

# Regional snapshot of Drinking Water, Sanitation and Hygiene in Households in the WHO Eastern Mediterranean Region 2023

Extracted from the global report "Progress on household drinking water, sanitation and hygiene 2000-2022: special focus on gender" by

Dr. Rola Al-Emam

Eng. Mohammad Shakkour

WHO Regional Centre for Climate Change, Health and  
Environment (CHE)

## Executive summary

### Progress on household drinking water, sanitation and hygiene 2000 – 2022

#### Special Focus on Gender

The World Health Organization (WHO) and the United Nations Children's Fund (UNICEF), through the Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) are the custodian agencies responsible for compilation and reporting on the Sustainable Development Goal targets for drinking water (6.1.1), sanitation and hygiene (6.2.1a and 6.2.1b). Every two years the JMP produces comparable estimates of progress at country, regional and global levels based on official national data.

This regional snapshot is based on the WHO/UNICEF JMP latest report, "[Progress on household drinking water, sanitation and hygiene 2000-2022: special focus on gender](#)" which provides the first in-depth analysis of gender inequalities in drinking water, sanitation, and hygiene (WASH) in households. This analysis revealed that women and girls are responsible for fetching water in 7 out of 10 households without supplies on premises. The global report shows that around 2.2 billion people – or 1 in 4 – still lack safely managed drinking water at home and 3.4 billion people – or 2 in 5 – do not have safely managed sanitation. Around 2 billion people – or 1 in 4 – cannot wash their hands with soap and water at home.

This report provides **a snapshot of the region in 2022**, where around 78 million people, or 10% of the EMR population, still lack basic drinking water and 138 million people (18%) still do not have access to basic sanitation services and 222 million people (28%) do not have access to basic hygiene facilities.

**The Eastern Mediterranean Region (EMR) is making progress but still not on track** to achieve universal access to water, sanitation and hygiene (WASH) services. Achieving the Sustainable Development Goal target for universal access to safely managed drinking water, sanitation, and basic hygiene services by 2030 will require a **nine-fold** increase in current rates of progress for **safely managed drinking water**, a **six-fold** increase for **safely managed sanitation**, and an **eleven-fold** increase for **basic hygiene services**. Progress made is not at a substantial rate. The region's population with access to safely managed drinking water at home increased from 63% in 2015 to 67% in 2022, safely managed sanitation services grew from 47% to 55%; and the population with handwashing facilities with soap and water at home increased from 69% to 72%. **At this rate**, by 2030 only 72% of the region's population will have access to safely managed drinking water services at home, leaving 220 million without; 65% will have access to safely managed sanitation services, leaving 272 million without; and 76% will have basic handwashing facilities, leaving 187 million people without.

**Business-as-usual** will lead to millions of people remaining vulnerable to the health and socioeconomic consequences of having no or limited access to safe WASH services in 2030.

**Progress has been uneven**, with the most vulnerable populations falling farthest behind. **Vast inequalities and disparities** in WASH availability and progress exist among countries within the region and across the rural-urban divide.

Speeding up the pace in WASH coverage will require **political prioritization** at the highest levels of decision making and must be a regular fixture on the agenda to ensure countries keep track of progress, or lack thereof.

Improving access to WASH is crucial to preventing and managing **the impacts of outbreaks and future pandemics** like cholera and COVID-19, making it essential for a healthy, equitable future.

Further efforts are needed to ensure that progress on WASH contributes towards gender equality, including integrated gender considerations in WASH programmes and policies and disaggregated data collection and analysis, to inform targeted interventions that address the specific needs of women and girls and other vulnerable groups.

