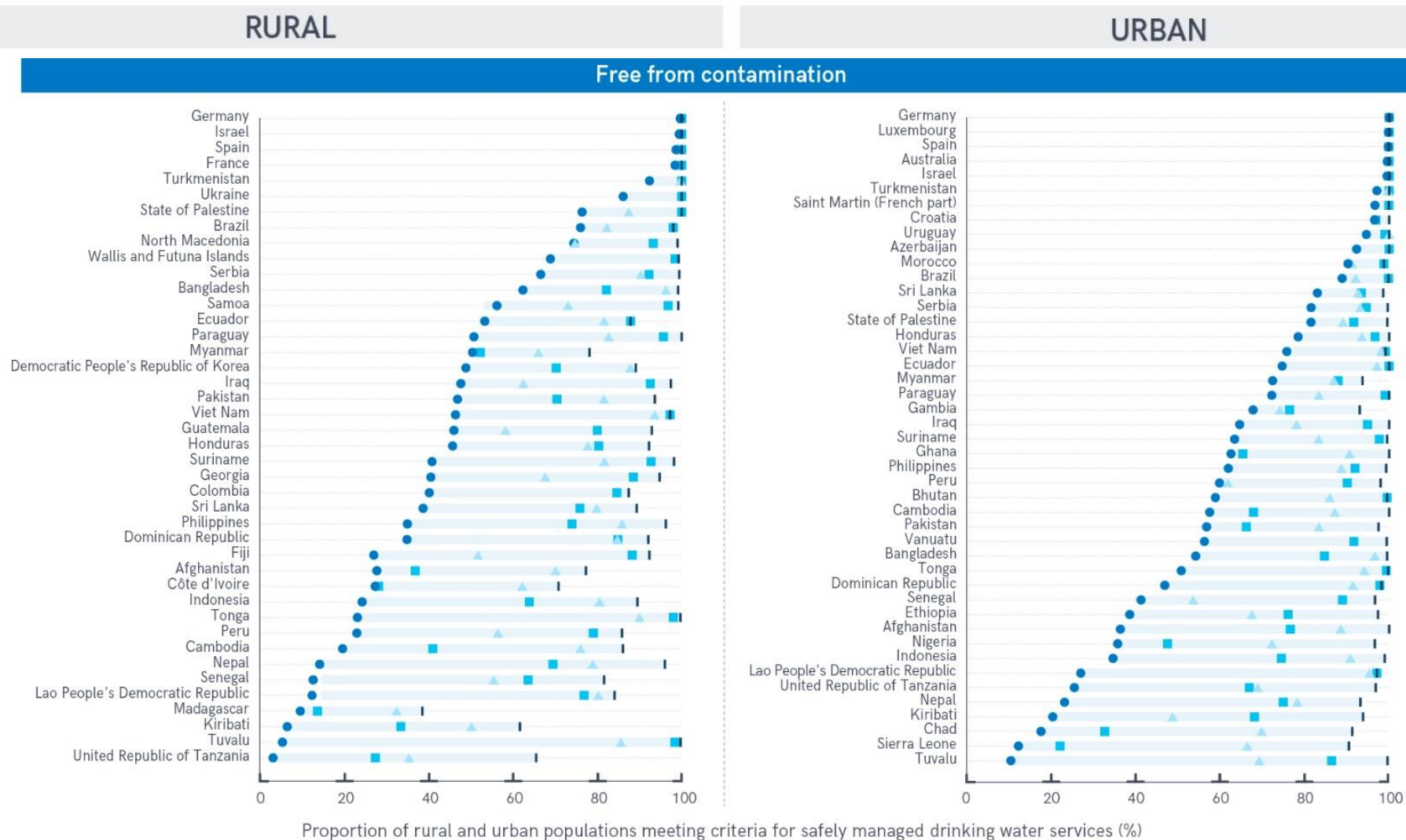


FIGURE 39

Rural and urban coverage, by limiting factor for safely managed drinking water services, 2022 (%)





Joint Monitoring Programme for Water Supply, Sanitation and Hygiene

Estimates on the use of water, sanitation and hygiene in **India**

Updated April 2023

Follow the links below to find the following information:

JMP Estimates:

Water, sanitation and hygiene ladders
Safely managed services
Trends in basic water, sanitation and hygiene
Estimates (2000-2022)



Data inputs:

- [Data Summary](#)
- [Water Data](#)
- [Sanitation Data](#)
- [Wastewater Data](#)
- [Hygiene Data](#)
- [Menstrual Health Data](#)
- [Population](#)



The screenshot shows the 'Downloads index' page on washdata.org. It features a navigation bar with three categories: Household (blue), School (red), and Health Care Facilities (green). Below this is a table listing download links for different geographical levels:

| | Household | School | Health Care Facilities |
|------------------------------------|---|------------------------------|------------------------------|
| World | World file | World file | World file |
| Regions | Regions file | Regions file | Regions file |
| [+] Australia and New Zealand (2) | | | |
| [-] Central and Southern Asia (14) | | | |
| Afghanistan | Country file Inequalities | Country file | Country file |
| Bangladesh | Country file Inequalities | Country file | Country file |
| Bhutan | Country file Inequalities | Country file | Country file |
| India | Country file Inequalities | Country file | Country file |

<https://washdata.org/data/country/IND/household/download>



Summary of data from national surveys, censuses and regulators

[values in square brackets not used]

Drinking water

| | |
|----------------|------------------|
| Drinking water | Hygiene |
| Sanitation | Menstrual Health |



| Source | Type | Year | Improved | Piped | Surface | No more than 30 mins | Accessible on premises | Available when needed | Free from contamination | Improved | Piped | Surface | No more than 30 mins | Accessible on premises | Available when needed | Free from contamination | Improved | Piped | Surface | No more than 30 mins | Accessible on premises | Available when needed | Free from contamination |
|----------------|-----------------------|------|----------|-------|---------|----------------------|------------------------|-----------------------|-------------------------|----------|-------|---------|----------------------|------------------------|-----------------------|-------------------------|----------|-------|---------|----------------------|------------------------|-----------------------|-------------------------|
| IND_2016_DHS | Survey with microdata | 2016 | [94] | [44] | [1] | [98] | [69] | | | 98 | 68 | 0 | 99 | 82 | | | 92 | 32 | 1 | 98 | 62 | | |
| IND_2016_NRDWP | Admin | 2016 | | | | | | | | | | | | | | | | | | | | | 79 |
| IND_2017_NRDWP | Admin | 2017 | | | | | | | | | | | | | | | | | | | | | 68 |
| IND_2018_NSS | Survey | 2018 | [96] | [44] | [1] | [90] | [64] | [58] | | 97 | 65 | 0 | 94 | 79 | 72 | | 95 | 33 | 1 | 90 | 56 | 51 | |
| IND_2018_NNDMS | Survey | 2018 | [99] | | | | | | | 100 | | | | | | | 98 | | | | | | |
| IND_2019_JJM | Admin | 2019 | | | | | | | | | | | | | | | | | | | | | 88 |
| IND_2021_JJM | Admin | 2021 | | | | | | | | | | | | | | | [34] | [34] | | | | | 88 |
| IND_2021_NFHS | Survey with microdata | 2021 | [96] | [46] | [1] | [97] | [76] | [82] | | 99 | 67 | 0 | 98 | 86 | 80 | | 95 | 36 | 1 | 96 | 72 | 84 | |
| IND_2021_DDWS | Admin | 2021 | | | | | | | | | | | | | | | | | | | | | [84] |
| IND_2022_JJM | Admin | 2022 | | | | | | | | | | | | | | | [57] | [57] | | | | | 89 |
| IND_2022_DDWS | Admin | 2022 | | | | | | | | | | | | | | | | | | | | | [85] |
| IND_2022_AMR | Admin | 2022 | | | | | | | | | | | | | | | [86] | | | | | | |

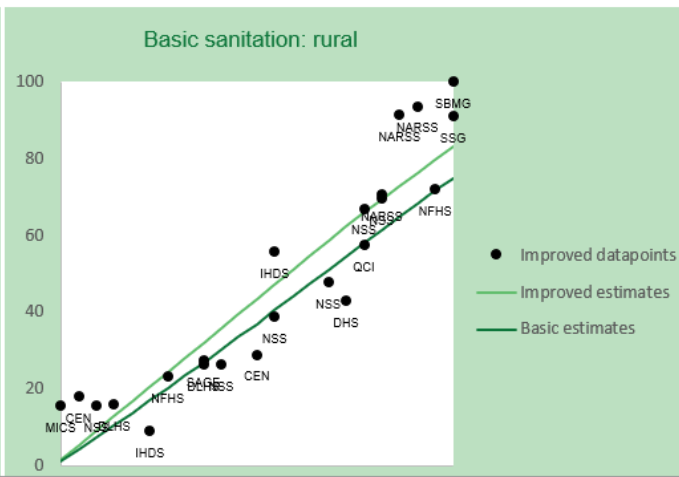
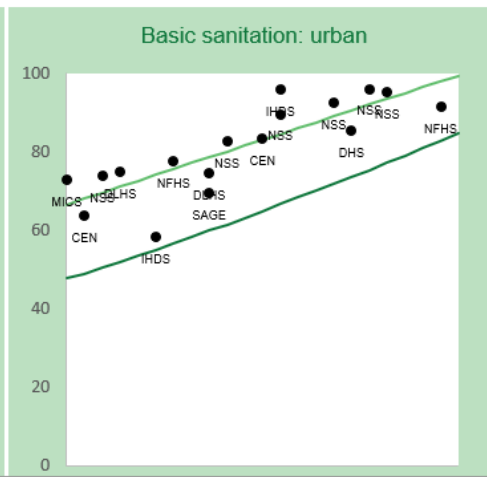
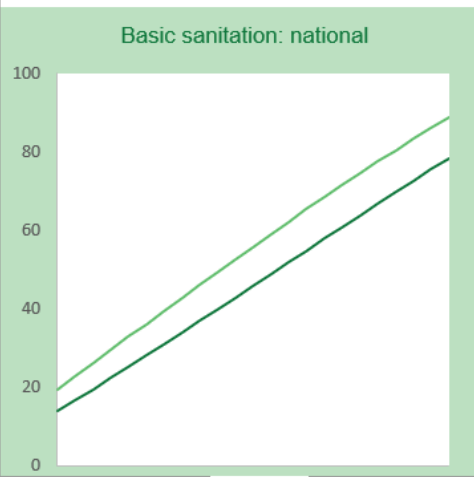
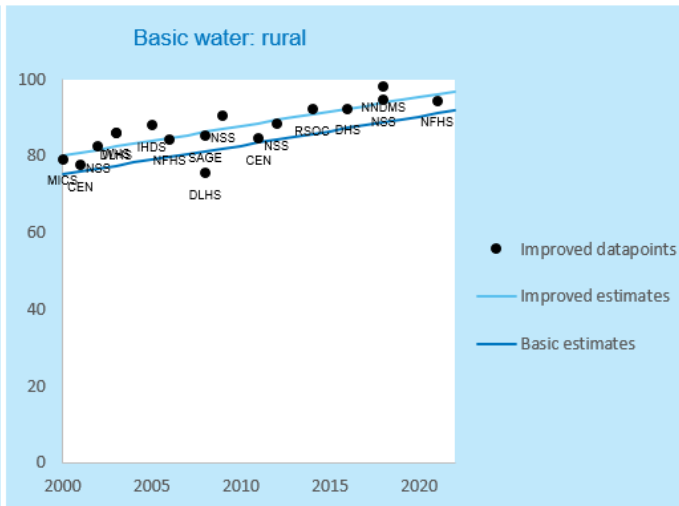
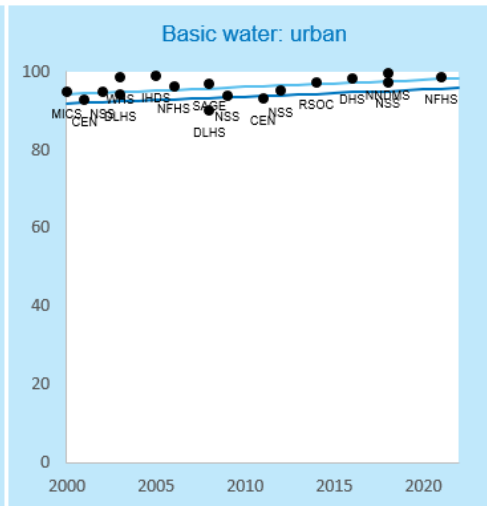
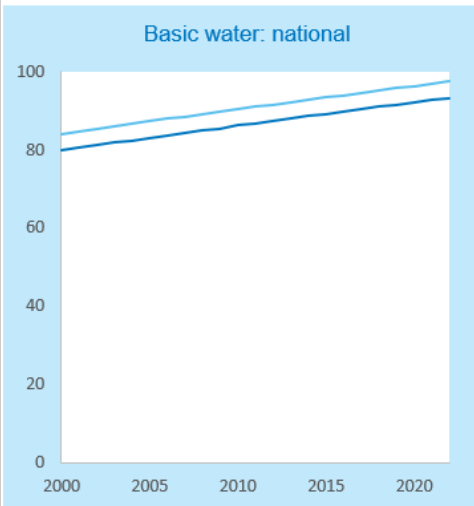
Basic drinking water, sanitation and hygiene services

Drinking water

Sanitation

Hygiene

Open defecation



- JMP uses simple linear regression among all available national data points
 - Limits on extrapolation
- All data points have equal weight
- Urban and rural estimates produced separately

IT73

| | A | IM | IN | IO | IP | IQ | IR | IS | IT | IU | IV | IW | IX | IY | JL | JM | JN | JO | JP | | | |
|----|----------------------------------|----------|---|---------------------------|----|----|-------|-------|--|-----------------------|---------------------------|----|----|-------|---|----------|------------------------------|---------------------------|----|--|-------|-------|
| 1 | | | Use of drinking water sources India | | | | | | Use of drinking water sources India | | | | | | Use of drinking water sources India | | | | | | | |
| 2 | | | IND_2021_JJM | | | | | | IND_2021_NFHS | | | | | | IND_2022_JJM | | | | | | | |
| 3 | Links to sources within this tab | | Admin Jal Jeevan Mission | | | | | | Survey with microdata National Family Health Survey (NFHS-5) 2019-21 | | | | | | Admin Jal Jeevan Mission | | | | | | | |
| 4 | | National | Definitions | Facility type estimates | | | Urban | Rural | National | Definitions | Facility type estimates | | | Urban | Rural | National | Definitions | Facility type estimates | | | Urban | Rural |
| 5 | IND_1991_CEN | | | Improved | | | | 33.7 | | | Improved | | | 98.7 | 94.6 | 95.9 | | Improved | | | | 57.3 |
| 6 | IND_1993_DHS | | | All piped | | | | 33.7 | | | All piped | | | 73.2 | 38.4 | 49.5 | | All piped | | | | 57.3 |
| 7 | IND_1993_NSS | | | Non-piped | | | | 0.0 | | | Non-piped | | | 25.4 | 56.2 | 46.4 | | Non-piped | | | | 0.0 |
| 8 | IND_1996_NSS | | | Surface water | | | | | | | Surface water | | | 0.4 | 0.9 | 0.7 | | Surface water | | | | |
| 9 | IND_1999_NFHS | | | Service level estimates | | | | | | | Service level estimates | | | | | | | Service level estimates | | | | |
| 10 | IND_2000_MICS | | | Accessibility | | | | | | | Accessibility | | | | | | | Accessibility | | | | |
| 11 | IND_2001_CEN | | | On premises | | | | | | On premises | On premises | | | 86.5 | 71.6 | 76.5 | | On premises | | | | |
| 12 | IND_2002_NSS | | | Within 30 minutes | | | | | | Within 30 minutes | Within 30 minutes | | | 98.5 | 95.8 | 96.6 | | Within 30 minutes | | | | |
| 13 | IND_2003_WHS | | | Availability | | | | | | | Availability | | | 79.9 | 83.5 | 82.3 | | Availability | | | | |
| 14 | IND_2003_DLHS | | | Sufficient | | | | | | | Sufficient | | | 79.9 | 83.5 | 82.3 | | Sufficient | | | | |
| 15 | IND_2005_IHDS | | | Most of the time | | | | | | | Most of the time | | | | | | | Most of the time | | | | |
| 16 | IND_2006_NFHS | | | Continuous | | | | | | | Continuous | | | | | | | Continuous | | | | |
| 17 | IND_2008_DLHS | | | Other | | | | | | | Other | | | | | | | Other | | | | |
| 18 | IND_2008_SAGE | | | Quality | | | | 88.1 | | | Quality | | | | | | | Quality | | | | 88.7 |
| 19 | IND_2008_CPCB | | No E. coli per 100 mL sample | Microbial | | | | 88.1 | | | Microbial | | | | | | No E. coli per 100 mL sample | Microbial | | | | 88.7 |
| 20 | IND_2009_NSS | | | Fluoride | | | | | | | Fluoride | | | | | | | Fluoride | | | | |
| 21 | IND_2009_CES | | | Arsenic | | | | | | | Arsenic | | | | | | | Arsenic | | | | |
| 22 | IND_2010_NRDWP | | | Other | | | | | | | Other | | | | | | | Other | | | | |
| 23 | IND_2011_NRDWP | | | Safely managed | | | | | | | Safely managed | | | | | | | Safely managed | | | | |
| 24 | IND_2011_CEN | | | Data used for estimates | | | | | | | Data used for estimates | | | | | | | Data used for estimates | | | | |
| 25 | IND_2012_IHDS | No | | Improved | | | No | No | No | | Improved | | | Yes | Yes | No | | Improved | | | No | No |
| 26 | IND_2012_NRDWP | No | | All piped | | | No | Yes | No | | All piped | | | Yes | Yes | No | | All piped | | | No | Yes |
| 27 | IND_2012_NSS | - | | Accessibility | | | - | - | - | | Accessibility | | | - | - | - | | Accessibility | | | - | - |
| 28 | IND_2013_NRDWP | No | | On premises | | | No | No | No | | On premises | | | Yes | Yes | No | | On premises | | | No | No |
| 29 | IND_2014_RSOC | No | | Within 30 minutes | | | No | No | No | | Within 30 minutes | | | Yes | Yes | No | | Within 30 minutes | | | No | No |
| 30 | IND_2014_SQUAT | No | | Availability | | | No | No | No | | Availability | | | Yes | Yes | No | | Availability | | | No | No |
| 31 | IND_2014_NRDWP | No | | Quality | | | No | Yes | No | | Quality | | | No | No | No | | Quality | | | No | Yes |
| 32 | IND_2015_CPCB | No | | Surface water | | | No | No | No | | Surface water | | | Yes | Yes | No | | Surface water | | | No | No |
| 33 | IND_2015_NRDWP | Notes | Data on tap water as of 21 January 2021. During the financial year 2021-2022, about 20,41,273 samples were tested for bacterial contamination in 2,03,103 villages, and 2,42,803 samples in 19,206 villages were found contaminated | | | | | | Notes | | | | | | Data taken from the JJM website where the dashboard shows household with tap water equals 57.32. Website last accessed Feb 23. During the financial year 2022-2023, about 26,98,330 were tested for bacterial contamination in 2,56,778 villages, 3, samples in 49,404 villages were found contaminated | | | | | | | |
| 34 | IND_2015_NSS | National | Original denomination | Classification | | | Urban | Rural | National | Original denomination | Classification | | | Urban | Rural | National | Original denomination | Classification | | | Urban | Rural |
| 35 | IND_2016_DHS | | | Tap water | | | | 33.7 | | | Tap water | | | 66.8 | 36.4 | 46.1 | | Tap water | | | | 57.3 |
| 36 | IND_2016_NRDWP | | | House connections | | | | | | | House connections | | | 53.8 | 22.3 | 32.3 | | House connections | | | | |
| 37 | IND_2017_NRDWP | | | Piped water into dwelling | | | | | | pipd into dwelling | Piped water into dwelling | | | 37.9 | 10.5 | 19.2 | | Piped water into dwelling | | | | |
| 38 | IND_2017_QCI | | | Piped water to yard/plot | | | | | | pipd to yard/plot | Piped water to yard/plot | | | 15.9 | 11.7 | 13.1 | | Piped water to yard/plot | | | | |
| 39 | IND_2017_NSS | | | Public tap, standpipe | | | | | | public tap/standpipe | Public tap, standpipe | | | 11.4 | 12.7 | 12.3 | | Public tap, standpipe | | | | |
| 40 | IND_2018_NARSS | | | Other | | | | | | pipd to neighbor | Other | | | 1.6 | 1.4 | 1.5 | | Other | | | | |
| 41 | IND_2018_NSS | | | Ground water | | | | | | | Ground water | | | 21.7 | 56.3 | 45.3 | | Ground water | | | | |
| 42 | IND_2018_NNDMS | | | Protected ground water | | | | | | | Protected ground water | | | 21.1 | 52.1 | 42.2 | | Protected ground water | | | | |