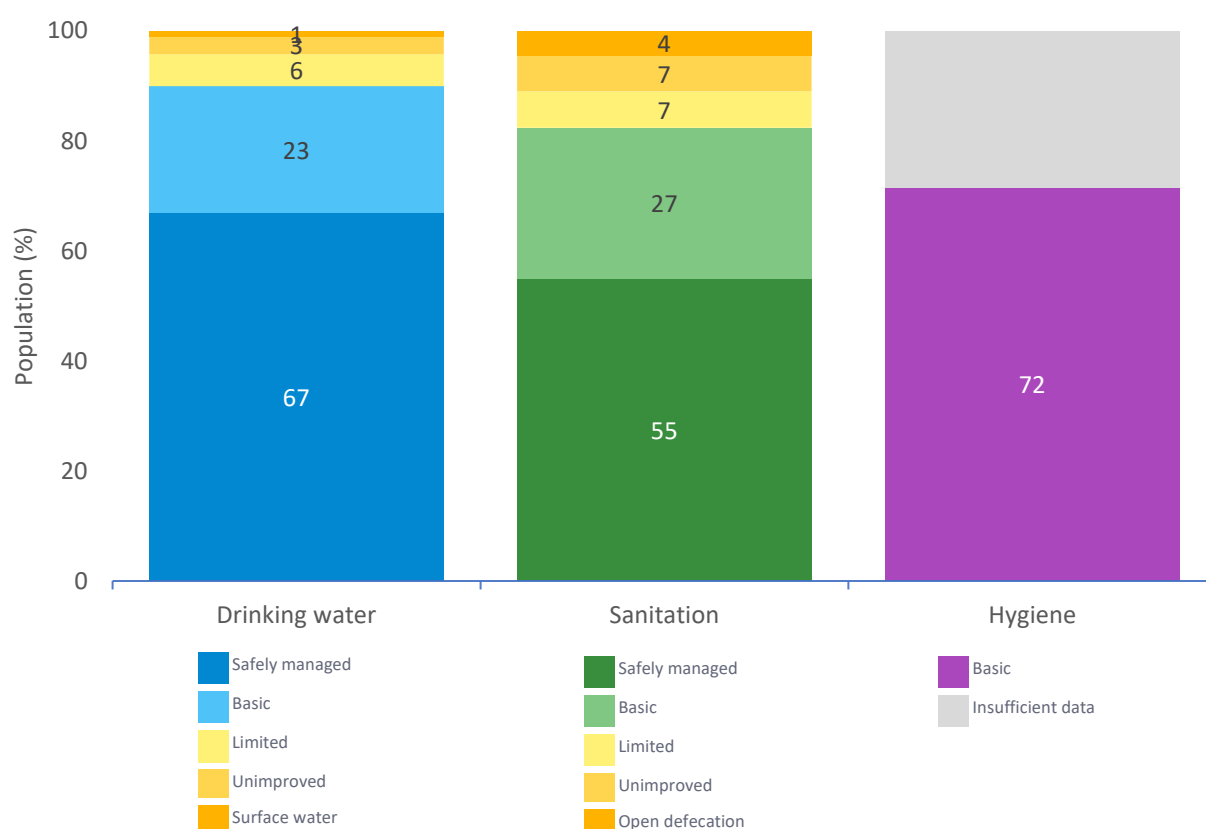


Figure 1: Eastern Mediterranean Region WASH service ladders (%) at national level, 2022

# Drinking water coverage

In 2022,

- **67%** of population in the EMR had **safely managed** drinking water services.
- Substantial disparities exist between urban and rural areas: **76%** of population used safely managed services while only **56%** in rural areas had access to safely managed services.
- **78 million** people in the EMR lacked **basic** drinking water services, of which **19 million** people lived in urban areas and **59 million** people lived in rural areas.
- **9** out of the 22 countries in the EMR had insufficient data to estimate national coverage of **safely managed** drinking water services.
- Regional coverage of **safely managed** drinking water services in the EMR varied widely ranging from more than **99%** coverage in high income countries, like Bahrain and Kuwait, to **30%** in Afghanistan.

Proportion of EMR population using safely managed, basic, limited, unimproved water services or surface water, 2015 – 2022.