Exercise 1

- What proportion of drinking water in Malawi is free from *E. coli*? Where did this data come from?

| | Household | School | Health Care Facilities |
|------------|---|------------------------------|------------------------------|
| Liberia | | | |
| Madagascar | Country file Inequalities | Country file | Country file |
| Malawi | Country file Inequalities | Country file | Country file |
| Mali | Country file Inequalities | Country file | Country file |
| Mauritania | Country file Inequalities | Country file | Country file |
| Mauritius | Country file | Country file | |
| Mayotte | Country file | | |
| Mozambique | Country file Inequalities | Country file | Country file |
| Namibia | Country file Inequalities | Country file | Country file |
| Niger | Country file Inequalities | Country file | Country file |
| Nigeria | Country file Inequalities | Country file | Country file |
| Rwanda | Country file Inequalities | Country file | Country file |
| Réunion | Country file | | |





Joint Monitoring Programme for Water Supply, Sanitation and Hygiene

Estimates on the use of water, sanitation and hygiene in

Malawi

Updated April 2023

Follow the links below to find the following information:

JMP Estimates:

- [Water, sanitation and hygiene ladders](#)
- [Safely managed services](#)
- [Trends in basic water, sanitation and hygiene Estimates \(2000-2022\)](#)



Data inputs:

- [Data Summary](#)
- [Water Data](#)
- [Sanitation Data](#)
- [Wastewater Data](#)
- [Hygiene Data](#)
- [Menstrual Health Data](#)
- [Population](#)



M77 =HF(AND(ISTEXT(OFFSET("Water Data"!\$B\$2,0,6*ROW("Water Data"!P71))),DE77="Yes"),OFFSET("Water Data"!\$E\$8,0,6*ROW("Water Data"!P71)),IF(AND(ISTEXT(OFFSET("Water Data"!\$B\$2,0,6*ROW("Water Data"!P71))),DE77="No",ISNUMBER(OFFSET("Water Data"!\$E\$8,0,6*ROW("Water Data"!P71))),DE77="No",ISNUMBER(OFFSET("Water Data"!\$E\$8,0,6*ROW("Water Data"!P71))))

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE

Summary of data from national surveys, censuses and regulators

[values in square brackets not used]

Drinking water

Hygiene

Sanitation

Menstrual Health

| Source | Type | Year |
|---------------|-----------------------|------|
| MWI_2014_WMS | Survey with microdata | 2014 |
| MWI_2015_UNSD | Admin | 2015 |
| MWI_2016_UNSD | Admin | 2016 |
| MWI_2016_PHIA | Survey with microdata | 2016 |
| MWI_2016_DHS | Survey with microdata | 2016 |
| MWI_2017_AFB | Survey with microdata | 2017 |
| MWI_2017_IHS | Survey with microdata | 2017 |
| MWI_2017_MIS | Survey with microdata | 2017 |
| MWI_2017_WV | Survey with microdata | 2017 |
| MWI_2017_UNSD | Admin | 2017 |
| MWI_2018_UNSD | Admin | 2018 |
| MWI_2018_CEN | Census | 2018 |
| MWI_2019_UNSD | Admin | 2019 |
| MWI_2019_AFB | Survey with microdata | 2019 |
| MWI_2020_IHS | Survey with microdata | 2020 |
| MWI_2020_MICS | Survey with microdata | 2020 |
| MWI_2020_HFPS | Survey with microdata | 2020 |

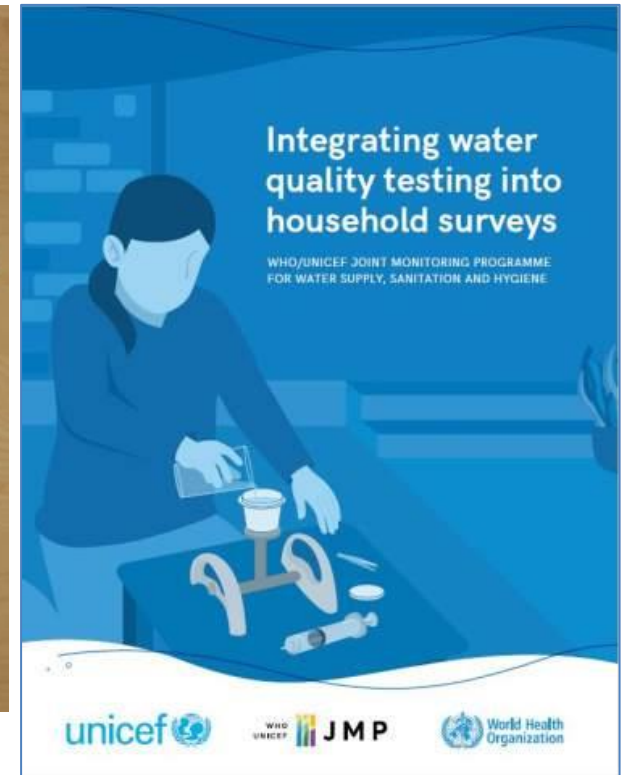
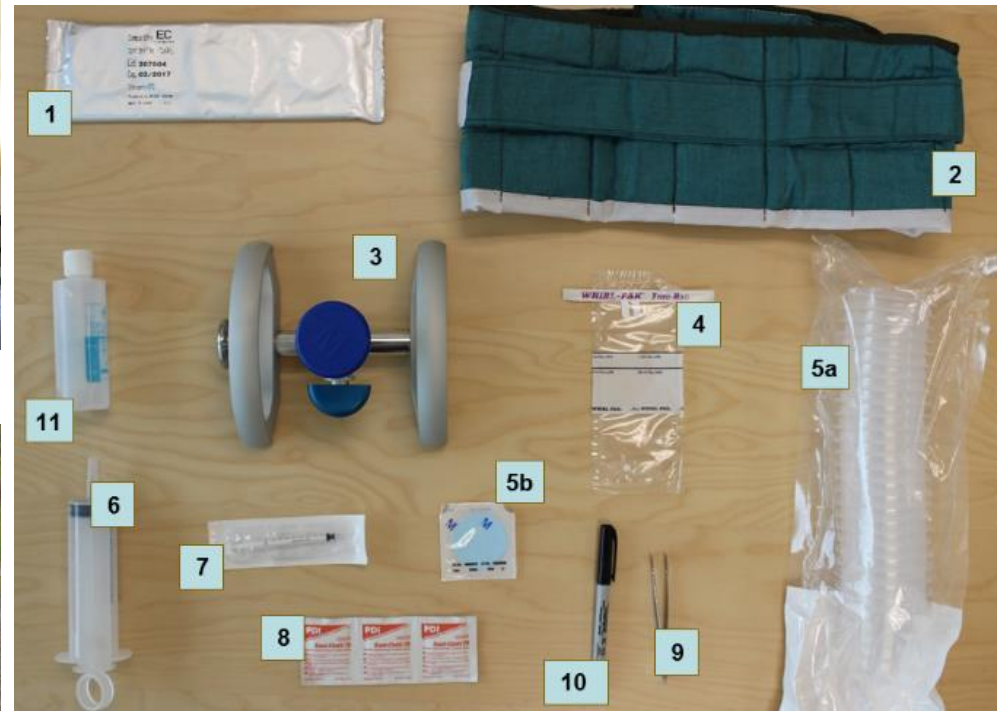
| Drinking water | | | | | | | | | | | | Sanitation | | | | | | | | | | | | | | | |
|----------------|-------|---------|----------------------|------------------------|-----------------------|-------------------------|----------|-------|---------|----------------------|------------------------|-----------------------|-------------------------|----------|-------|---------|----------------------|------------------------|-----------------------|-------------------------|----------|-------|--------|--------------------|-----------------|---------------------------|--------------------|
| National | | | | | | Urban | | | | | | Rural | | | | | | National | | | | | | | | | |
| Improved | Piped | Surface | No more than 30 mins | Accessible on premises | Available when needed | Free from contamination | Improved | Piped | Surface | No more than 30 mins | Accessible on premises | Available when needed | Free from contamination | Improved | Piped | Surface | No more than 30 mins | Accessible on premises | Available when needed | Free from contamination | Improved | Sewer | Septic | Latrines and other | Open defecation | Wastewater enters network | Wastewater reaches |
| [87] | [21] | [3] | [75] | | | | 97 | 81 | 0 | 88 | | | | 86 | 10 | 4 | 73 | | | | [37] | [1] | [3] | [34] | [3] | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| [89] | [22] | [4] | | | | | 96 | 79 | 1 | | | | | 87 | 10 | 5 | | | | | [37] | | | | [4] | | |
| [87] | [20] | [4] | [72] | [17] | [76] | | 98 | 86 | 0 | 88 | 57 | 45 | | 85 | 9 | 4 | 69 | 9 | 82 | | [82] | [1] | [2] | [80] | [5] | | |
| | | | | | | | | | | | | [77] | | | | | | | | | | | | | | [0] | |
| [87] | [20] | [4] | [82] | [18] | | | 94 | 76 | 1 | 94 | 55 | | | 86 | 7 | 5 | 79 | 9 | | | [81] | | | | [7] | | |
| [87] | [24] | [3] | [90] | [16] | | | 99 | 90 | 0 | 96 | 59 | | | 84 | 12 | 4 | 88 | 6 | | | [82] | [0] | [2] | [79] | [6] | | |
| | | | | | | | | | | | | | | | [85] | [7] | [3] | [83] | [9] | [96] | [60] | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| [86] | [19] | [6] | | | | | | | | | | | | | | | | | | | | [18] | | | [6] | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| [81] | [62] | [7] | | | | | 87 | 59 | 0 | | | | | 83 | 7 | 5 | | | | | | | | | [3] | | |
| [89] | [20] | [4] | [68] | [19] | | | 98 | 77 | 0 | 85 | 50 | | | 87 | 9 | 5 | 64 | 11 | | | [80] | [0] | [2] | [78] | [8] | | |
| [88] | [18] | [3] | [84] | [13] | [84] | [44] | 98 | 75 | 0 | 91 | 42 | 76 | 69 | 86 | 8 | 3 | 82 | 7 | 85 | 40 | [80] | [0] | [2] | [78] | [7] | | |
| | | | | | | | | | | | | | [97] | | | | | | | | | | | | | | |

| | A | NK | NL | NM | NN | NO | NP | NQ | NR | NS | NT | NU | NV | NW | NX | NY | NZ | OA | OB | | | |
|----|----------------------------------|-------------------------------------|------|------|------|---|---|-------------------------|----------------|-------------------------------------|-------------------------|---|-------------------------|---------------------------|------|-------------------|---------------------------|------|-------------|-------------------------|--|--|
| 1 | | Malawi | | | | | Use of drinking water sources Malawi | | | | | Use of drinking water sources Malawi | | | | | Use of drinking wa | | | | | |
| 2 | | Afrobarometer | | | | | MWI_2020_IHS | | | | | MWI_2020_MICS | | | | | MWI_2020_HFPS | | | | | |
| 3 | Links to sources within this tab | AFROBAROMETER ROUND 8 - THE QUALITY | | | | | Survey with microdata | | | | | Survey with microdata | | | | | Survey with microdata | | | | | |
| 4 | | Facility type estimates | | | | | Definitions | Facility type estimates | | | | | Definitions | Facility type estimates | | | | | Definitions | | | |
| 5 | MWI 1987_CEN | Improved | 87.3 | 82.8 | 81.5 | On premises No more than 30 mins roundtrip | Improved | 97.6 | 87.0 | 88.6 | Always sufficient | Improved | 97.9 | 86.1 | 87.9 | Always sufficient | Improved | 97.9 | 86.1 | 87.9 | | |
| 6 | MWI 1992_DHS | All piped | 58.5 | 7.2 | 62.5 | | All piped | 76.8 | 9.1 | 19.7 | | All piped | 75.3 | 7.9 | 18.3 | | All piped | 75.3 | 7.9 | 18.3 | | |
| 7 | MWI 1995_MICS | Non-piped | 28.8 | 75.7 | 19.0 | | Non-piped | 20.8 | 77.9 | 69.0 | | Non-piped | 22.6 | 78.2 | 69.6 | | Non-piped | 22.6 | 78.2 | 69.6 | | |
| 8 | MWI 1996_DHS | Surface water | 0.0 | 4.6 | 7.5 | | Surface water | 0.4 | 4.7 | 4.0 | | Surface water | 0.1 | 3.2 | 2.8 | | Surface water | 0.1 | 3.2 | 2.8 | | |
| 9 | MWI 1996_IHS | Service level estimates | | | | | Service level estimates | | | | | | Service level estimates | | | | | | | Service level estimates | | |
| 10 | MWI 1997_IHS | Accessibility | | | | | Accessibility | | | | | Accessibility | | | | | Accessibility | | | | | |
| 11 | MWI 1998_CEN | On premises | | | | | On premises | 50.4 | 11.1 | 19.0 | | On premises | 41.6 | 6.9 | 12.9 | | On premises | 41.6 | 6.9 | 12.9 | | |
| 12 | MWI 1999_AFB | Within 30 minutes | | | | | Within 30 minutes | 84.8 | 63.8 | 68.0 | | Within 30 minutes | 91.5 | 82.0 | 83.6 | | Within 30 minutes | 91.5 | 82.0 | 83.6 | | |
| 13 | MWI 2000_IBNET | Availability | | | | Availability | | | | Availability | 76.3 | 85.0 | 83.5 | Availability | 76.3 | 85.0 | 83.5 | | | | | |
| 14 | MWI 2000_DHS | Sufficient | | | | Sufficient | | | | Sufficient | 76.3 | 85.0 | 83.5 | Sufficient | 76.3 | 85.0 | 83.5 | | | | | |
| 15 | MWI 2001_IBNET | Most of the time | | | | Most of the time | | | | Most of the time | | | | Most of the time | | | | | | | | |
| 16 | MWI 2002_IBNET | Continuous | | | | Continuous | | | | Continuous | | | | Continuous | | | | | | | | |
| 17 | MWI 2002_CWIIQ | Other | | | | Other | | | | Other | | | | Other | | | | | | | | |
| 18 | MWI 2003_AFB | Quality | | | | Quality | | | | Quality | 69.4 | 39.7 | 44.5 | Quality | 69.4 | 39.7 | 44.5 | | | | | |
| 19 | MWI 2003_IBNET | Microbial | | | | Microbial | | | | Microbial | 69.4 | 39.7 | 44.5 | Microbial | 69.4 | 39.7 | 44.5 | | | | | |
| 20 | MWI 2003_WHS | Fluoride | | | | Fluoride | | | | Fluoride | | | | Fluoride | | | | | | | | |
| 21 | MWI 2004_IBNET | Arsenic | | | | Arsenic | | | | Arsenic | | | | Arsenic | | | | | | | | |
| 22 | MWI 2004_DHS | Other | | | | Other | | | | Other | | | | Other | | | | | | | | |
| 23 | MWI 2004_IHS | Safely managed | | | | Safely managed | | | | Safely managed | | | | Safely managed | | | | | | | | |
| 24 | MWI 2005_AFB | Data used for estimates | | | | Data used for estimates | | | | | Data used for estimates | | | | | | | | | | | |
| 25 | MWI 2005_IBNET | Improved | Yes | Yes | No | Improved | Yes | Yes | No | Improved | Yes | Yes | No | Improved | Yes | Yes | No | | | | | |
| 26 | MWI 2005_WMS | All piped | Yes | Yes | No | All piped | Yes | Yes | No | All piped | Yes | Yes | No | All piped | Yes | Yes | No | | | | | |
| 27 | MWI 2006_IBNET | Accessibility | - | - | - | Accessibility | - | - | - | Accessibility | - | - | - | Accessibility | - | - | - | | | | | |
| 28 | MWI 2006_MICS | On premises | No | No | No | On premises | Yes | Yes | No | On premises | Yes | Yes | No | On premises | Yes | Yes | No | | | | | |
| 29 | MWI 2007_IBNET | Within 30 minutes | No | No | No | Within 30 minutes | Yes | Yes | No | Within 30 minutes | Yes | Yes | No | Within 30 minutes | Yes | Yes | No | | | | | |
| 30 | MWI 2007_WMS | Availability | No | No | No | Availability | No | No | No | Availability | Yes | Yes | No | Availability | Yes | Yes | No | | | | | |
| 31 | MWI 2008_AFB | Quality | No | No | No | Quality | No | No | No | Quality | Yes | Yes | No | Quality | Yes | Yes | No | | | | | |
| 32 | MWI 2008_IBNET | Surface water | Yes | Yes | No | Surface water | Yes | Yes | No | Surface water | Yes | Yes | No | Surface water | Yes | Yes | No | | | | | |
| 33 | MWI 2008_CEN | Notes | | | | | Notes | | | | | Notes | | | | | | | | | | |
| 34 | | Classification | | | | Original denomination | | | Classification | | | | Original denomination | | | Classification | | | | Original denomination | | |
| 35 | MWI 2009_IBNET | Tap water | | | 58.5 | 7.2 | 62.5 | Tap water | | | 76.8 | 9.1 | 19.7 | Tap water | | | 75.3 | 7.9 | 18.3 | | | |
| 36 | MWI 2009_WMS | House connections | | | 44.3 | 3.7 | 39.3 | House connections | | | 35.3 | 2.6 | 7.7 | House connections | | | 38.9 | 2.4 | 8.0 | | | |
| 37 | MWI 2009_CFSVA | Piped water into dwelling | 21.9 | 0.6 | 7.5 | Piped into Dwelling | 12.6 | 0.6 | 2.5 | PIPED WATER: PIPED INTO DWELLING | 10.6 | 0.4 | 2.0 | Piped water into dwelling | 10.6 | 0.4 | 2.0 | | | | | |
| 38 | MWI 2010_IBNET | Piped water to yard/plot | 22.4 | 3.1 | 31.8 | Piped into Yard/Plot | 22.7 | 2.0 | 5.2 | PIPED WATER: PIPED TO YARD / PLOT | 28.4 | 1.9 | 6.0 | Piped water to yard/plot | 28.4 | 1.9 | 6.0 | | | | | |
| 39 | MWI 2010_DHS | Public tap, standpipe | 14.2 | 3.4 | 23.2 | Communal Standpipe | 32.5 | 5.3 | 9.5 | PIPED WATER: PUBLIC TAP / STANDPIPE | 27.3 | 4.6 | 8.1 | Public tap, standpipe | 27.3 | 4.6 | 8.1 | | | | | |



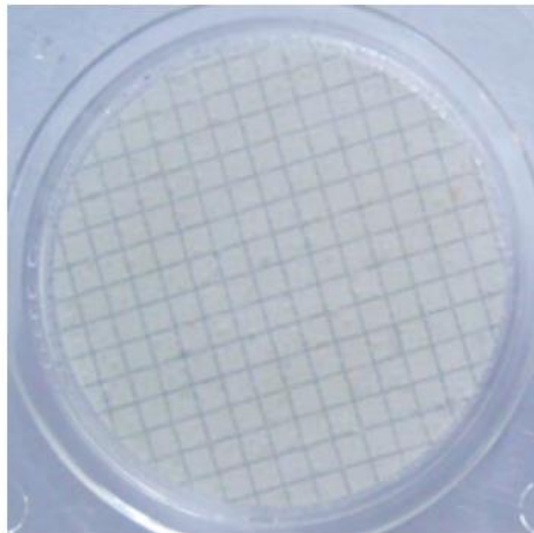
| LIVE IN A SAFE AND CLEAN ENVIRONMENT | | | | | |
|--------------------------------------|--|-------|---------|--|------|
| WS.1 | Use of improved drinking water sources | | WS | Percentage of household members using improved sources of drinking water | 87.9 |
| WS.2 | Use of basic drinking water services | 1.4.1 | WS | Percentage of household members using improved sources of drinking water either in their dwelling/yard/plot or within 30 minutes round trip collection time | 74.2 |
| WS.3 | Availability of drinking water | | WS | Percentage of household members with a water source that is available when needed | 83.3 |
| WS.4 | Faecal contamination of source water | | WQ | Percentage of household members whose source water was tested and with <i>E. coli</i> contamination in source water | 60.2 |
| WS.5 | Faecal contamination of household drinking water | | WQ | Percentage of household members whose household drinking water was tested and with <i>E. coli</i> contamination in household drinking water | 93.2 |
| WS.6 | Use of safely managed drinking water services | 6.1.1 | WS – WQ | Percentage of household members with an improved drinking water source on premises, whose source water was tested and free of <i>E. coli</i> and available when needed | 4.9 |