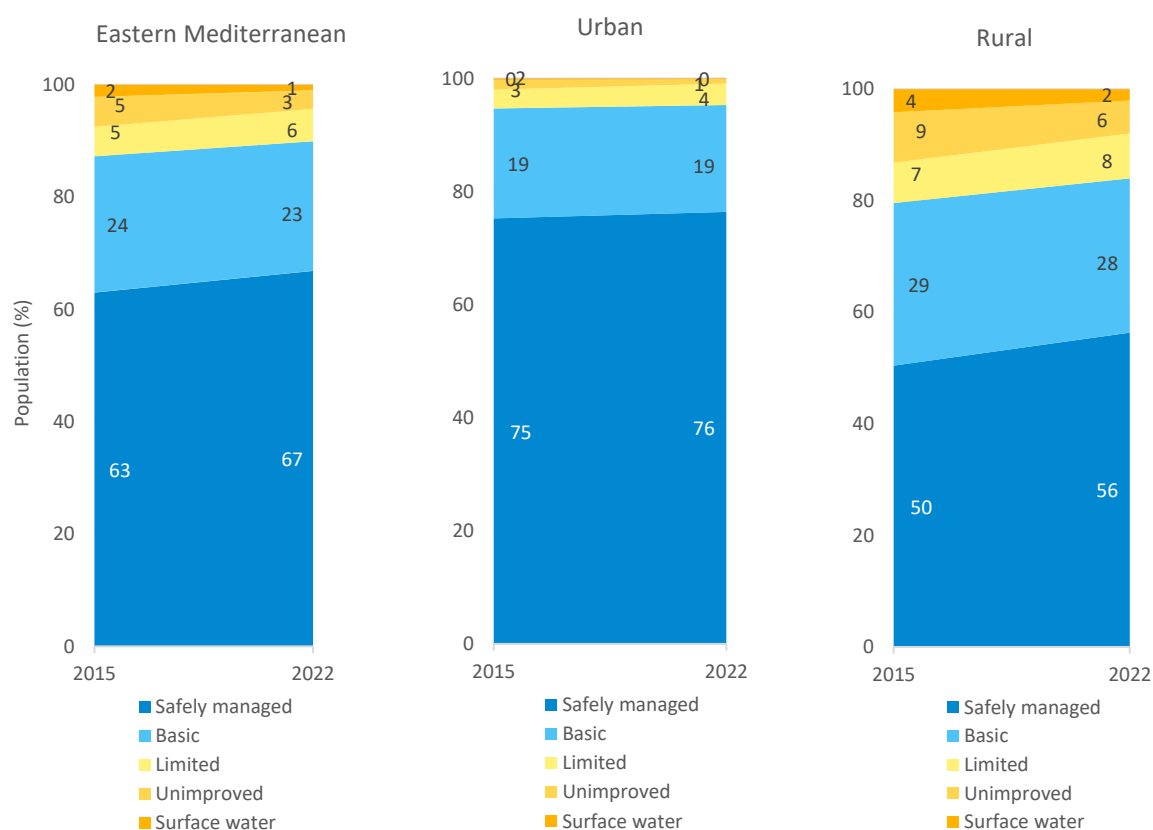


Figure 2: EMR national, urban and rural drinking water ladders (%), 2015-2022

Table 1: SDG ladder for drinking water services

| 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                                                              |