Free from contamination

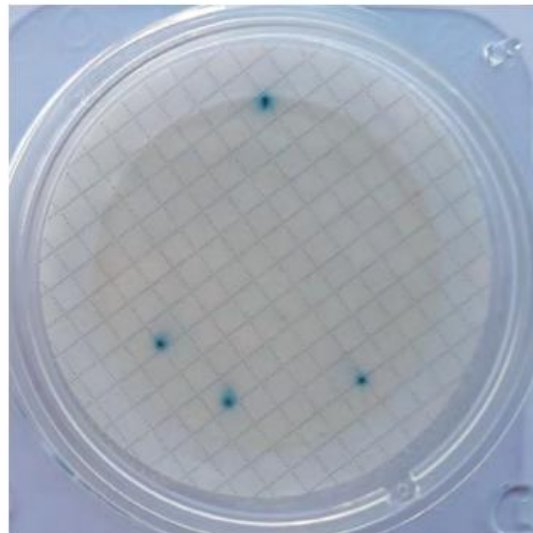


<https://washdata.org/reports/jmp-2020-water-quality-testing-household-surveys>

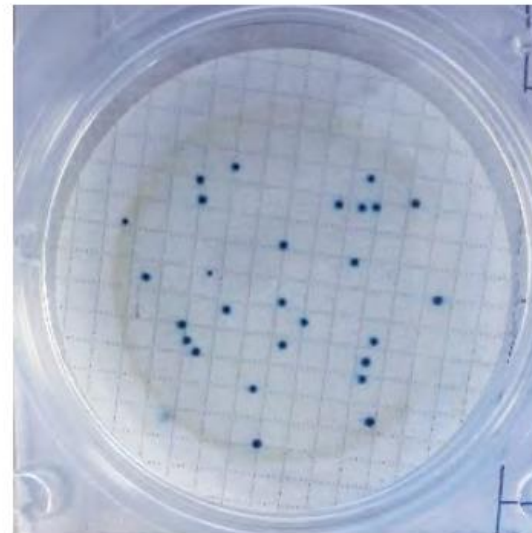
| <i>E. coli</i> in 100 mL | Risk level |
|--------------------------|------------|
| <1 | Low |
| 1-10 | Medium |
| 11-100 | High |
| >100 | Very high |



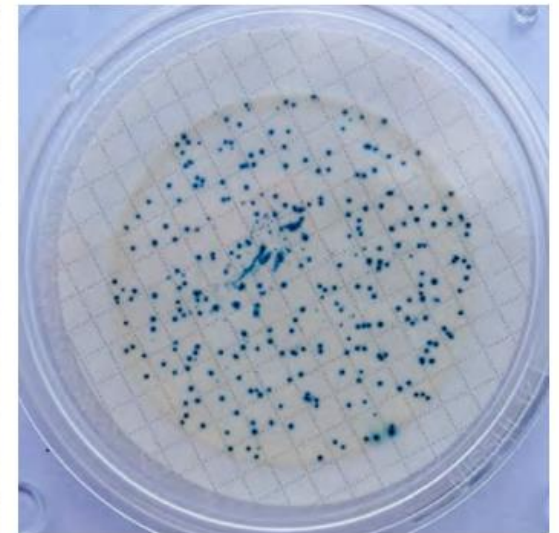
LOW RISK
(no *E.coli* detected)




MEDIUM RISK



HIGH RISK



VERY HIGH RISK

An aerial photograph of a wastewater treatment plant. The foreground shows several large rectangular aeration tanks with turbulent, white water. In the background, there are several rectangular clarifiers with metal railings. The facility is surrounded by green grass and some trees. A semi-transparent text box is overlaid on the center of the image.

*Target 6.2: 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*

Indicator 6.2.1a: Safely managed sanitation

| SANITATION | |
|------------------------------|--|
| IMPROVED FACILITIES | <p>Networked sanitation</p> <ul style="list-style-type: none"> Flush and pour-flush toilets connected to sewers <p>On-site sanitation</p> <ul style="list-style-type: none"> Flush and pour-flush toilets or latrines connected to septic tanks or pits Ventilated improved pit (VIP) latrines Pit latrines with slabs (constructed from materials that are durable and easy to clean) Composting toilets, including twin pit latrines with slabs and container-based systems |
| UNIMPROVED FACILITIES | <p>Networked sanitation</p> <ul style="list-style-type: none"> Flush and pour-flush toilets flushed to open drain or elsewhere* <p>On-site sanitation</p> <ul style="list-style-type: none"> Flush and pour-flush toilets or latrines flushed to open drain or elsewhere* Pit latrines without slabs Open pits Hanging toilets/latrines Bucket latrines, including pans, trays or other unsealed containers |
| NO FACILITY | <p>Open defecation</p> <ul style="list-style-type: none"> Defecation in the bush, field or ditch Defecation into surface water, including beaches, rivers, streams, drainage channels or the sea |

| 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 removed and treated off-site |
| BASIC | Use of improved facilities that are not shared with other households |
| LIMITED | Use of improved facilities that are shared with other households |
| UNIMPROVED | Use of pit latrines without a slab or platform, hanging latrines or bucket latrines |
| OPEN DEFECCATION | Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches or other open places, or with solid waste |



FIGURE 41 SDG ladder for sanitation services

135 countries had estimates for safely managed services in 2022

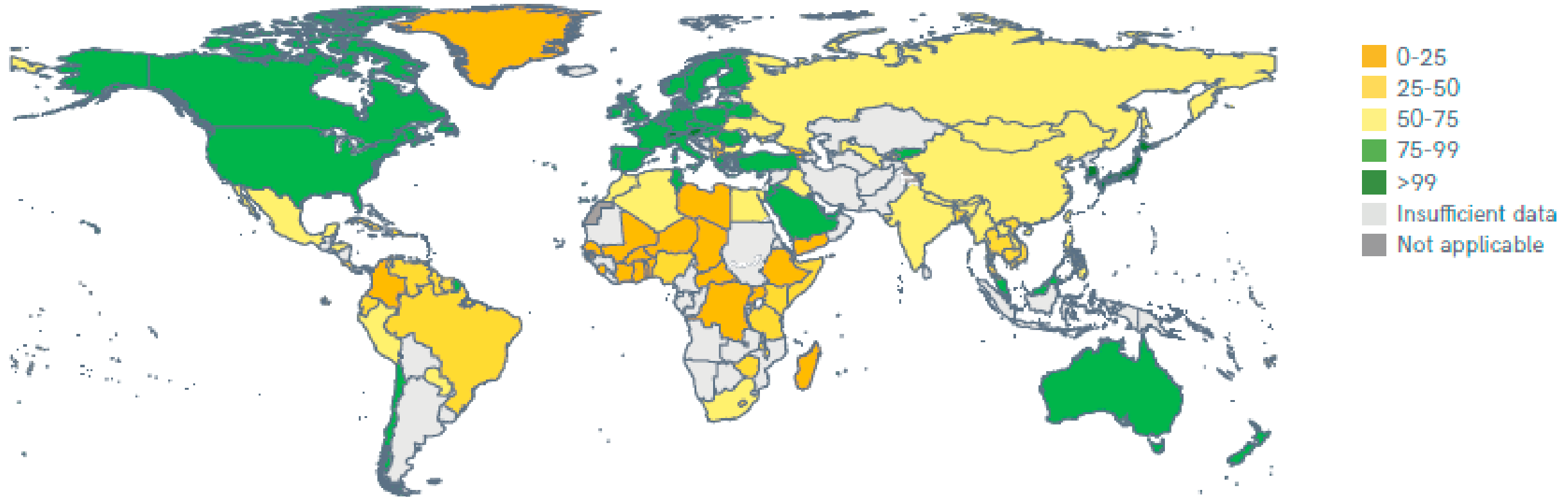


FIGURE 5 Proportion of population using safely managed sanitation services, 2022 (%)

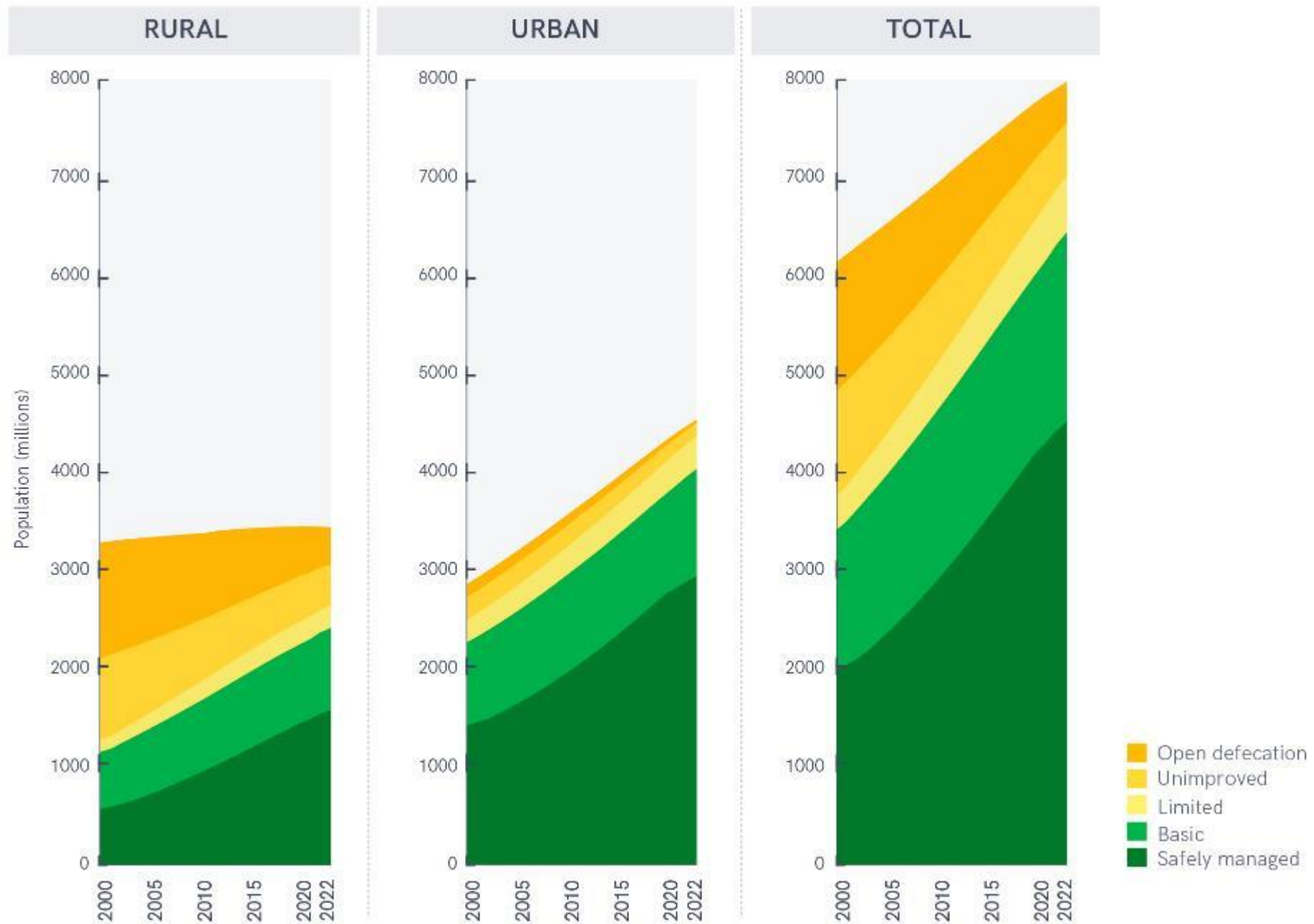


FIGURE 42 Rural, urban and total populations, by sanitation service level, 2000-2022 (millions)



Gender and sanitation

In 33 countries, more than one in four people in urban areas used limited sanitation services in 2022

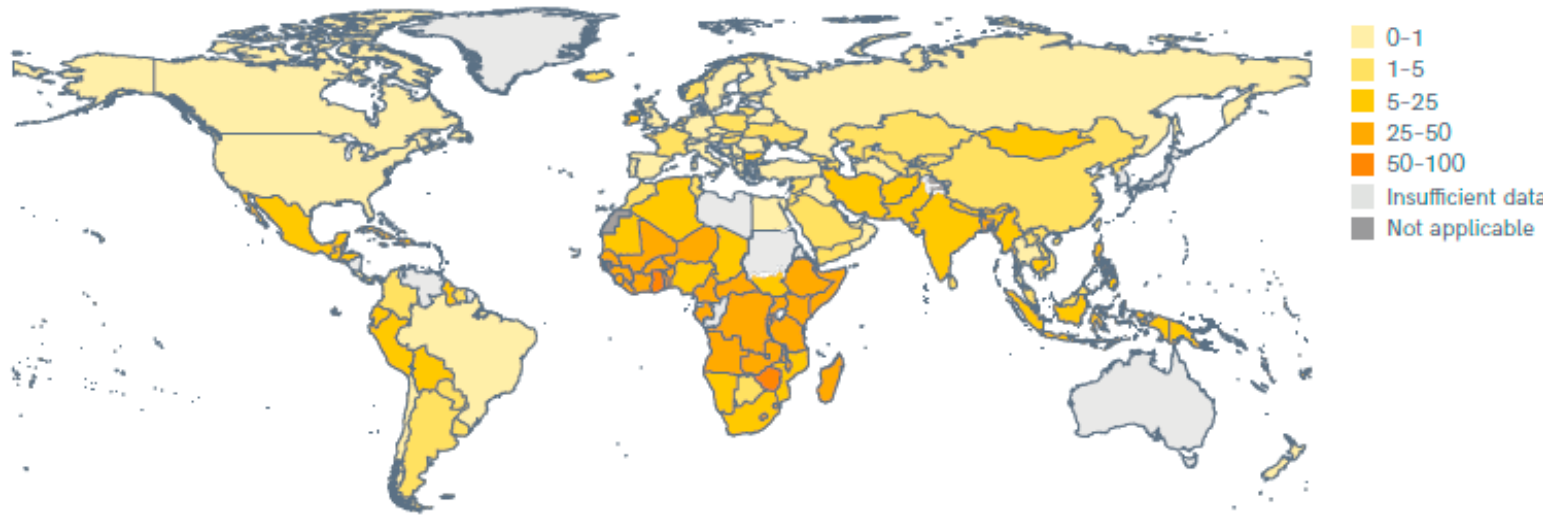


FIGURE 45 Proportion of urban population with limited sanitation services in 2022 (%)

In households with shared sanitation, women are less likely to feel very safe and more likely to feel very unsafe walking alone after dark

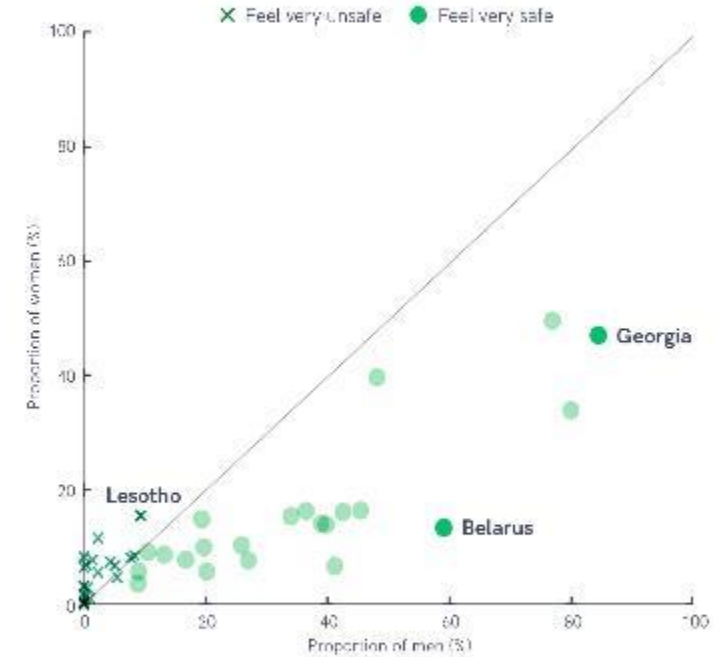


FIGURE 47 Proportion of women and men sharing sanitation facilities who report feeling very safe and very unsafe while walking alone in their neighbourhood after dark, selected Multiple Indicator Cluster Surveys, 2018-2021 (%)

In 13 countries, more than 1 in 4 people practised open defecation in 2022

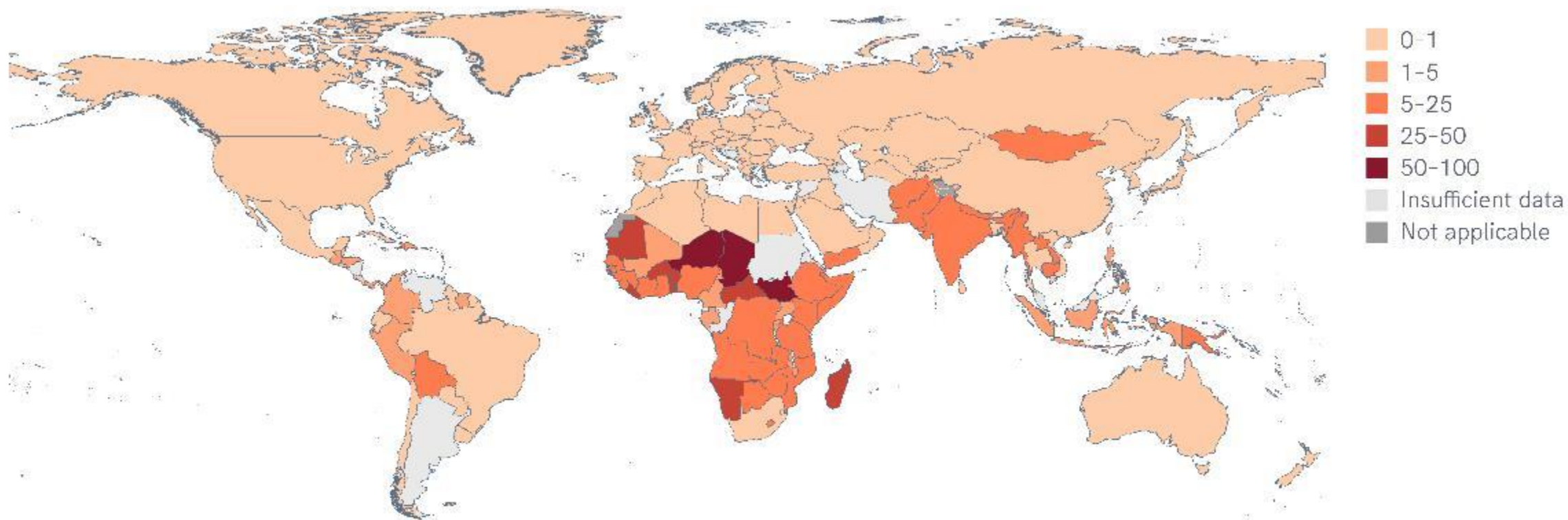


FIGURE 44 Proportion of population practising open defecation in 2022 (%)

Leave no one behind: JMP inequalities database reveals huge disparities between and within countries



FIGURE 67 Inequalities in open defecation in Madagascar and sub-Saharan Africa, 2020 (%)

Note: Wealth quintiles and sub-national inequalities from the Madagascar 2018 MICS.

The distribution of on-site and sewered sanitation varies widely by region

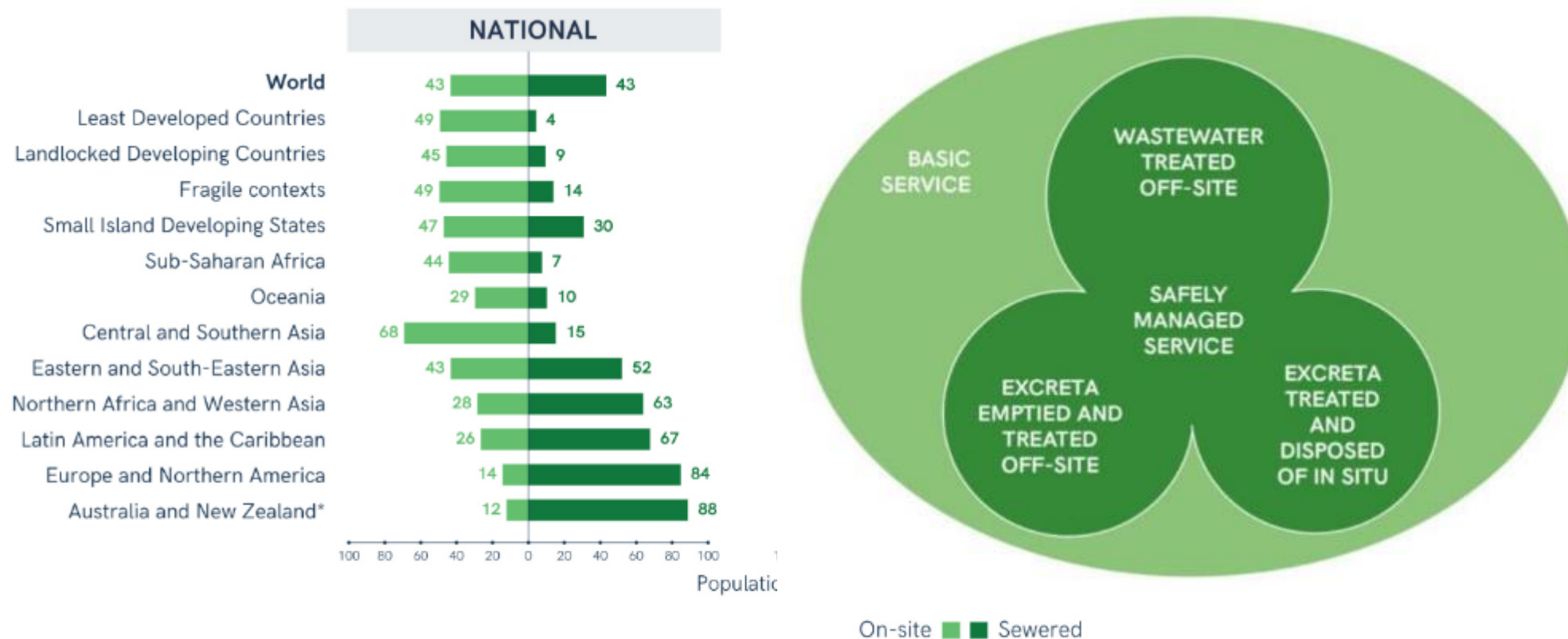


FIGURE 56 National, urban and rural populations using on-site and sewered sanitation, by region, 2020 (%)

*Disaggregated data unavailable for urban and rural areas

Wastewater

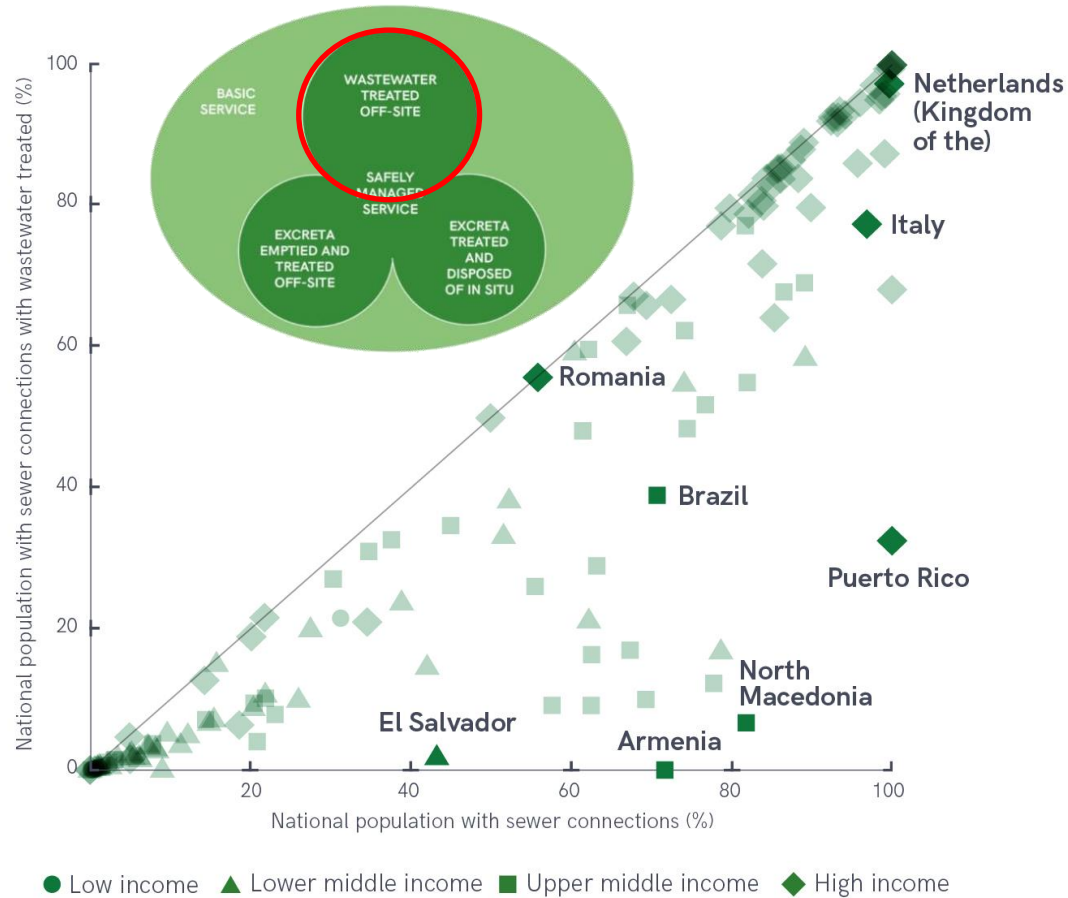
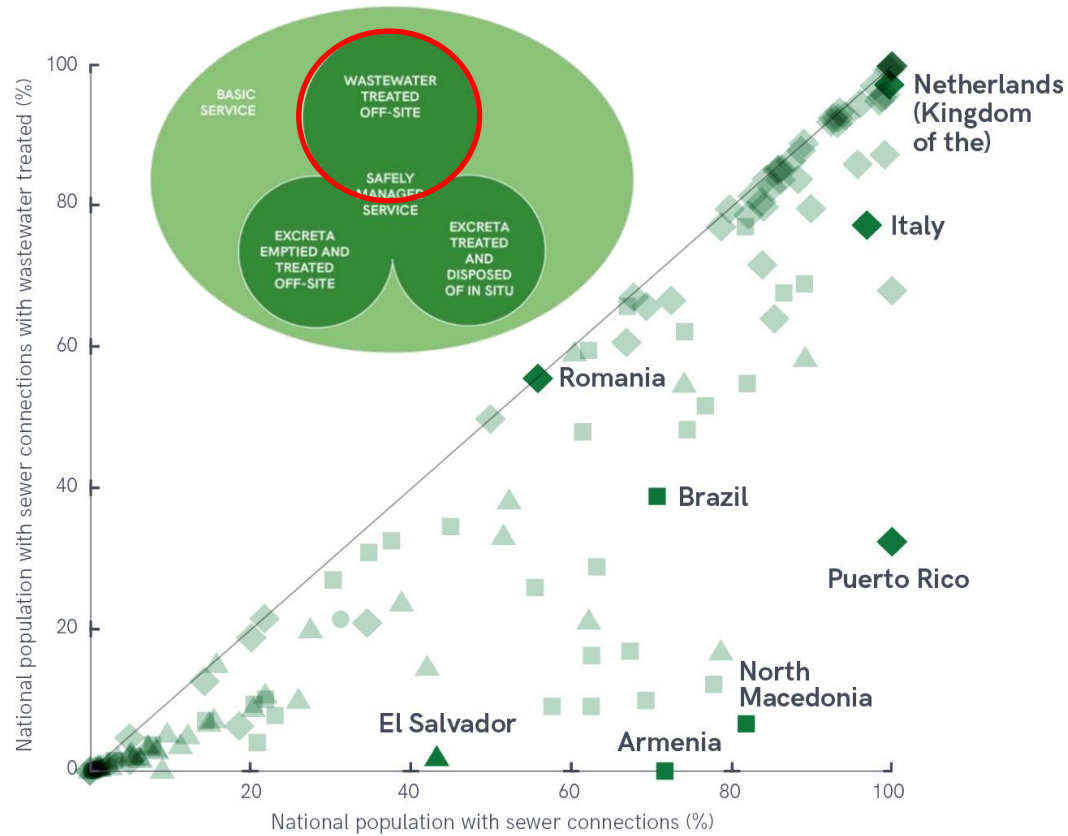


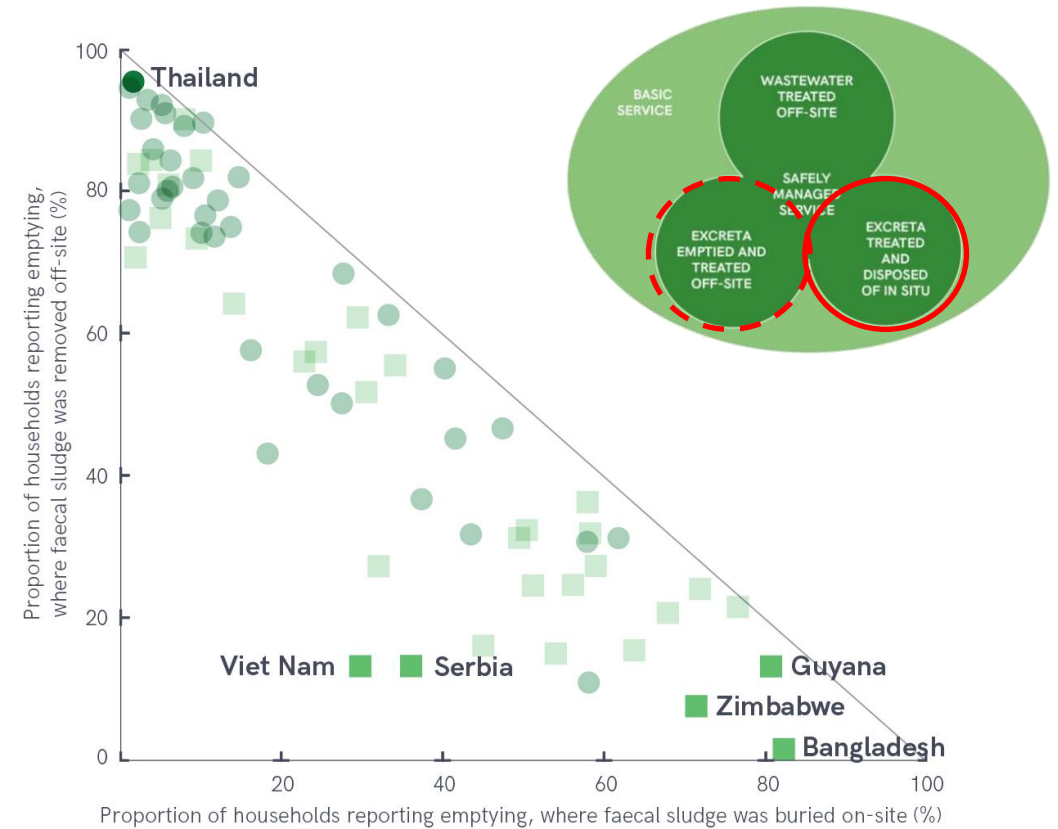
FIGURE 65 Proportion of population with sewer connections and sewer connections with wastewater treated, by country, 2022 (%)

Wastewater, faecal sludge (emptied)



● Low income ▲ Lower middle income ■ Upper middle income ◆ High income

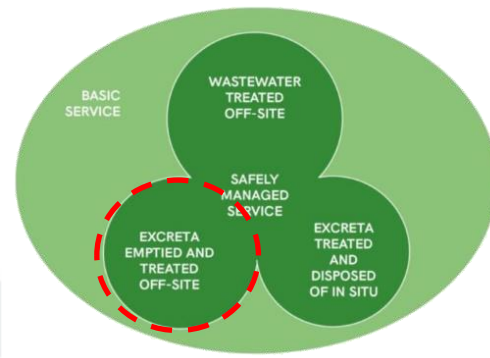
FIGURE 65 Proportion of population with sewer connections and sewer connections with wastewater treated, by country, 2022 (%)



● Septic tanks ■ Latrines and other improved on-site sanitation

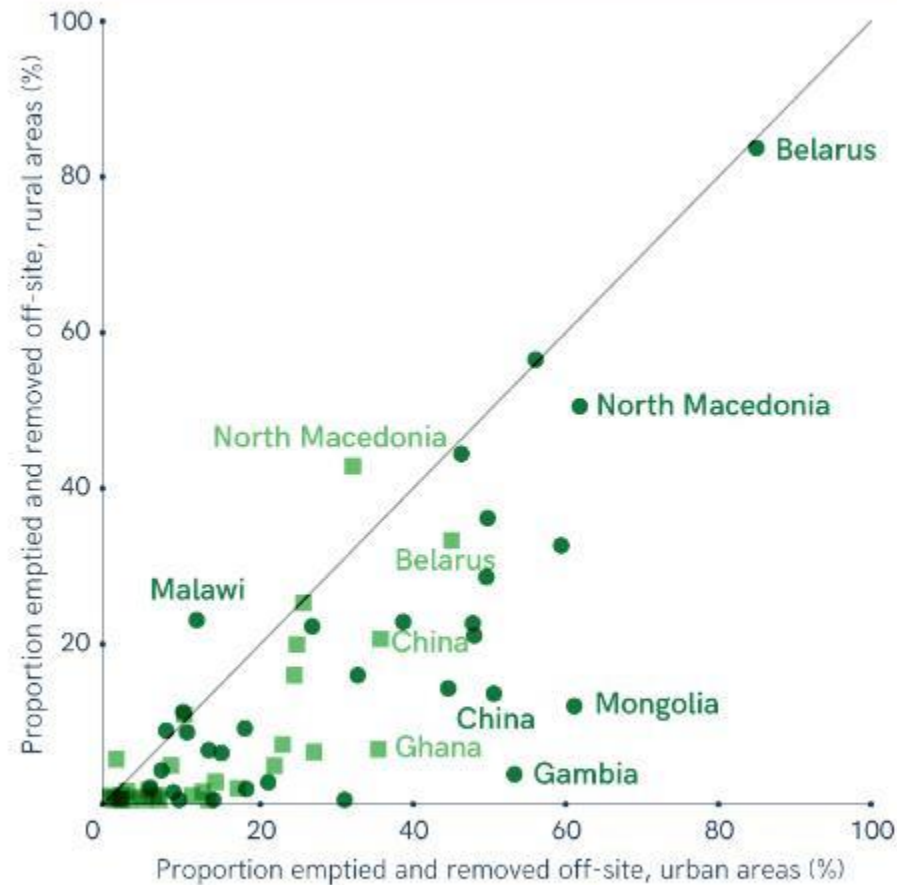
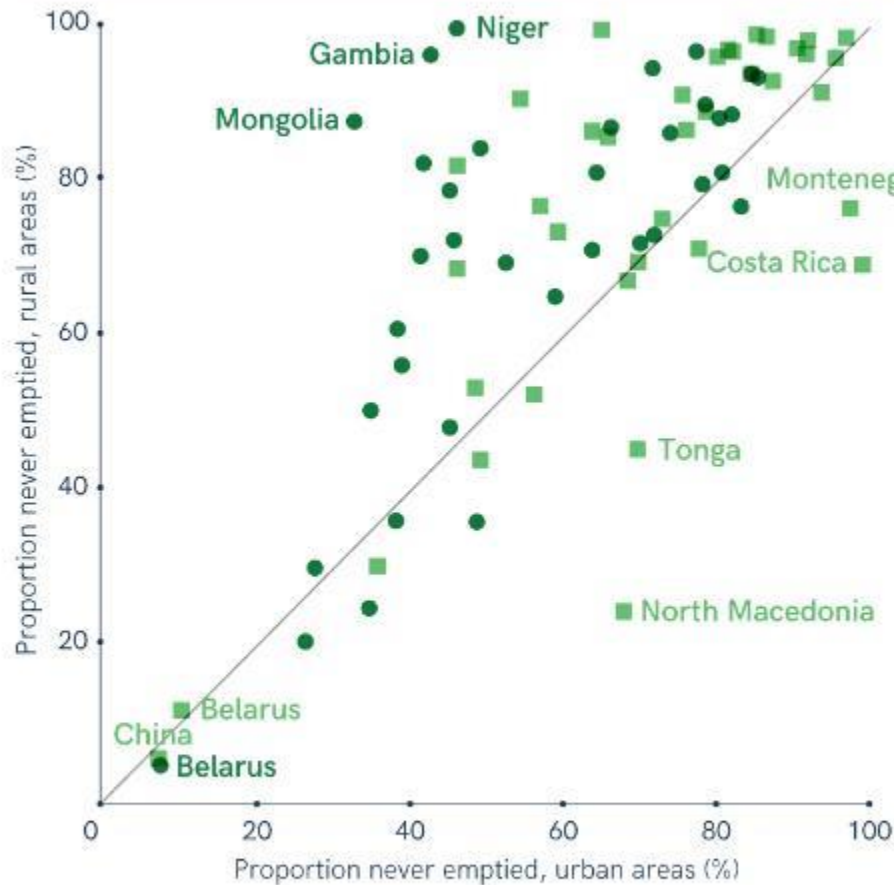
FIGURE 64 Proportion of population emptying on-site sanitation facilities where faecal sludge was disposed of in-situ and removed off-site, selected MICS surveys, 2017-2022

Never emptied, but contained



A) NEVER EMPTIED

B) EMPTIED AND REMOVED OFF-SITE



- Septic tanks
- Improved latrines and other

FIGURE 58

Proportion of septic tanks and improved latrines that have never been emptied (A) or have been emptied and waste removed off-site (B), in urban and rural areas, 2017-2020

The distribution of safely managed on-site and sewered sanitation varies widely by region

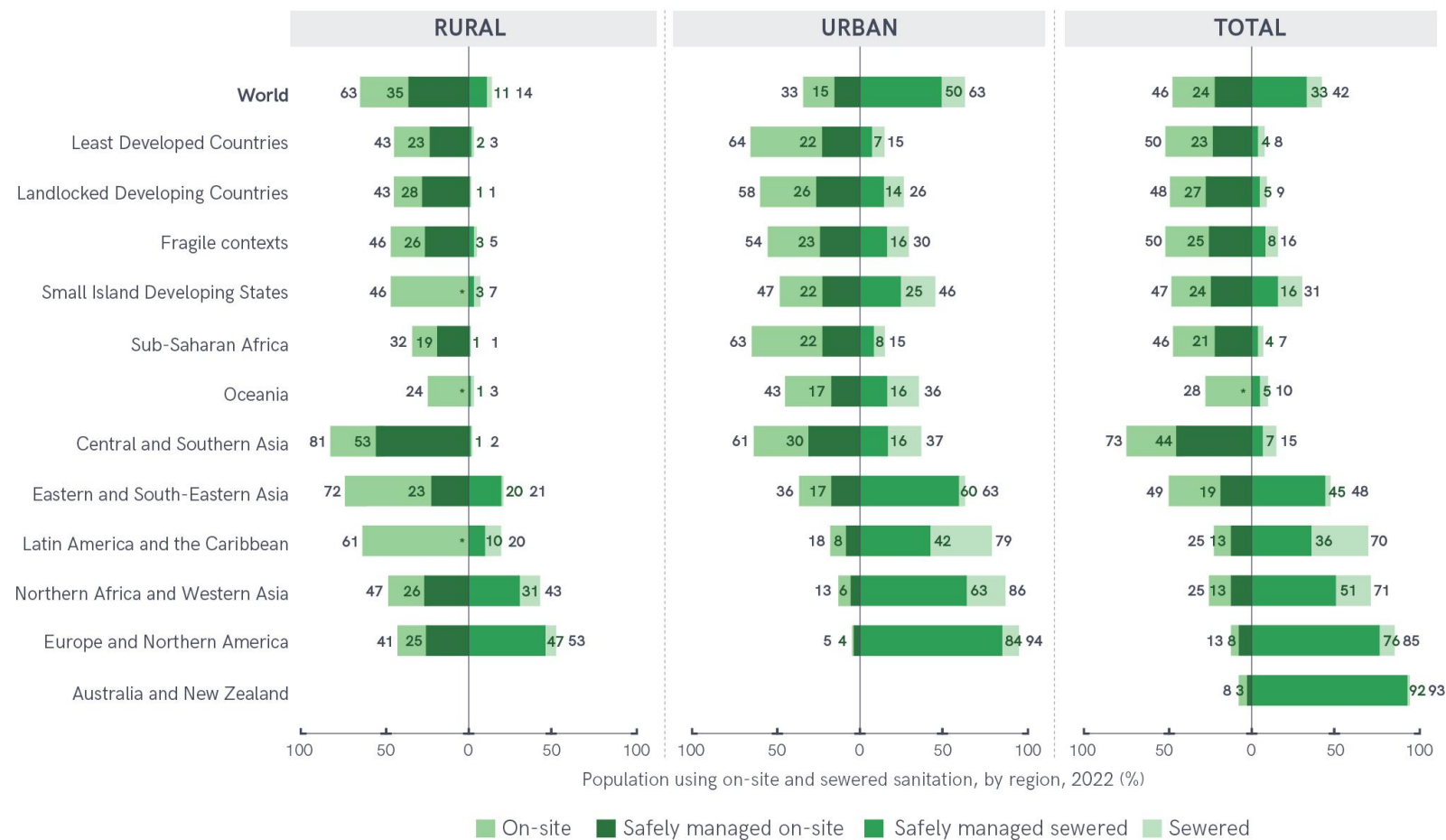


FIGURE 62 Proportion of the population using on-site and sewered sanitation facilities that are safely managed, 2022 (%)