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

### Global and regional drinking water ladders at national level in 2022

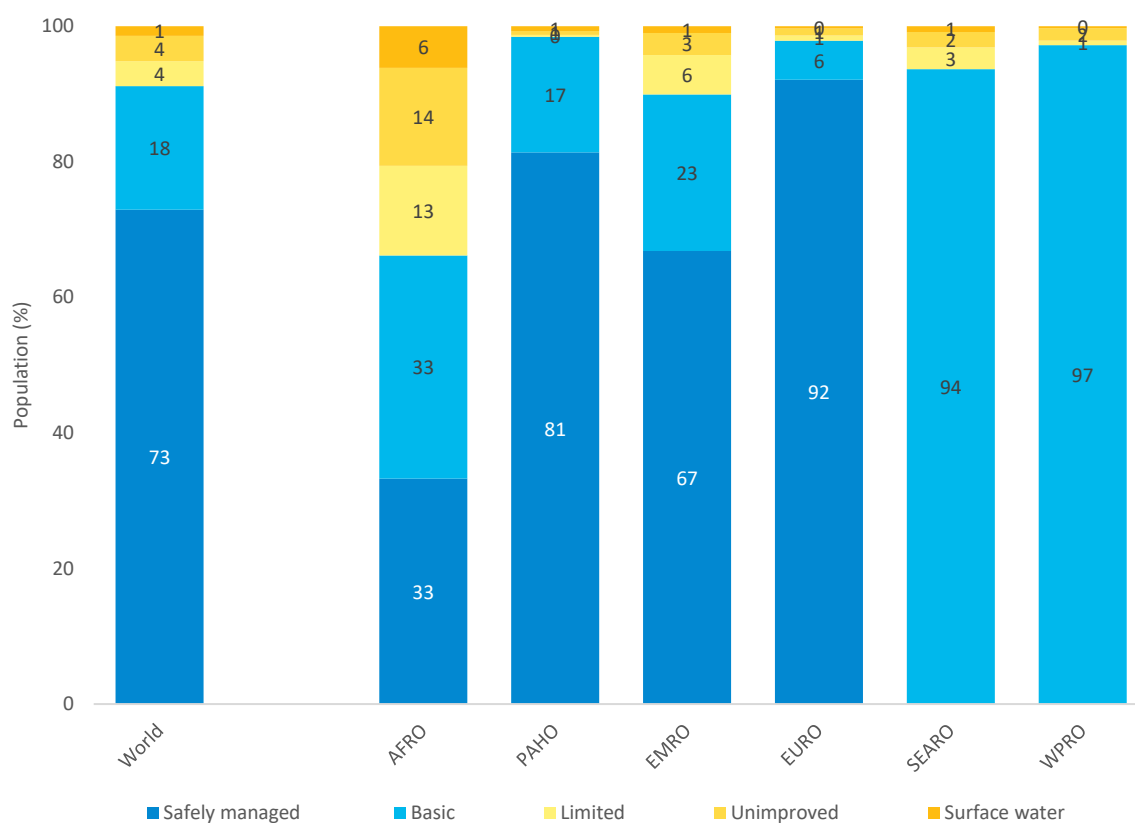


Figure 3: Global and regional drinking water ladders (%) at national level, 2022

Countries in the region with the largest number of people (millions) who did not use a basic drinking water service in 2022.



Figure 4: Number of people lacked access to basic drinking water services in the EMR

Countries in **urban** areas of the EMR with the largest number of people (millions) who did not use a basic drinking water service in 2022.

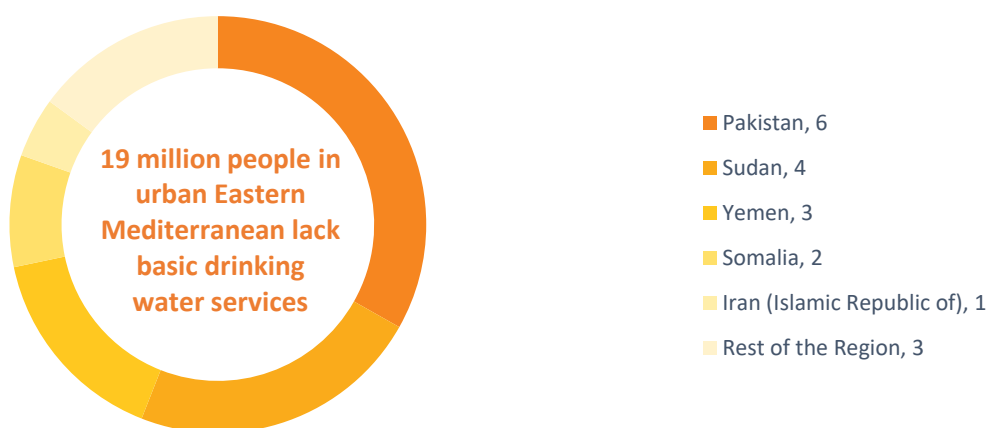


Figure 5: Number of people lacked access to basic drinking water services in urban areas of the EMR

Countries in **rural** areas of the EMR with the largest number of people (millions) who did not use a basic drinking water service in 2022.



Figure 6: Number of people lacked access to basic drinking water services in rural areas of the EMR