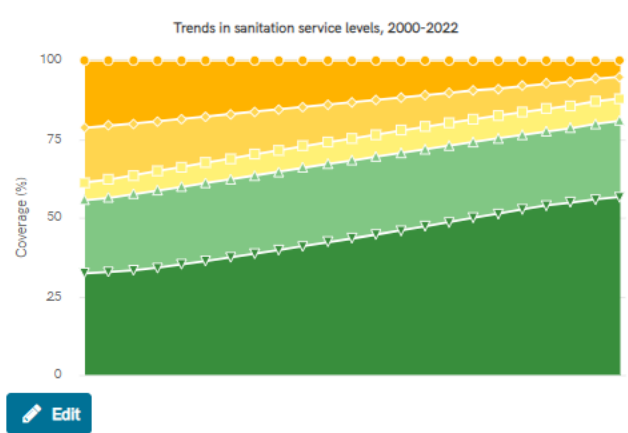
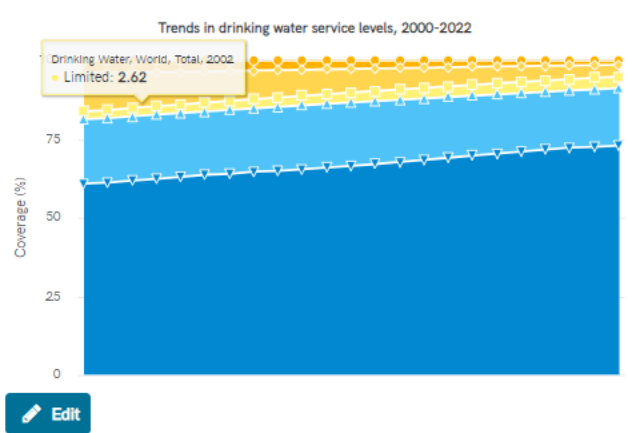
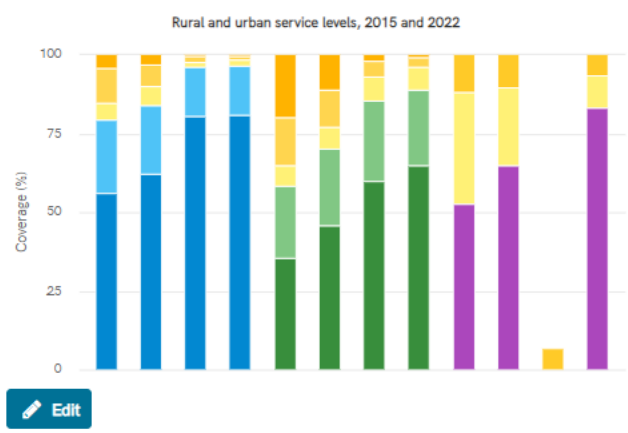
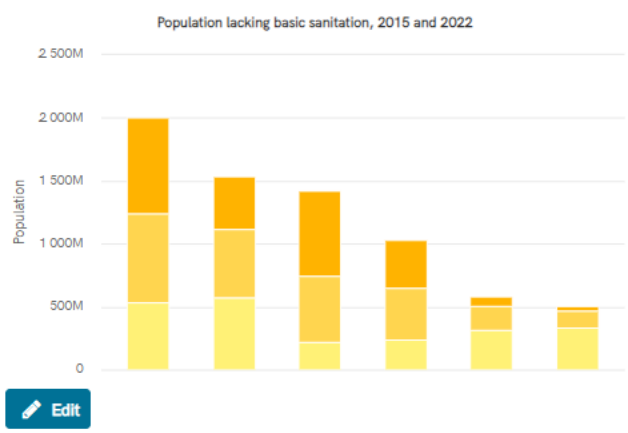
World

World

[View data table](#) [Download data](#)

[Create new chart](#)

[Summary](#) [Drinking Water](#) [Sanitation](#) [Hygiene](#)

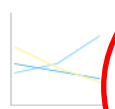


HOUSEHOLDS

Select a chart type



Ladder



Inequality



Rank



Trend



Progress

Rank Chart

Geography Region Type

Rank countries World

Measure

- Coverage Population
- Percentage point change (2000 - 2022)
- Wealth inequalities (% pt difference richest vs poorest)
- Subnational inequalities (% pt difference highest vs lowest)
- Drinking Water Sanitation Hygiene

Inequality

- Total Rural Urban
- Poorest Poor Middle Rich Richest

Ladder Type

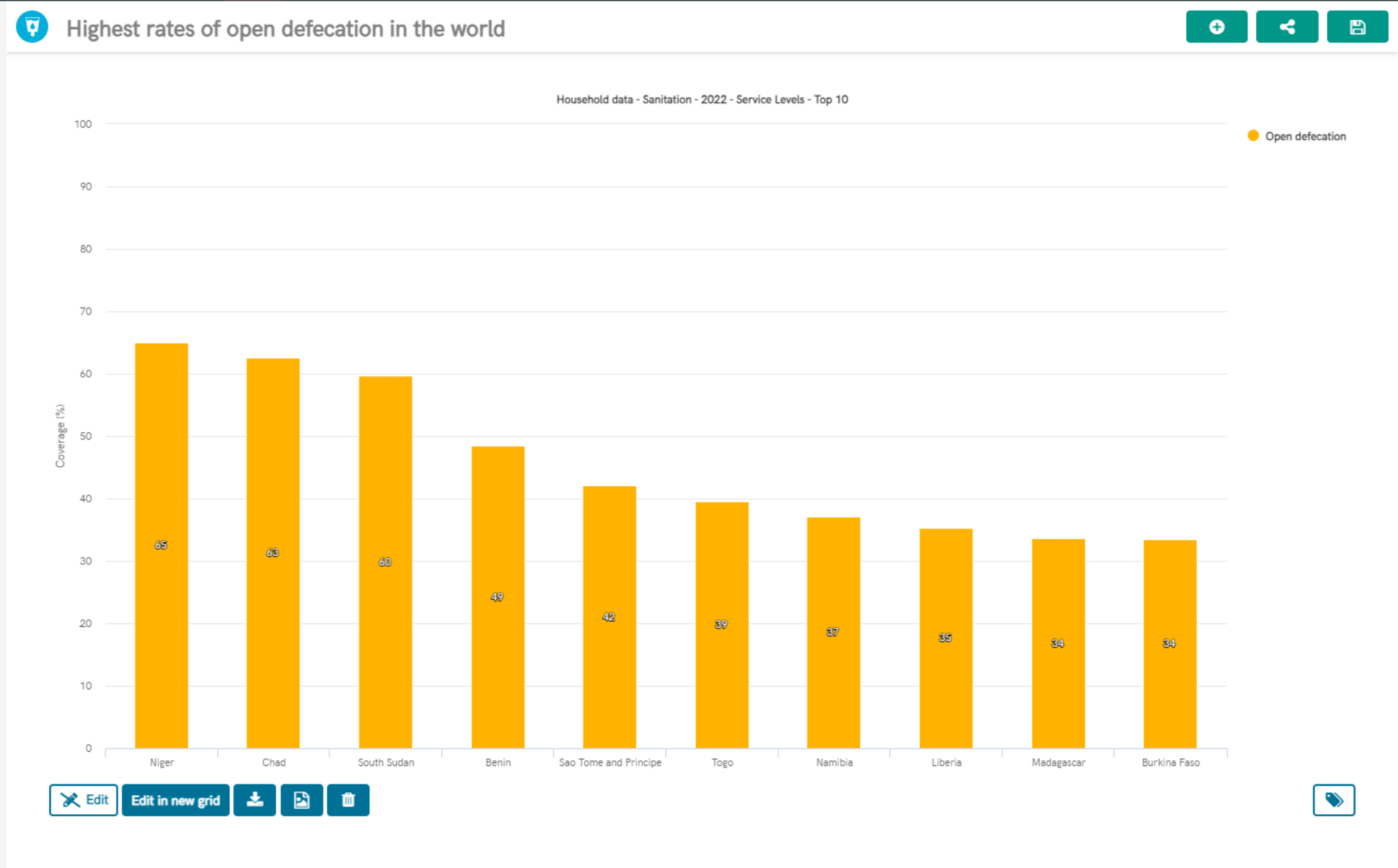
- Analyse by service level
- Analyse by facility type
- Analyse by safely managed criteria
- Open defecation
- Unimproved
- Limited
- Basic
- Safely managed
- Latrines
- Septic
- Sewer
- Disposed insitu
- Faecal sludge treated
- Sewage treated

Time period

2022

Display

- Top 10 Bottom 10 All



Exercise 2

- Which low-income country has the highest level of safely managed sanitation services in the world?
 - How much of this comes from wastewater treated offsite, faecal sludge treated offsite, and onsite sanitation treated in situ?

Rank Chart

Geography Region Type Region

Rank ... Income Low income

Measure

- Coverage Population
- Percentage point change (2000 - 2022)
- Wealth inequalities (% pt difference richest vs poorest)
- Subnational inequalities (% pt difference highest vs lowest)
- Drinking Water Sanitation Hygiene

Inequality

- Total Rural Urban
- Poorest Poor Middle Rich Richest

Ladder Type

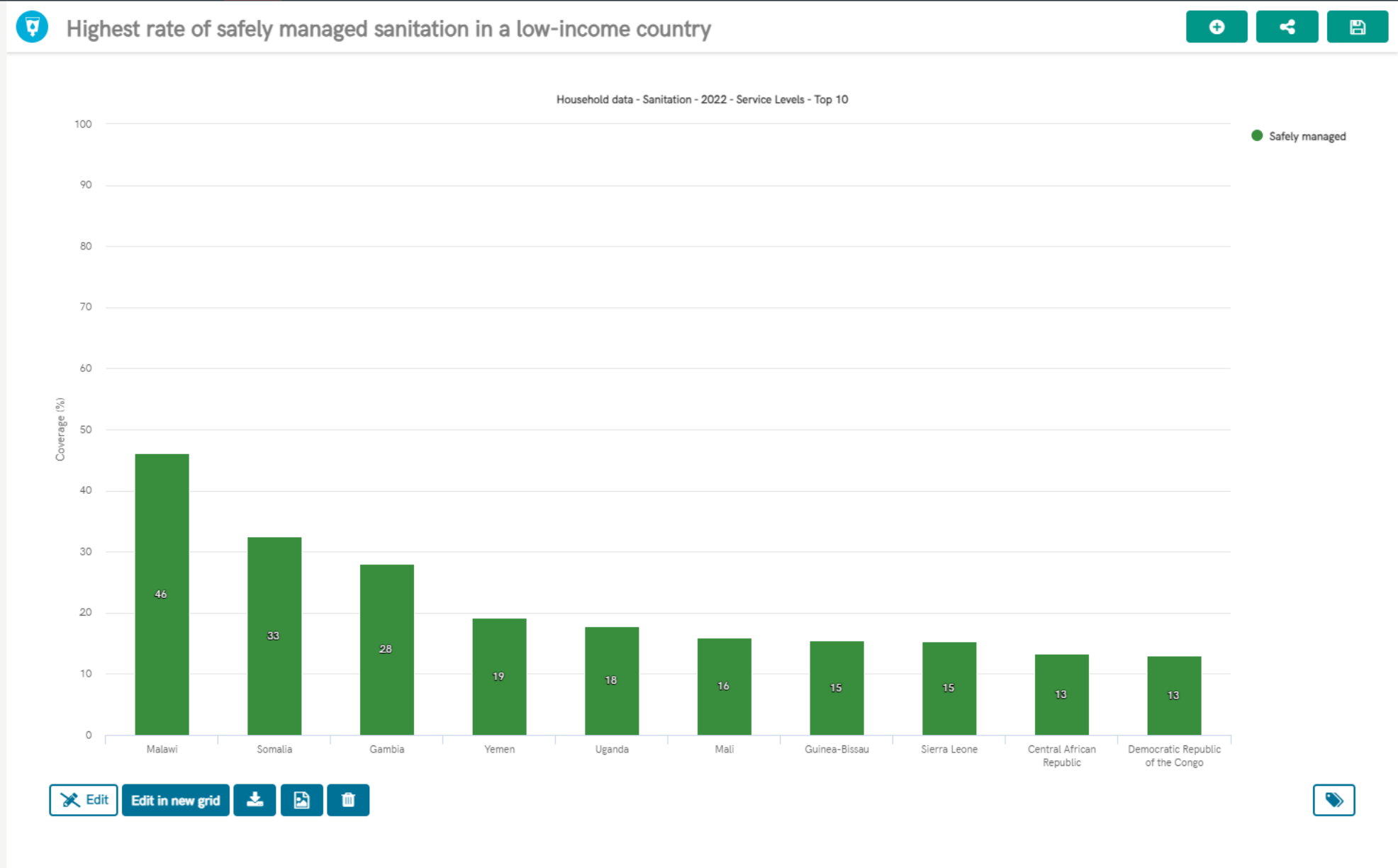
- Analyse by service level
- Open defecation
- Unimproved
- Limited
- Basic
- Safely managed
- Analyse by facility type
- Latrines
- Septic
- Sewer
- Analyse by safely managed criteria
- Disposed insitu
- Faecal sludge treated
- Sewage treated

Time period

2022

Display

- Top 10
- Bottom 10
- All



Rank Chart

Geography Region Type Region

Rank ... Income Low income

Measure

- Coverage Population
- Percentage point change (2000 - 2022)
- Wealth inequalities (% pt difference richest vs poorest)
- Subnational inequalities (% pt difference highest vs lowest)
- Drinking Water Sanitation Hygiene

Inequality

- Total Rural Urban
- Poorest Poor Middle Rich Richest

Ladder Type

- Analyse by service level
- Analyse by facility type
- Analyse by safely managed criteria

- Open defecation Latrines Disposed insitu
- Unimproved Septic Faecal sludge treated
- Limited Sewer Sewage treated
- Basic
- Safely managed

Time period

2022

Display

- Top 10 Bottom 10 All



6.2.1b Hygiene

| SERVICE LEVEL | DEFINITION |
|---------------|--|
| BASIC | Availability of a handwashing facility with soap and water at home |
| LIMITED | Availability of a handwashing facility lacking soap and/or water at home |
| NO FACILITY | No handwashing facility at home |

FIGURE 68 SDG service ladder for hygiene

Note: Handwashing facilities may be located within the dwelling, yard or plot. They 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.

84 countries had estimates for basic hygiene services in 2022

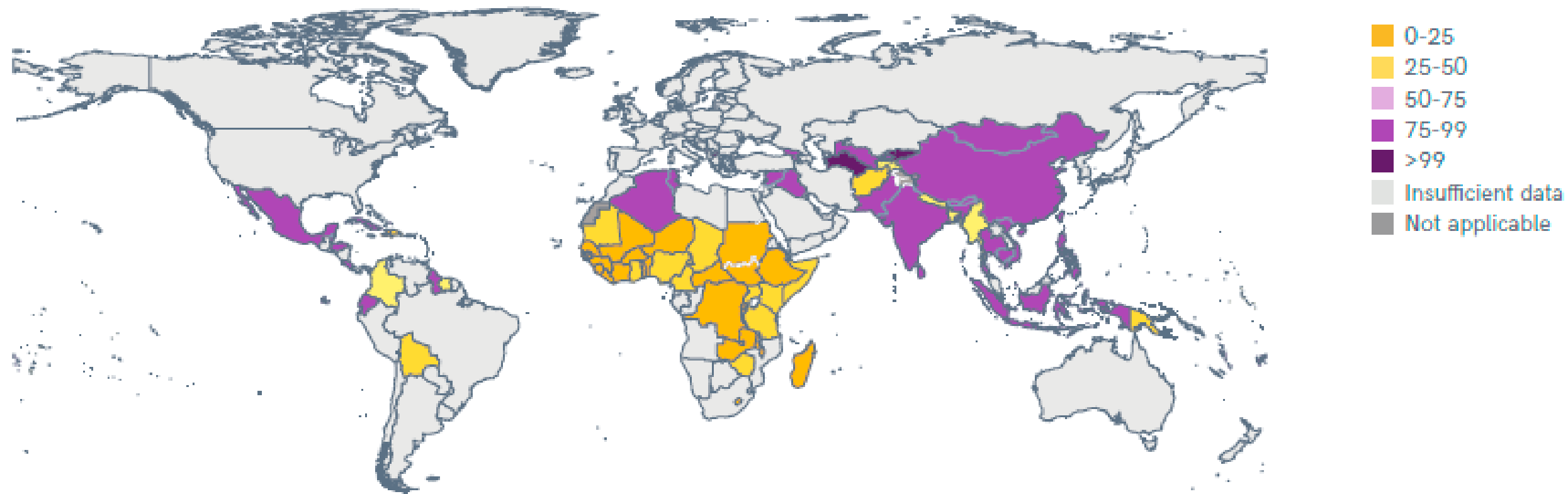
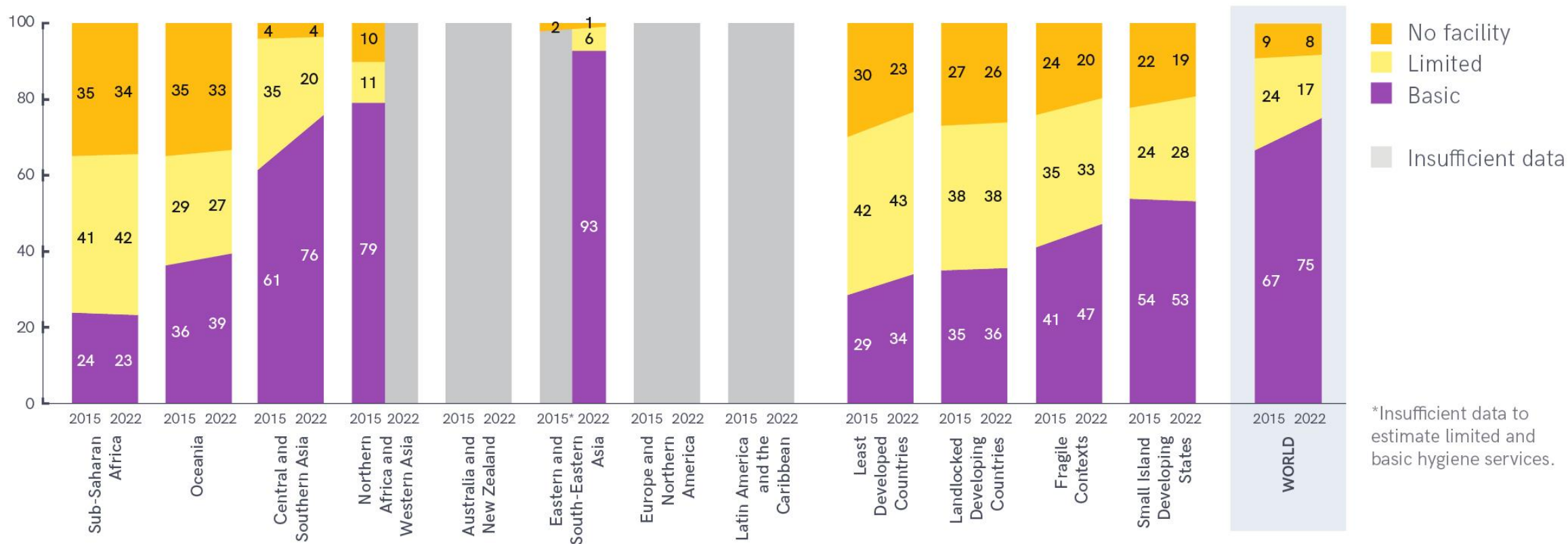


FIGURE 7 Proportion of population with basic hygiene services, 2022 (%)

Progress on household hygiene services 2015-2022



*Insufficient data to estimate limited and basic hygiene services.

FIGURE 6 Global and regional hygiene coverage, 2022 (%)

Gender and hygiene

Studies in high-income countries find that women are more likely than men to wash their hands

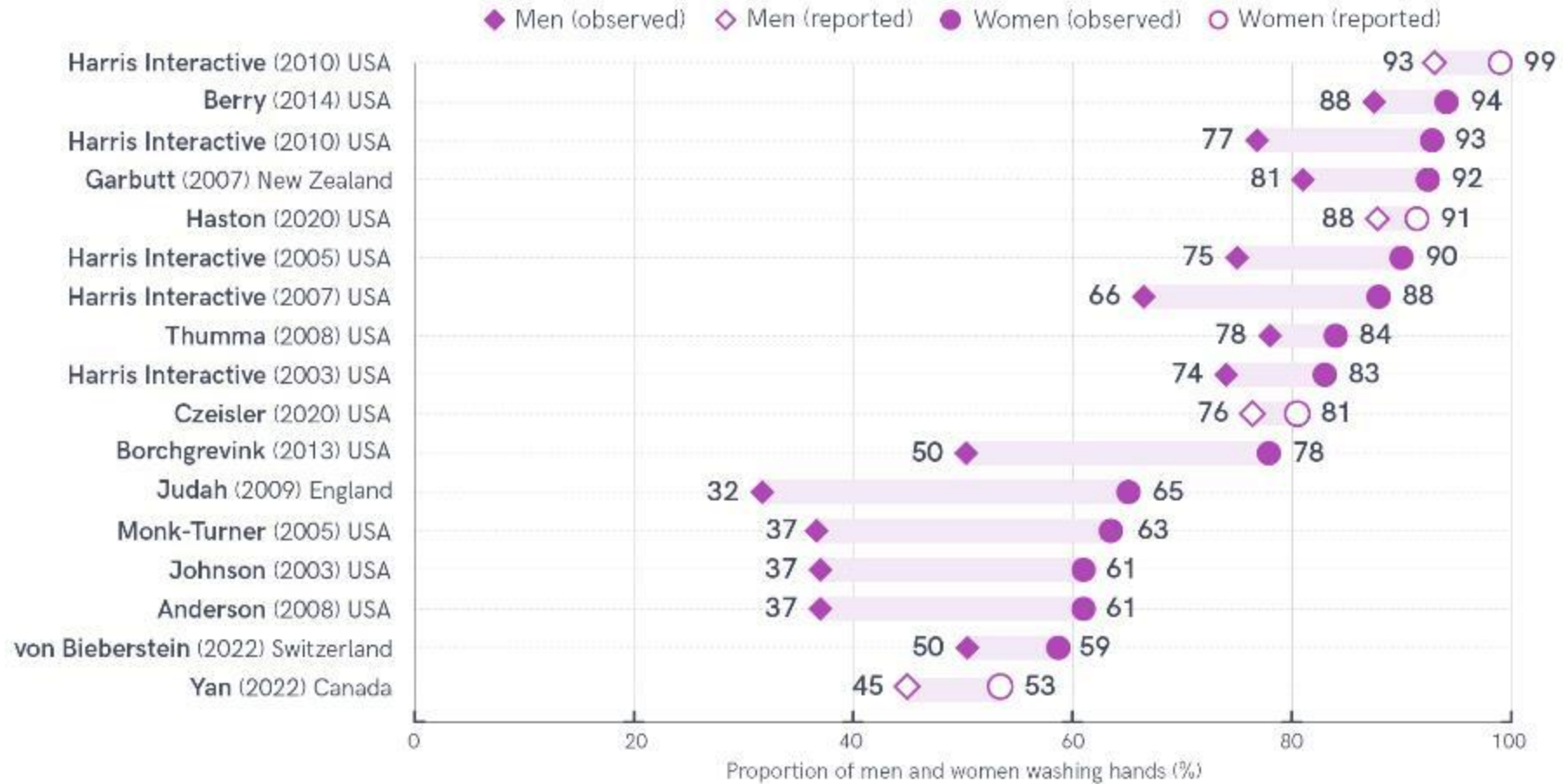


FIGURE 72 Proportion of women and men observed or reporting washing their hands with soap and water, selected studies, 2003-2022 (%)



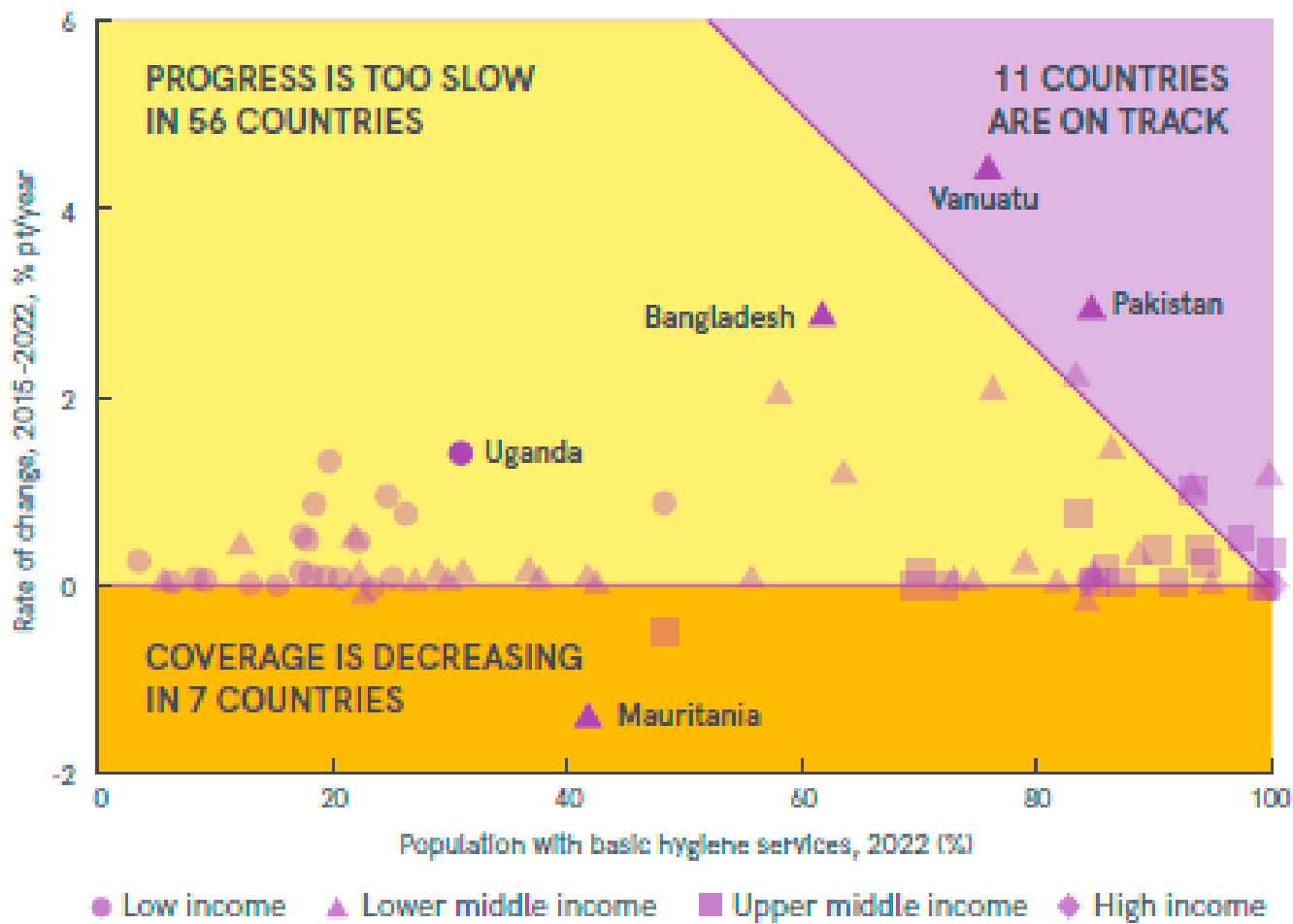


FIGURE 74 Progress on basic hygiene services among countries with data on trends, 2015-2022, by income group



Downloads index

| | | |
|--|---|---|
|  Household |  School |  Health Care Facilities |
|--|---|---|

| | | | |
|--------------------------------------|---|------------------------------|------------------------------|
| World | World file | World file | World file |
| Regions | Regions file | Regions file | Regions file |
| [+] Australia and New Zealand (2) | | | |
| [-] Central and Southern Asia (14) | | | |
| Afghanistan | Country file Inequalities | Country file | Country file |
| Bangladesh | Country file Inequalities | Country file | Country file |
| Bhutan | Country file Inequalities | Country file | Country file |
| India | Country file Inequalities | Country file | Country file |
| Iran (Islamic Republic of) | Country file | Country file | Country file |
| Kazakhstan | Country file | | |

f
X



Joint Monitoring Programme for Water Supply, Sanitation and Hygiene

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

Updated April 2021

Follow the links below to find the following information:

Please make sure to click the "Enable Editing" and the "Enable Content" buttons when opening the file, if they appear

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:

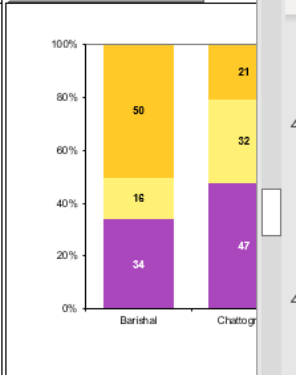
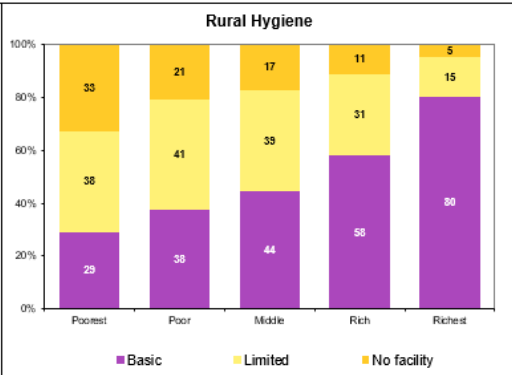
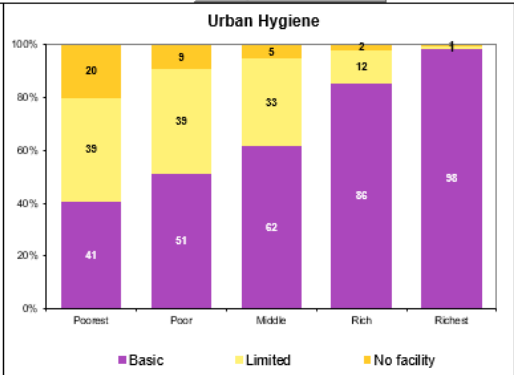
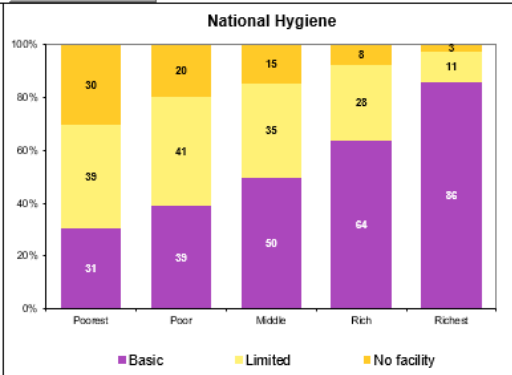
- [DHS04](#)
- [MICS06](#)
- [DHS07](#)
- [DHS11](#)
- [MICS13](#)
- [DHS14](#)
- [DHS18](#)
- [MICS19](#)



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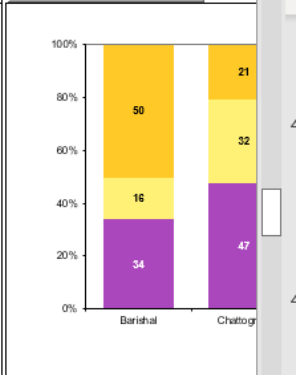
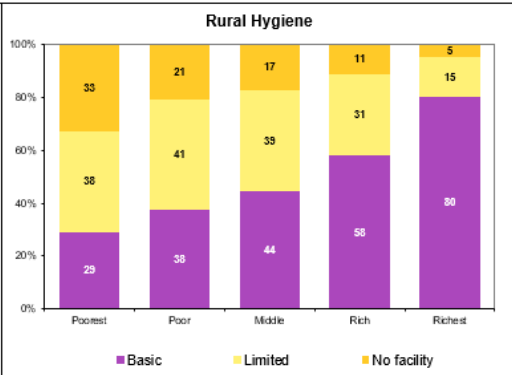
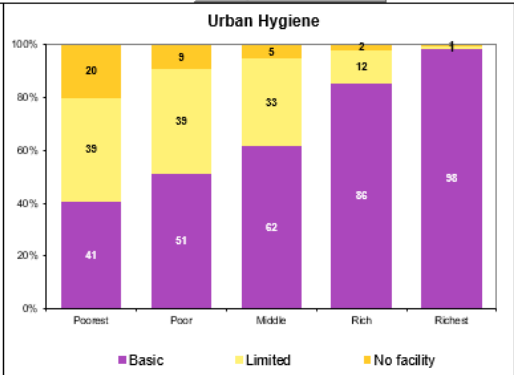
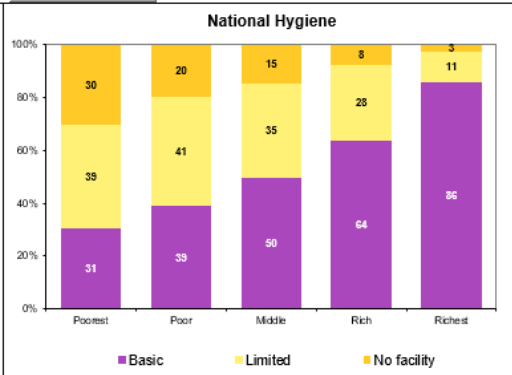
A B C D E F G H I J K L M N O P Q R S

Bangladesh 2019
Access to hygiene facilities by wealth quintile and sub-national region
 Notes:
 WHO/UNICEF JMP customised wealth index excludes water, sanitation and hygiene assets.
 Survey used for analysis: **MICS19**



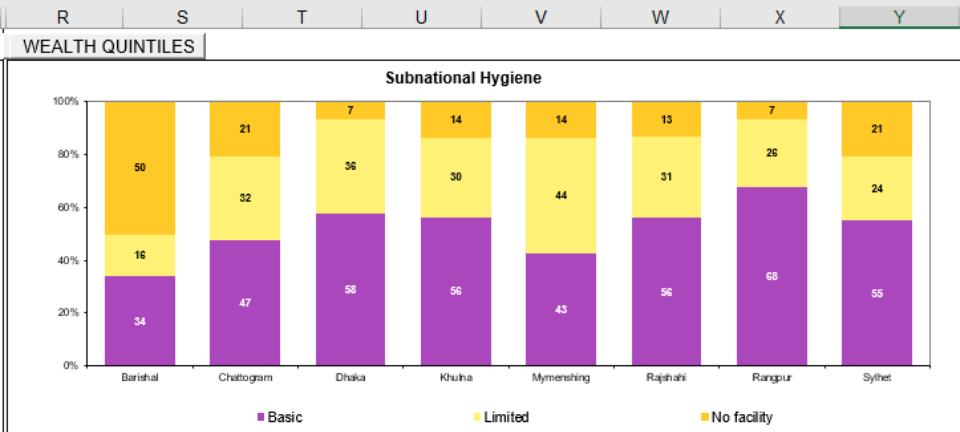
| Access to handwashing | | NATIONAL wealth index quintile | | | | | URBAN wealth index quintile | | | | | RURAL wealth index quintile | | | | | SUB-REGIONS: | |
|---|---|--------------------------------|------|--------|------|---------|-----------------------------|------|--------|------|---------|-----------------------------|------|--------|------|---------|--------------|------------|
| Weighted percentage (used in graphs) | | Poorest | Poor | Middle | Rich | Richest | Poorest | Poor | Middle | Rich | Richest | Poorest | Poor | Middle | Rich | Richest | Barishal | Chattogram |
| Hygiene ladder | Basic | 30.6 | 38.9 | 49.9 | 63.7 | 85.8 | 40.7 | 51.2 | 61.8 | 85.6 | 98.3 | 29.2 | 37.8 | 44.4 | 58.1 | 80.4 | 33.9 | 47.4 |
| | Limited | 39.1 | 41.3 | 35.3 | 28.4 | 11.4 | 39.2 | 39.5 | 33.1 | 12.4 | 1.0 | 38.2 | 41.3 | 38.6 | 30.9 | 14.9 | 15.9 | 31.8 |
| | No facility | 30.4 | 19.9 | 14.8 | 7.8 | 2.8 | 20.1 | 9.4 | 5.2 | 2.0 | 0.7 | 32.6 | 21.0 | 17.1 | 11.0 | 4.7 | 50.2 | 20.8 |
| Observed handwashing place | Fixed | 81.1 | 86.9 | 86.9 | 89.4 | 96.3 | 84.3 | 88.9 | 92.4 | 97.6 | 99.4 | 79.8 | 87.4 | 87.0 | 87.4 | 92.8 | 76.9 | 83.7 |
| | Mobile | 18.9 | 13.1 | 13.1 | 10.6 | 3.7 | 15.7 | 11.1 | 7.6 | 2.4 | 0.6 | 20.2 | 12.6 | 13.0 | 12.6 | 7.2 | 23.1 | 16.3 |
| Water / Soap | Water and soap | 41.4 | 47.1 | 57.4 | 68.4 | 88.1 | 49.3 | 55.9 | 64.7 | 87.2 | 99.0 | 40.5 | 46.3 | 52.2 | 64.2 | 84.0 | 67.6 | 57.7 |
| | Water only | 51.0 | 48.3 | 38.5 | 29.0 | 11.4 | 45.5 | 41.7 | 33.6 | 12.4 | 1.0 | 51.1 | 49.1 | 43.2 | 32.3 | 14.8 | 30.8 | 34.3 |
| | Soap only | 1.9 | 1.7 | 2.1 | 1.6 | 0.3 | 2.0 | 1.4 | 1.0 | 0.2 | 0.0 | 2.0 | 1.5 | 2.3 | 2.0 | 0.8 | 1.0 | 4.3 |
| Place where household members most often wash their hands | Neither | 5.7 | 2.9 | 2.0 | 1.0 | 0.2 | 3.3 | 1.0 | 0.7 | 0.2 | 0.0 | 6.3 | 3.1 | 2.3 | 1.5 | 0.5 | 0.6 | 3.7 |
| | OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 2.4 | 2.7 | 4.7 | 15.2 | 64.4 | 3.6 | 12.7 | 31.2 | 71.3 | 94.8 | 2.4 | 2.4 | 3.5 | 7.1 | 39.5 | 10.1 | 24.4 |
| | OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 57.3 | 68.9 | 70.8 | 67.9 | 29.4 | 65.9 | 68.5 | 57.1 | 24.4 | 3.9 | 54.8 | 68.7 | 70.3 | 71.8 | 49.3 | 28.2 | 44.3 |
| | OBSERVED: MOBILE OBJECT (BUCKET / JUG / KETTLE) | 13.9 | 10.8 | 11.4 | 9.9 | 3.6 | 13.0 | 10.1 | 7.2 | 2.4 | 0.6 | 14.5 | 10.3 | 11.0 | 11.4 | 6.9 | 11.5 | 13.3 |
| | NOT OBSERVED: NO HANDWASHING PLACE IN DWELLING | 26.1 | 17.4 | 13.0 | 6.9 | 2.6 | 17.3 | 8.5 | 4.5 | 1.9 | 0.7 | 27.9 | 18.4 | 15.1 | 9.6 | 4.3 | 49.6 | 17.7 |
| NOT OBSERVED: NO PERMISSION TO SEE | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | |
| OTHER REASON | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.2 | |

Bangladesh 2019
Access to hygiene facilities by wealth quintile and sub-national region
 Notes:
 WHO/UNICEF JMP customised wealth index excludes water, sanitation and hygiene assets.
 Survey used for analysis: **MICS19**



| Access to handwashing | | NATIONAL wealth index quintile | | | | | URBAN wealth index quintile | | | | | RURAL wealth index quintile | | | | | SUB-REGIONS: | |
|---|---|--------------------------------|------|--------|------|---------|-----------------------------|------|--------|------|---------|-----------------------------|------|--------|------|---------|--------------|------------|
| Weighted percentage (used in graphs) | | Poorest | Poor | Middle | Rich | Richest | Poorest | Poor | Middle | Rich | Richest | Poorest | Poor | Middle | Rich | Richest | Barishal | Chattogram |
| Hygiene ladder | Basic | 30.6 | 38.9 | 49.9 | 63.7 | 85.8 | 40.7 | 51.2 | 61.8 | 85.6 | 98.3 | 29.2 | 37.8 | 44.4 | 58.1 | 80.4 | 33.9 | 47.4 |
| | Limited | 39.1 | 41.3 | 35.3 | 28.4 | 11.4 | 39.2 | 39.5 | 33.1 | 12.4 | 1.0 | 38.2 | 41.3 | 38.6 | 30.9 | 14.9 | 15.9 | 31.8 |
| | No facility | 30.4 | 19.9 | 14.8 | 7.8 | 2.8 | 20.1 | 9.4 | 5.2 | 2.0 | 0.7 | 32.6 | 21.0 | 17.1 | 11.0 | 4.7 | 50.2 | 20.8 |
| Observed handwashing place | Fixed | 81.1 | 86.9 | 86.9 | 89.4 | 96.3 | 84.3 | 88.9 | 92.4 | 97.6 | 99.4 | 79.8 | 87.4 | 87.0 | 87.4 | 92.8 | 76.9 | 83.7 |
| | Mobile | 18.9 | 13.1 | 13.1 | 10.6 | 3.7 | 15.7 | 11.1 | 7.6 | 2.4 | 0.6 | 20.2 | 12.6 | 13.0 | 12.6 | 7.2 | 23.1 | 16.3 |
| Water / Soap | Water and soap | 41.4 | 47.1 | 57.4 | 68.4 | 88.1 | 49.3 | 55.9 | 64.7 | 87.2 | 99.0 | 40.5 | 46.3 | 52.2 | 64.2 | 84.0 | 67.6 | 57.7 |
| | Water only | 51.0 | 48.3 | 38.5 | 29.0 | 11.4 | 45.5 | 41.7 | 33.6 | 12.4 | 1.0 | 51.1 | 49.1 | 43.2 | 32.3 | 14.8 | 30.8 | 34.3 |
| | Soap only | 1.9 | 4.7 | 2.1 | 1.6 | 0.3 | 2.0 | 1.4 | 1.0 | 0.2 | 0.0 | 2.0 | 1.5 | 2.3 | 2.0 | 0.8 | 1.0 | 4.3 |
| Place where household members most often wash their hands | Neither | 5.7 | 2.9 | 2.0 | 1.0 | 0.2 | 3.3 | 1.0 | 0.7 | 0.2 | 0.0 | 6.3 | 3.1 | 2.3 | 1.5 | 0.5 | 0.6 | 3.7 |
| | OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 2.4 | 2.7 | 4.7 | 15.2 | 64.4 | 3.6 | 12.7 | 31.2 | 71.3 | 94.8 | 2.4 | 2.4 | 3.5 | 7.1 | 39.5 | 10.1 | 24.4 |
| | OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 57.3 | 68.9 | 70.8 | 67.9 | 29.4 | 65.9 | 68.5 | 57.1 | 24.4 | 3.9 | 54.8 | 68.7 | 70.3 | 71.8 | 49.3 | 28.2 | 44.3 |
| | OBSERVED: MOBILE OBJECT (BUCKET / JUG / KETTLE) | 13.9 | 10.8 | 11.4 | 9.9 | 3.6 | 13.0 | 10.1 | 7.2 | 2.4 | 0.6 | 14.5 | 10.3 | 11.0 | 11.4 | 6.9 | 11.5 | 13.3 |
| | NOT OBSERVED: NO HANDWASHING PLACE IN DWELLING | 26.1 | 17.4 | 13.0 | 6.9 | 2.6 | 17.3 | 8.5 | 4.5 | 1.9 | 0.7 | 27.9 | 18.4 | 15.1 | 9.6 | 4.3 | 49.6 | 17.7 |
| NOT OBSERVED: NO PERMISSION TO SEE | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | |
| OTHER REASON | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.2 | |