## Eastern Mediterranean countries ranked by safely managed and basic drinking water services in 2022

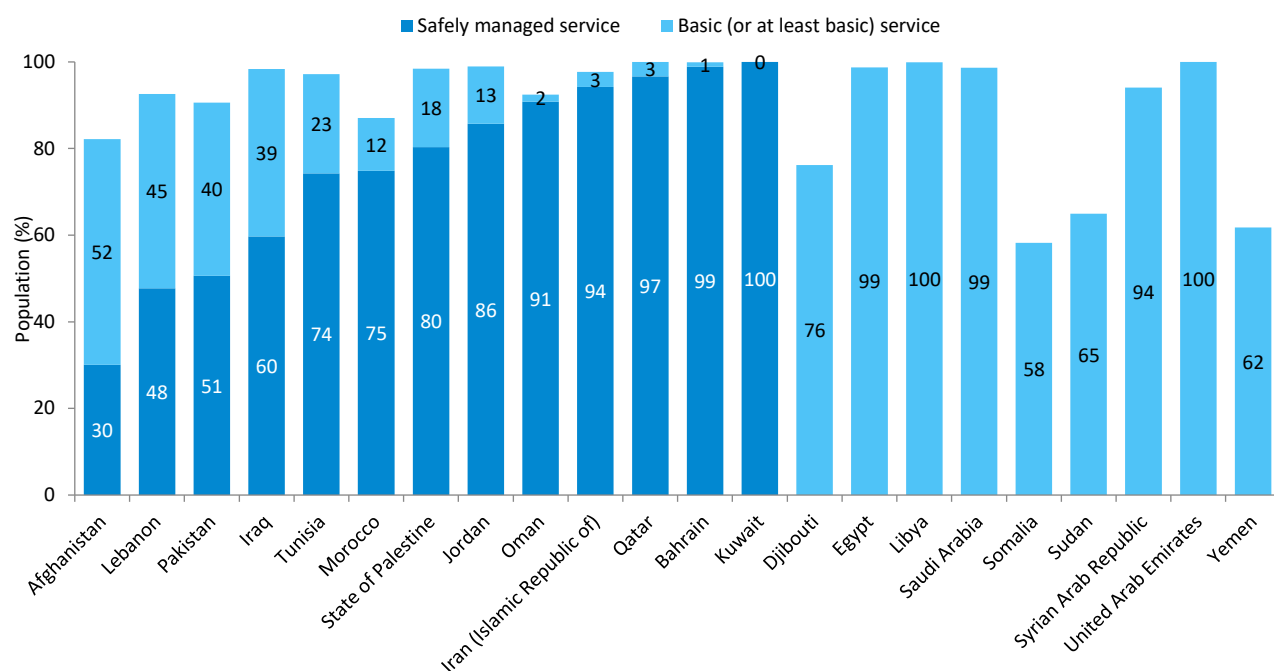


Figure 7: EMR countries ranked by safely managed and basic drinking water services in 2022 (%)

## Proportion of population in the EMR using safely managed drinking water services, 2022 (%)

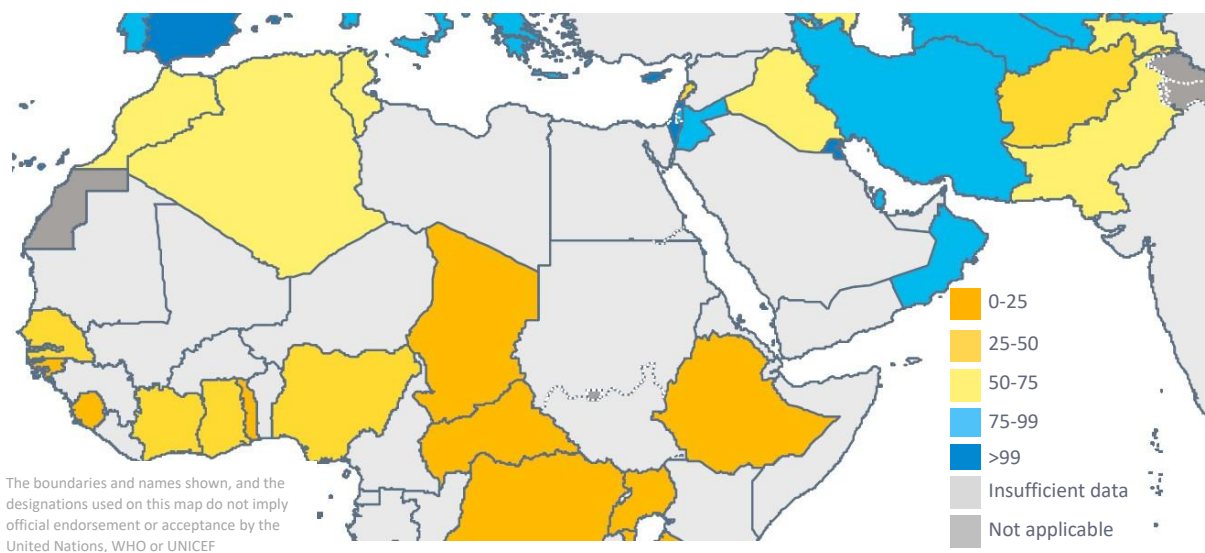


Figure 8: Proportion of population using safely managed drinking water services, 2022 (%)

# Sanitation coverage

In 2022,

- **55%** of population in the EMR had safely managed sanitation services.
- Substantial disparities exist between urban and rural areas: **62%** of urban population used safely managed services while only **47%** in rural areas had access to safely managed services.
- **138 million** people in the EMR lacked basic sanitation services, of which **35 million** people lived in urban areas and **103 million** people lived in rural areas.
- **6** out of the 22 countries in the EMR had insufficient data to estimate national coverage of safely managed sanitation services.
- Regional coverage of safely managed sanitation services in the EMR varied widely ranging from **100%** coverage in high income countries, like Qatar and Kuwait, to **19%** in Yemen.