Bangladesh
2019
Access to hygiene facilities
by wealth quintile and sub-national region
 Notes:
 WHO/UNICEF JMP customised wealth index excludes water, sanitation and hygiene assets.
 Survey used for analysis: **MICS19**



Access to handwashing

Weighted percentage (used in graphs)

| Category | Sub-region | Barishal | Chattogram | Dhaka | Khulna | Mymensingh | Rajshahi | Rangpur | Sylhet |
|---|---|----------|------------|-------|--------|------------|----------|---------|--------|
| Hygiene ladder | Basic | 33.9 | 47.4 | 57.6 | 56.4 | 42.8 | 56.1 | 67.7 | 55.0 |
| | Limited | 15.9 | 31.8 | 35.7 | 29.9 | 43.6 | 30.6 | 25.8 | 24.3 |
| | No facility | 50.2 | 20.8 | 6.7 | 13.7 | 13.6 | 13.3 | 6.5 | 20.8 |
| Observed handwashing place | Fixed | 76.9 | 83.7 | 91.6 | 86.4 | 86.0 | 94.1 | 97.2 | 75.2 |
| | Mobile | 23.1 | 16.3 | 8.4 | 13.6 | 14.0 | 5.9 | 2.8 | 24.8 |
| | Water and soap | 67.6 | 57.7 | 61.1 | 64.0 | 48.4 | 63.9 | 69.8 | 67.6 |
| Water / Soap | Water only | 30.8 | 34.3 | 37.2 | 32.6 | 48.8 | 34.3 | 25.2 | 29.2 |
| | Soap only | 1.0 | 4.3 | 0.6 | 1.3 | 0.5 | 0.7 | 1.4 | 0.7 |
| | Neither | 0.6 | 3.7 | 1.1 | 2.0 | 2.4 | 1.1 | 3.7 | 2.5 |
| | OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 10.1 | 24.4 | 28.3 | 12.6 | 7.7 | 11.4 | 4.4 | 22.7 |
| Place where household members most often wash their hands | OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 28.2 | 44.3 | 58.1 | 63.5 | 68.5 | 71.1 | 89.7 | 38.4 |
| | OBSERVED: MOBILE OBJECT (BUCKET / JUG / KETTLE) | 11.5 | 13.3 | 7.9 | 11.9 | 12.4 | 5.1 | 2.7 | 20.1 |
| | NOT OBSERVED: NO HANDWASHING PLACE IN DWELLING | 49.6 | 17.7 | 5.7 | 11.9 | 11.4 | 12.3 | 3.0 | 18.7 |
| | NOT OBSERVED: NO PERMISSION TO SEE | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 |
| OTHER REASON | 0.5 | 0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | |

SUB-REGIONS:

| Sub-region | Barishal | Chattogram | Dhaka | Khulna | Mymensingh | Rajshahi | Rangpur | Sylhet |
|---|----------|------------|-------|--------|------------|----------|---------|--------|
| Basic | 33.9 | 47.4 | 57.6 | 56.4 | 42.8 | 56.1 | 67.7 | 55.0 |
| Limited | 15.9 | 31.8 | 35.7 | 29.9 | 43.6 | 30.6 | 25.8 | 24.3 |
| No facility | 50.2 | 20.8 | 6.7 | 13.7 | 13.6 | 13.3 | 6.5 | 20.8 |
| Fixed | 76.9 | 83.7 | 91.6 | 86.4 | 86.0 | 94.1 | 97.2 | 75.2 |
| Mobile | 23.1 | 16.3 | 8.4 | 13.6 | 14.0 | 5.9 | 2.8 | 24.8 |
| Water and soap | 67.6 | 57.7 | 61.1 | 64.0 | 48.4 | 63.9 | 69.8 | 67.6 |
| Water only | 30.8 | 34.3 | 37.2 | 32.6 | 48.8 | 34.3 | 25.2 | 29.2 |
| Soap only | 1.0 | 4.3 | 0.6 | 1.3 | 0.5 | 0.7 | 1.4 | 0.7 |
| Neither | 0.6 | 3.7 | 1.1 | 2.0 | 2.4 | 1.1 | 3.7 | 2.5 |
| OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 10.1 | 24.4 | 28.3 | 12.6 | 7.7 | 11.4 | 4.4 | 22.7 |
| OBSERVED: FIXED FACILITY OBSERVED (SINK / TAP) | 28.2 | 44.3 | 58.1 | 63.5 | 68.5 | 71.1 | 89.7 | 38.4 |
| OBSERVED: MOBILE OBJECT (BUCKET / JUG / KETTLE) | 11.5 | 13.3 | 7.9 | 11.9 | 12.4 | 5.1 | 2.7 | 20.1 |
| NOT OBSERVED: NO HANDWASHING PLACE IN DWELLING | 49.6 | 17.7 | 5.7 | 11.9 | 11.4 | 12.3 | 3.0 | 18.7 |
| NOT OBSERVED: NO PERMISSION TO SEE | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 |
| OTHER REASON | 0.5 | 0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 |

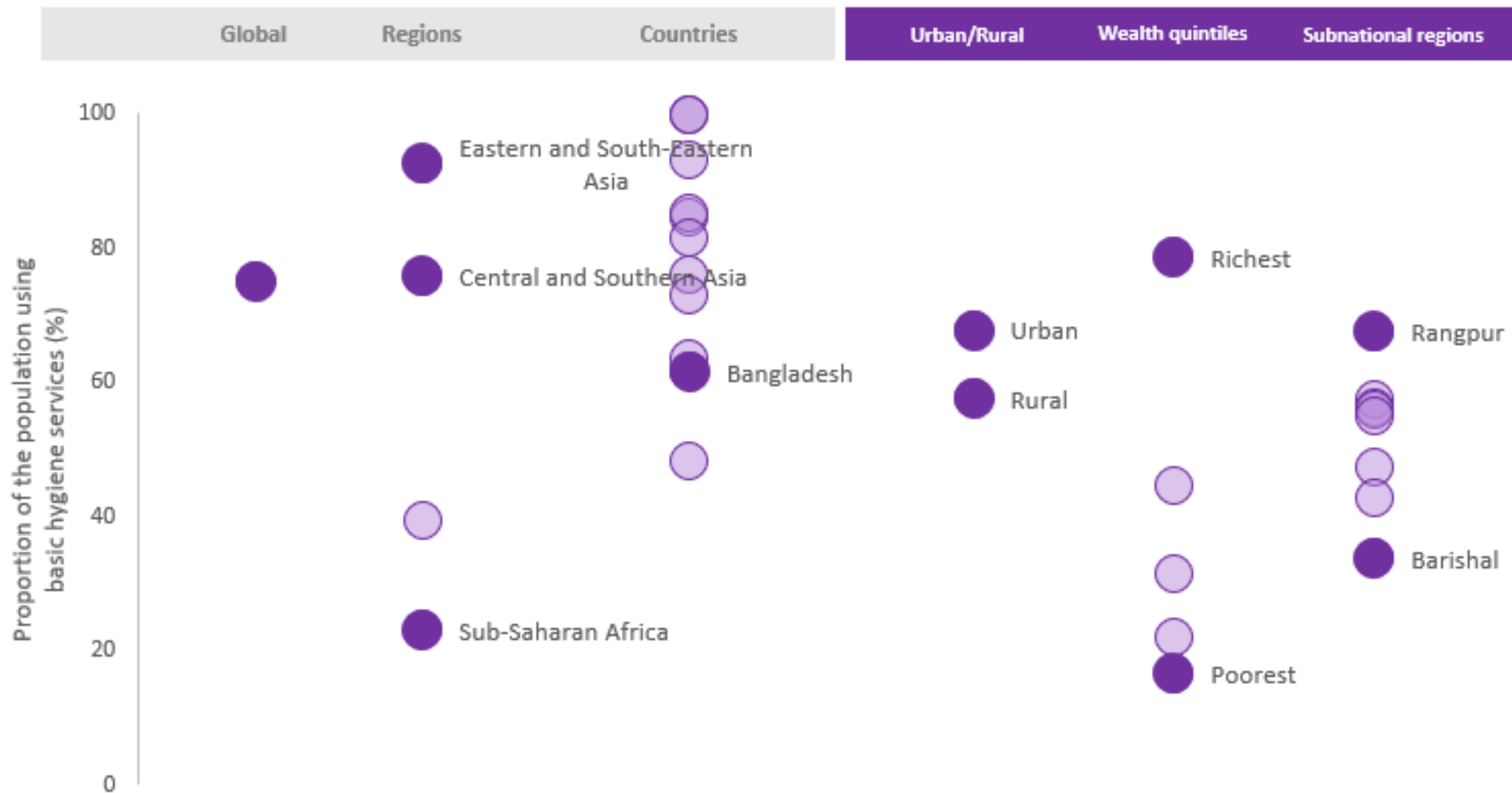



Figure H9: Inequalities in use of basic hygiene services in Bangladesh (%)



*Target 6.2: 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*

<https://washdata.org/monitoring/menstrual-health>

COMMENTARY



Menstrual health: a definition for policy, practice, and research

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Janie Hampton ^{e,4}, Gerda Larsson ^{f,1}, Venkatraman Chandra-Mouli ^{g,8},
Marina Plesons ^{h,1}, Thérèse Mahon ^{i,1}

- ^a Research Fellow, Maternal, Child and Adolescent Health Program, Burnet Institute, Melbourne, Australia; Adjunct Research Associate, Department of Environmental Health and Engineering, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA
- ^b Lecturer in Human Rights, Institute for the Study of Human Rights, Columbia University, New York, NY, USA
- ^c Professor, Women's, Gender, and Sexuality Studies, College of Liberal Arts, Department of Women's, Gender, and Sexuality Studies, University of Massachusetts Boston, Boston, MA, USA
- ^d Founder & Executive Director, Menstrual Health Hub / MH Hub, Berlin, Germany
- ^e Co-Founder, Menstrual Cup Coalition, Nairobi, Kenya
- ^f Co-Founder and Managing Director, The Case for Her, Stockholm, Sweden
- ^g Scientist, UNDP-UNFPA-UNICEF-WHO-World Bank Special Programme of Research, Development and Research Training in Human Reproduction (HRP), Department of Sexual and Reproductive Health and Research, World Health Organization, Geneva, Switzerland
- ^h Consultant, UNDP-UNFPA-UNICEF-WHO-World Bank Special Programme of Research, Development and Research Training in Human Reproduction (HRP), Department of Sexual and Reproductive Health and Research, World Health Organization, Geneva, Switzerland
- ⁱ Regional Programme Manager South Asia, WaterAid, London, UK. Correspondence: theresemahon@wateraid.org

Abstract: The term "menstrual health" has seen increased use across advocacy, programming, policy, and research, but has lacked a consistent, self-contained definition. As a rapidly growing field of research and practice a comprehensive definition is needed to (1) ensure menstrual health is prioritised as a unified objective in global health, development, national policy, and funding frameworks, (2) elucidate the breadth of menstrual health, even where different needs may be prioritised in different sectors, and (3) facilitate a shared vocabulary through which stakeholders can communicate across silos to share learning. To achieve these aims, we present a definition of menstrual health developed by the Terminology Action Group of the Global Menstrual Collective. We describe the definition development process, drawing on existing research and terminology, related definitions of health, and consultation with a broad set of stakeholders. Further, we provide elaboration, based on current evidence, to support interpretation of the definition. DOI: 10.1080/26410397.2021.1911618

Keywords: gender equality, health, menstrual cycle, menstrual health, human rights

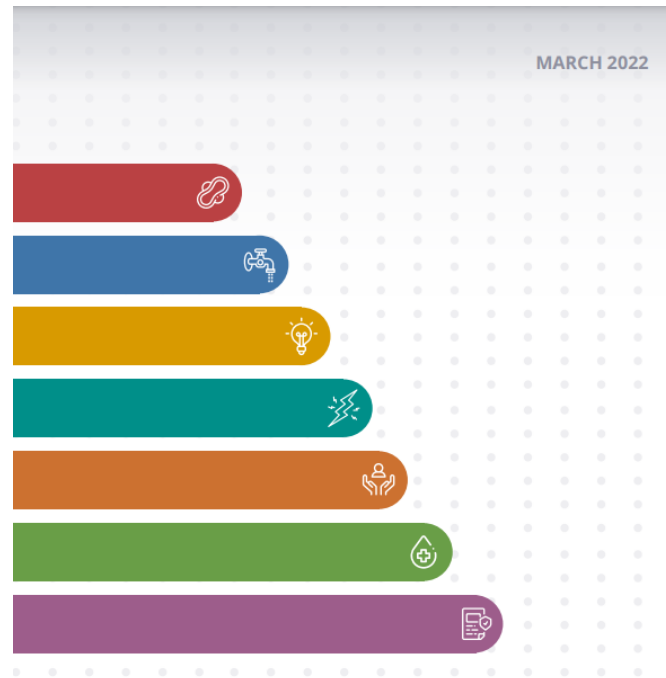
Introduction

Menstrual health is integral to improving global population health,¹ achieving the Sustainable Development Goals, and realising gender equality and human rights.^{2,3} Although the past decade has seen growing awareness of menstrual-related challenges,^{4,5} increased multi-sectoral investment is needed to comprehensively address the needs of all people who menstruate.

Research and practice have developed a nuanced understanding of menstrual experiences, and their intersections with physical, mental, and social health.^{6,7} Varied terminologies have evolved, but increasingly actors are using menstrual health to evoke a holistic framework relevant to the varied objectives of policy and programming. Despite broad usage, menstrual health lacks a formal, self-contained definition.

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MARCH 2022



Priority List of Indicators for Girls' Menstrual Health and Hygiene: TECHNICAL GUIDANCE FOR NATIONAL MONITORING



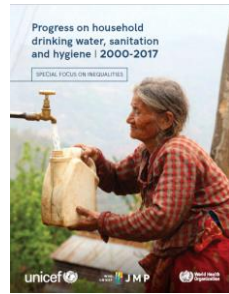
ADVANCEMENT OF METRICS FOR MENSTRUAL HYGIENE MANAGEMENT IN THE WORKPLACE

FINAL REPORT

DECEMBER 2021

This document was produced for review by the United States Agency for International Development. It was prepared by Athena Infonomics LLC and Emory University, under subcontract to Tetra Tech.

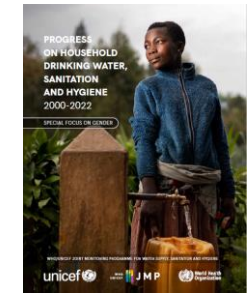
Progress on global monitoring of Menstrual Health



Highlighted as emerging thematic area in global household report



Dedicated chapter in JMP global report (42 countries with data)



Dedicated chapter in global report (53 countries and examples on new indicators)

2018

2019

2020

2021

2022

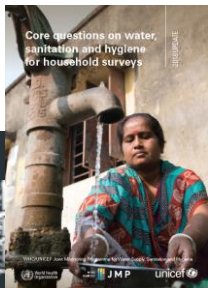
2023

Globally recommended core questions on menstrual health for household surveys

Published global guidance on monitoring Menstrual Health

New indicators and questions agreed on by expert group

MH also included in global monitoring of health care facilities and schools



Four core indicators on Menstrual Health

| | |
|---------------|---|
| Domain | Proportion of women and girls age 15-49 years who have menstruated in the past year who... |
| Materials | used menstrual materials during their last period |
| Facilities | had a private place to wash and change at home during their last menstrual period |
| Knowledge | Knew about menstruation before their first period |
| MH impacts | Participated in school, work or social activities during their last menstrual period |

In 2022, 53 countries had nationally representative data on at least one menstrual health indicator

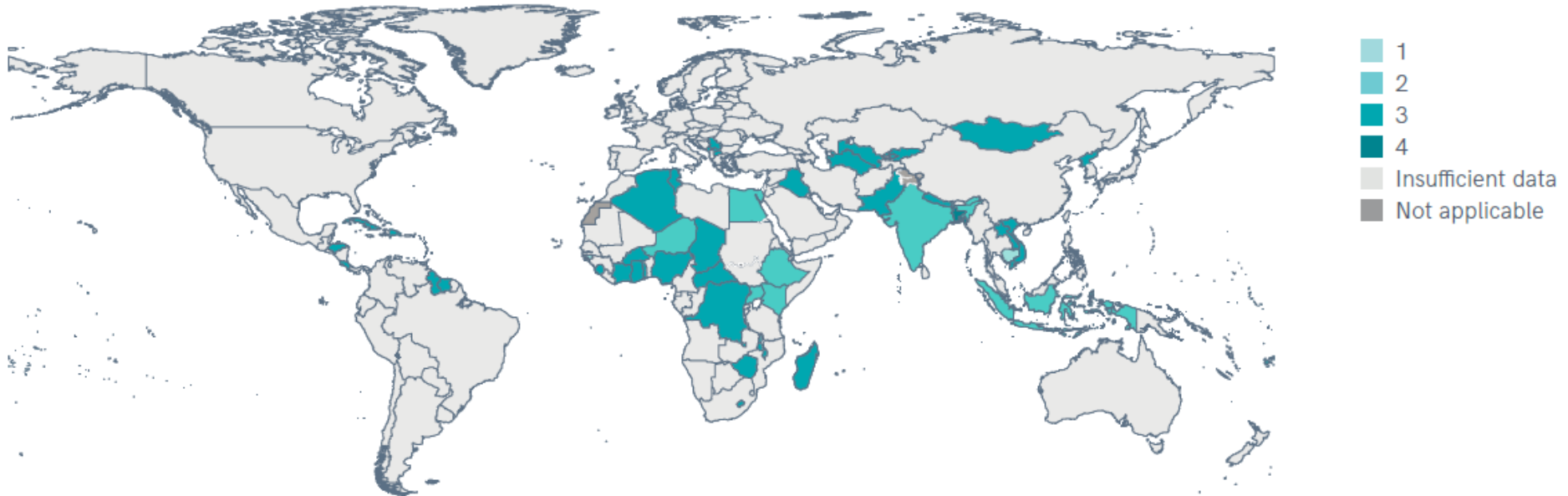


FIGURE 9 Number of menstrual health indicators with national data available, by country, 2022

In countries with data on all three indicators, the proportion of adolescent girls and women meeting all three criteria for menstrual health is often significantly lower

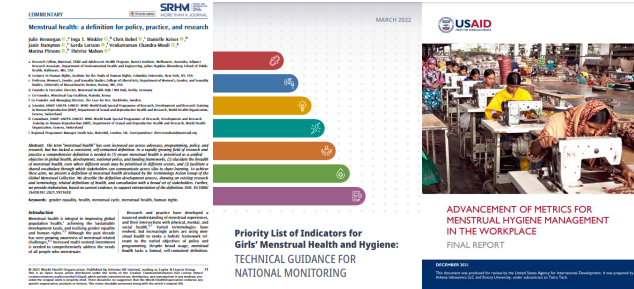


○ All three ● Use of menstrual materials ● Private place to wash and change ● Participation in school, work, social activities

FIGURE 99 Proportion of adolescent girls and women, age 15-49, who used menstrual materials, had a private place to wash and change, and participated in work, school and social activities during their last period, selected MICS surveys, 2016-2022 (%)

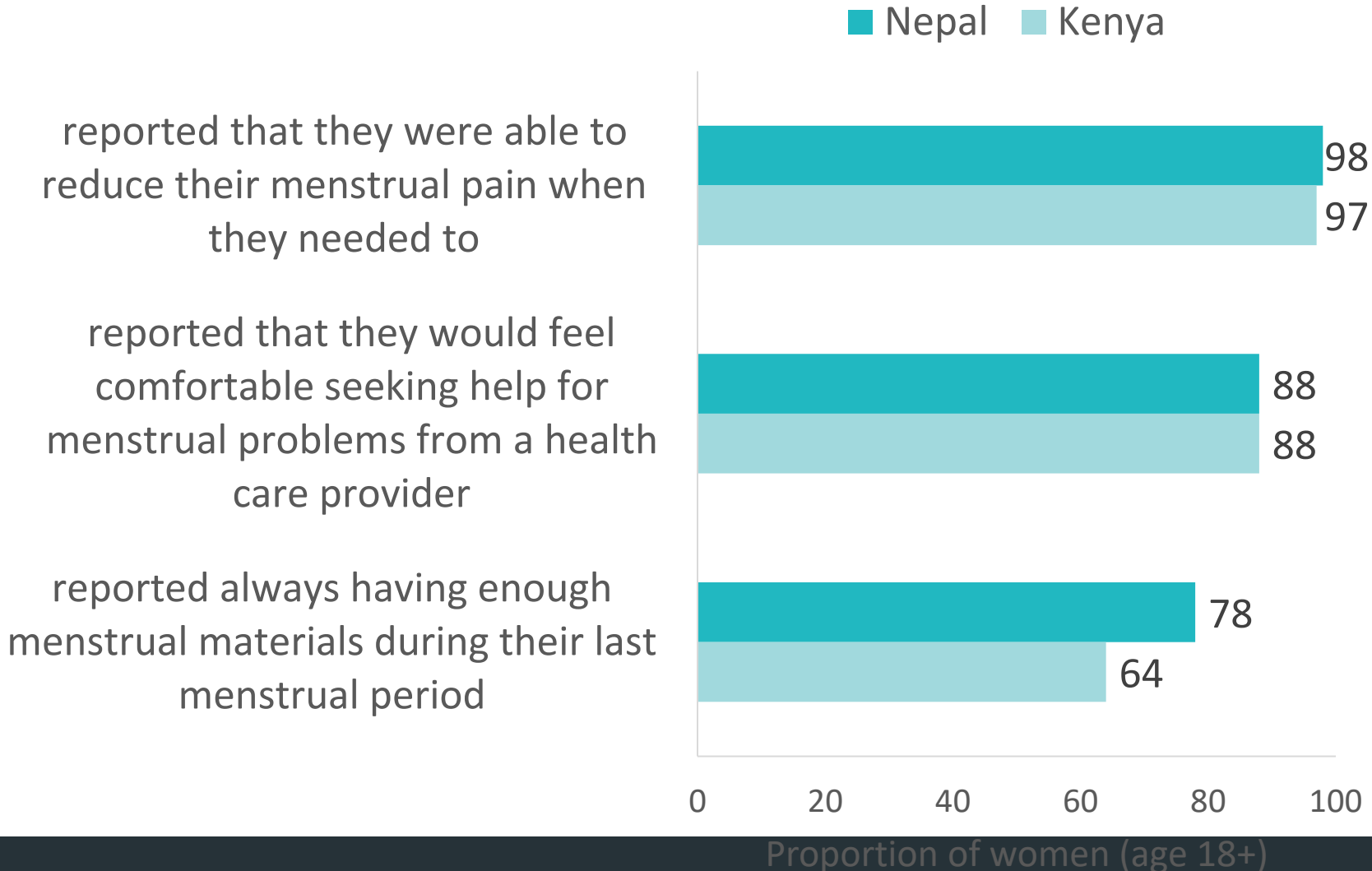
Updated indicators on Menstrual Health

- Updated to better capture the experiences of those who menstruate.
- Based on new literature (definition of menstrual health, priority indicators for monitoring girls' MHH, USAID workplace study...) and expert review



| Domain | Proportion of women and girls age 15-49 years who have menstruated in the past year who... |
|------------------------|--|
| Materials | Reported having enough menstrual materials throughout their last menstrual period |
| Facilities | had a private place to change their menstrual materials at home |
| Knowledge | knew about menstruation before their first menstrual period |
| Discomfort/ disorders | Were able to reduce their menstrual (menstruation-related) pain during their last menstrual period when they needed to |
| Supportive environment | Would feel comfortable seeking help for menstrual problems from a health care provider |
| MH impacts | Did not have trouble participating in school, paid work, or social activities due to their last menstrual period |

Examples of monitoring the new indicators



A USAID survey of women in the workplace includes data from Kenya and Nepal for some of the new indicators

Additional data are expected as the new questions are included by countries implementing MICS7

Exercise 3

- In Bangladesh, what type of menstrual materials did women and girls use during their last period?
 - Mainly reusable or mainly single-use?
 - How does this vary by wealth?

| | | | | | | | | | | | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A1 | | | | | | | | | | | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| | D | | | | H | | | J | | | N | | | P | | |
|--|---|--|--|--|---|--|--|---|--|--|---|--|--|----------------------|--|--|
| | Bangladesh | | | | Bangladesh | | | Bangladesh | | | Bangladesh | | | | | |
| | ICDDR, B | | | | ICDDR, B | | | ICDDR, B | | | Bangladesh Bureau of Statistics | | | | | |
| | National Hygiene Baseline Survey | | | | National Hygiene Survey | | | National Hygiene Survey | | | Multiple Indicator Cluster Survey, 2019 | | | | | |
| | BGD_2019_MICS | | | | BGD_2018_NHS | | | BGD_2019_MICS | | | BGD_2019_MICS | | | | | |
| | Links to sources within BGD_2019_MICS | | | | Survey with microdata | | | Survey with microdata | | | Survey with microdata | | | | | |
| | Reusable materials | | | | Reusable materials | | | Reusable materials | | | Reusable materials | | | 51.0 70.8 66.2 | | |
| | Single-use materials | | | | Single-use materials | | | Single-use materials | | | Single-use materials | | | 46.7 25.1 30.2 | | |
| | Participation in activities during menstruation | | | | Participation in activities during menstruation | | | Participation in activities during menstruation | | | Participation in activities during menstruation | | | 73.3 73.8 75.1 | | |
| | Awareness of menstruation before menarche | | | | Awareness of menstruation before menarche | | | Awareness of menstruation before menarche | | | Awareness of menstruation before menarche | | | | | |
| | used for estimates | | | | Data used for estimates | | | Data used for estimates | | | Data used for estimates | | | | | |
| | Private place to wash and change | | | | Private place to wash and change | | | Private place to wash and change | | | Private place to wash and change | | | Yes Yes No | | |
| | Use of menstrual materials | | | | Use of menstrual materials | | | Use of menstrual materials | | | Use of menstrual materials | | | Yes Yes No | | |
| | Reusable materials | | | | Reusable materials | | | Reusable materials | | | Reusable materials | | | Yes Yes No | | |
| | Single-use materials | | | | Single-use materials | | | Single-use materials | | | Single-use materials | | | Yes Yes No | | |
| | Participation in activities during menstruation | | | | Participation in activities during menstruation | | | Participation in activities during menstruation | | | Participation in activities during menstruation | | | No No No | | |
| | Awareness of menstruation before menarche | | | | Awareness of menstruation before menarche | | | Awareness of menstruation before menarche | | | Awareness of menstruation before menarche | | | No No No | | |
| | on adult women 19-49 (n=2107). | | | | Notes | | | Notes | | | Notes | | | | | |
| | Classification | | | | Classification | | | Classification | | | Classification | | | Urban Rural National | | |
| | Private place to wash and change at home | | | | Private place to wash and change at home | | | Private place to wash and change at home | | | Private place to wash and change at home | | | Urban Rural National | | |
| | Yes | | | | Yes | | | Yes | | | Yes | | | 97.1 96.6 96.7 | | |
| | No | | | | No | | | No | | | No | | | 2.9 3.4 3.2 | | |
| | DK/missing | | | | DK/missing | | | DK/missing | | | DK/missing | | | | | |
| | Total | | | | Total | | | Total | | | Total | | | 99.9 100.0 100.0 | | |
| | Menstrual materials | | | | Menstrual materials | | | Menstrual materials | | | Menstrual materials | | | | | |
| | Menstrual materials used (multiple response) | | | | Menstrual materials used (multiple response) | | | Menstrual materials used (multiple response) | | | Menstrual materials used (multiple response) | | | | | |
| | Single-use sanitary pads | | | | Single-use sanitary pads | | | Single-use sanitary pads | | | Single-use sanitary pads | | | 43.7 20.1 25.8 | | |
| | Reusable sanitary pads | | | | Reusable sanitary pads | | | Reusable sanitary pads | | | Reusable sanitary pads | | | | | |
| | Tampons | | | | Tampons | | | Tampons | | | Tampons | | | | | |
| | Menstrual cup | | | | Menstrual cup | | | Menstrual cup | | | Menstrual cup | | | | | |
| | Cloth | | | | Cloth | | | Cloth | | | Cloth | | | 54.4 78.1 72.4 | | |
| | Cotton wool | | | | Cotton wool | | | Cotton wool | | | Cotton wool | | | 0.3 0.2 0.2 | | |
| | Other menstrual materials | | | | Other menstrual materials | | | Other menstrual materials | | | Other menstrual materials | | | | | |
| | Toilet paper | | | | Toilet paper | | | Toilet paper | | | Toilet paper | | | 1.6 1.5 1.5 | | |
| | Underwear only | | | | Underwear only | | | Underwear only | | | Underwear only | | | | | |
| | Other | | | | Other | | | Other | | | Other | | | 0.0 0.0 0.0 | | |
| | Nothing | | | | Nothing | | | Nothing | | | Nothing | | | | | |
| | DK/missing | | | | DK/missing | | | DK/missing | | | DK/missing | | | | | |
| | Total | | | | Total | | | Total | | | Total | | | 100.0 100.0 100.0 | | |
| | Reusable and single-use menstrual materials | | | | Reusable and single-use menstrual materials | | | Reusable and single-use menstrual materials | | | Reusable and single-use menstrual materials | | | | | |
| | Reusable materials | | | | Reusable materials | | | Reusable materials | | | Reusable materials | | | 51.0 70.8 66.2 | | |
| | Single-use materials | | | | Single-use materials | | | Single-use materials | | | Single-use materials | | | 46.7 25.1 30.2 | | |
| | No materials used | | | | No materials used | | | No materials used | | | No materials used | | | 2.2 3.9 3.5 | | |
| | DK/missing | | | | DK/missing | | | DK/missing | | | DK/missing | | | 0.1 0.2 0.1 | | |
| | Total | | | | Total | | | Total | | | Total | | | 100.0 100.0 100.0 | | |
| | Participation in activities during menstruation | | | | Participation in activities during menstruation | | | Participation in activities during menstruation | | | Participation in activities during menstruation | | | | | |
| | Participation in all specified activities | | | | Participation in all specified activities | | | Participation in all specified activities | | | Participation in all specified activities | | | 73.3 73.8 75.1 | | |
| | Did not go to school (amongst those usually attending school) | | | | Did not go to school (amongst those usually attending school) | | | Did not go to school (amongst those usually attending school) | | | Did not go to school (amongst those usually attending school) | | | | | |
| | Did not go to work (amongst those who usually work) | | | | Did not go to work (amongst those who usually work) | | | Did not go to work (amongst those who usually work) | | | Did not go to work (amongst those who usually work) | | | | | |
| | Did not participate in social activities | | | | Did not participate in social activities | | | Did not participate in social activities | | | Did not participate in social activities | | | | | |
| | Did not cook food | | | | Did not cook food | | | Did not cook food | | | Did not cook food | | | 0.0 1.5 3.9 | | |

BASIC WATER SANITATION HYGIENE RAW SUBNATIONAL WEALTH QUINTILES

Bangladesh
2019
Access to menstrual health and hygiene facilities
by wealth quintile and sub-national region

Notes:
 WHO/UNICEF JMP customised wealth index excludes water, sanitation and hygiene assets.
 Survey used for analysis: **MICS19**

| Menstrual health and hygiene | | NATIONAL wealth index quintile | | | | | URBAN wealth index quintile | | | | | RURAL wealth index quintile | | | | | SUB-REGIONS: | |
|--|--|--------------------------------|------|--------|------|---------|-----------------------------|------|--------|------|---------|-----------------------------|------|--------|------|---------|--------------|------------|
| | | Poorest | Poor | Middle | Rich | Richest | Poorest | Poor | Middle | Rich | Richest | Poorest | Poor | Middle | Rich | Richest | Barishal | Chattogram |
| Percentage based on weighted women population | | | | | | | | | | | | | | | | | | |
| Private place to wash and change | Yes | 95.2 | 96.4 | 96.8 | 97.3 | 97.7 | 96.2 | 96.7 | 96.6 | 97.8 | 97.9 | 95.0 | 96.3 | 96.7 | 97.0 | 97.9 | 94.9 | 96.6 |
| | No | 4.8 | 3.6 | 3.2 | 2.7 | 2.3 | 3.8 | 3.3 | 3.4 | 2.2 | 2.1 | 4.9 | 3.7 | 3.3 | 3.0 | 2.1 | 5.1 | 3.4 |
| | DK/not sure/missing | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0 |
| Use of menstrual materials | Materials reusable | 82.3 | 79.8 | 72.9 | 64.6 | 40.4 | 78.6 | 70.6 | 61.5 | 42.0 | 18.9 | 81.9 | 81.1 | 76.2 | 67.6 | 51.6 | 65.5 | 67.0 |
| | Materials not reusable | 11.9 | 15.8 | 23.4 | 32.2 | 57.7 | 17.1 | 26.2 | 35.7 | 56.4 | 80.4 | 12.0 | 14.3 | 20.1 | 28.7 | 45.8 | 30.6 | 28.4 |
| | No materials used | 5.5 | 4.2 | 3.6 | 3.1 | 1.8 | 4.2 | 3.1 | 2.7 | 1.6 | 0.6 | 5.7 | 4.3 | 3.6 | 3.7 | 2.5 | 3.7 | 4.5 |
| | DK/not sure/missing | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Use of menstrual materials with private place to wash and change | Materials reusable | 83.4 | 80.7 | 73.7 | 65.2 | 40.7 | 79.0 | 71.4 | 61.9 | 42.3 | 19.1 | 83.1 | 82.1 | 76.9 | 68.3 | 52.0 | 66.3 | 67.9 |
| | Materials not reusable | 11.9 | 15.8 | 23.5 | 32.3 | 57.8 | 17.2 | 26.4 | 35.7 | 56.4 | 80.5 | 12.0 | 14.3 | 20.1 | 28.8 | 45.9 | 30.3 | 28.7 |
| | No materials used | 4.7 | 3.6 | 2.9 | 2.5 | 1.5 | 3.8 | 2.2 | 2.4 | 1.3 | 0.4 | 4.9 | 3.6 | 2.9 | 2.9 | 2.1 | 3.4 | 3.4 |
| Awareness of menstruation before menarche | Yes | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | No | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | DK/not sure/missing | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Participation in (all) activities during menstruation | Yes | 73.6 | 73.4 | 73.5 | 75.3 | 78.6 | 74.7 | 78.2 | 81.1 | 81.7 | 79.4 | 73.4 | 73.8 | 73.1 | 73.3 | 75.3 | 54.1 | 64.2 |
| | No | 8.2 | 7.9 | 8.2 | 8.2 | 7.1 | 8.2 | 6.8 | 5.9 | 5.8 | 5.8 | 8.1 | 8.0 | 7.9 | 8.5 | 9.0 | 9.9 | 12.9 |
| | DK/not sure/missing/no such activity | 18 | 19 | 18 | 16 | 14.3 | 17.1 | 15.1 | 13.0 | 12.6 | 14.9 | 18.5 | 18.2 | 18.9 | 18.2 | 15.7 | 36.0 | 23.0 |
| Participation in specific activities during menstruation | Did not go to school (amongst those usually attending) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Did not go to work (amongst those who usually work) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Did not participate in social activities | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Did not cook food | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Did not eat with others | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Did not bathe in regular place | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Did not participate in other activities | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | DK/not sure/missing/no such activity | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

In 2022, data coverage for SDG WASH indicators varied widely between regions

| % of population (number of countries, areas and territories) in 2022 | DRINKING WATER | | | | | SANITATION | | | | | | HYGIENE |
|--|----------------|----------------|------------------------|-----------------------|-------------------------|-----------------|----------------|----------------|----------------------------|---------------------|--------------------|----------|
| | At least basic | Safely managed | Accessible on premises | Available when needed | Free from contamination | Open defecation | At least basic | Safely managed | Safely disposed of in situ | Emptied and treated | Wastewater treated | Basic |
| World (234) | 99% (207) | 51% (142) | 99% (207) | 86% (139) | 51% (142) | 96% (198) | 98% (206) | 86% (135) | 85% (137) | 1% (5) | 59% (110) | 69% (84) |
| Rural | 98% (164) | 64% (75) | 98% (162) | 91% (111) | 64% (75) | 97% (156) | 98% (161) | 80% (89) | 84% (89) | 0% (1) | 9% (4) | 82% (82) |
| Urban | 94% (175) | 63% (96) | 93% (173) | 76% (124) | 63% (96) | 94% (172) | 94% (172) | 81% (116) | 83% (118) | 24% (2) | 44% (24) | 59% (80) |
| SDG REGIONS | | | | | | | | | | | | |
| Australia and New Zealand (2) | 100% (2) | 17% (1) | 100% (2) | 83% (1) | 17% (1) | 100% (2) | 100% (2) | 100% (2) | 100% (2) | 0% (0) | 100% (2) | 0% (0) |
| Central and Southern Asia (14) | 99% (13) | 31% (11) | 99% (13) | 95% (12) | 31% (11) | 96% (13) | 100% (14) | 80% (6) | 92% (7) | 0% (0) | 13% (3) | 95% (11) |
| Eastern and South-Eastern Asia (18) | 100% (18) | 35% (14) | 100% (18) | 93% (12) | 35% (14) | 99% (17) | 100% (18) | 87% (14) | 77% (15) | 2% (1) | 17% (7) | 89% (8) |
| Europe and Northern America (53) | 100% (49) | 100% (46) | 100% (49) | 44% (16) | 100% (46) | 99% (47) | 99% (47) | 99% (42) | 99% (42) | 1% (4) | 99% (46) | 0% (2) |
| Latin America and the Caribbean (50) | 92% (37) | 79% (20) | 92% (37) | 90% (27) | 79% (20) | 88% (37) | 92% (39) | 82% (17) | 80% (17) | 0% (0) | 86% (18) | 40% (14) |
| Northern Africa and Western Asia (25) | 100% (24) | 36% (16) | 100% (24) | 82% (20) | 36% (16) | 86% (21) | 90% (22) | 85% (20) | 95% (20) | 0% (0) | 94% (21) | 33% (9) |
| Oceania (21) | 93% (17) | 16% (12) | 93% (17) | 85% (10) | 16% (12) | 92% (15) | 94% (18) | 11% (6) | 33% (6) | 0% (0) | 8% (4) | 87% (7) |
| Sub-Saharan Africa (51) | 99% (47) | 64% (22) | 99% (47) | 98% (41) | 64% (22) | 99% (46) | 99% (46) | 83% (28) | 81% (28) | 0% (0) | 53% (9) | 87% (33) |

TABLE 1 Percentage of population and number of countries with estimates available for global WASH indicators, by regional grouping, 2022

Careers in WASH

- Domestic and international
- NGOs
 - Helvetas, Terre des Hommes
- Academia
 - Eawag/Sandec, ETH, EPFL
- UN Junior Professional Officer (\leq age 32, two years relevant experience)
 - Australia, Austria, Bahrain, Belgium, China, Denmark, Egypt, Estonia, Finland, France, Germany, Hungary, Iceland, Italy, Japan, Kazakhstan, Kuwait, Luxembourg, Morocco, Netherlands, Norway, Poland, Qatar, Russia, Saudi Arabia, Singapore, Republic of Korea, Spain, Sweden, Switzerland, UAE, UK, USA
- World Bank Young Professionals Programme (need MSc)



Thank you!

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