**Proportion of EMR population using safely managed, basic, limited, unimproved sanitation services or practise open defecation, 2015 – 2022.**

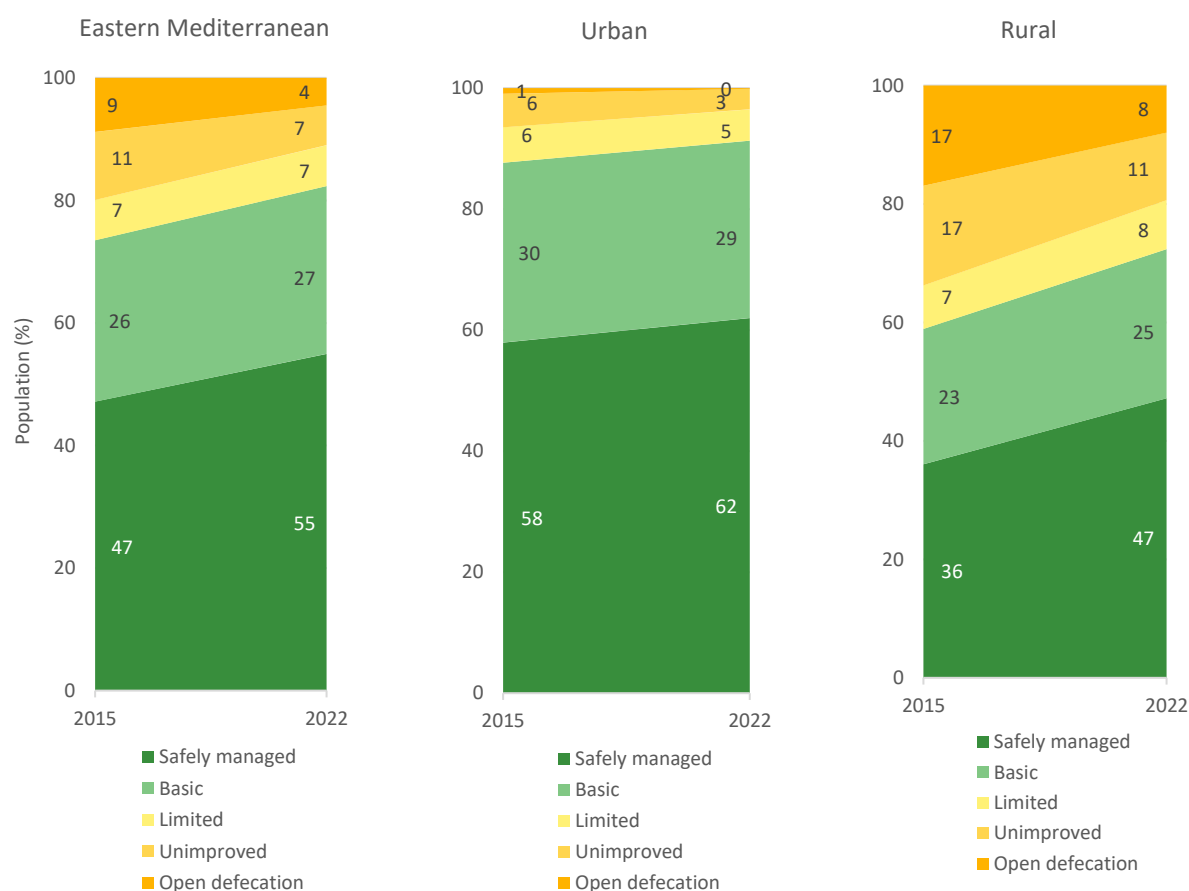


Figure 9: EMR national, urban and rural sanitation ladders (%), 2015-2022

Table 2: SDG ladder for sanitation services

| 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 Defecation | Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches or other open places, or with solid waste                          |

**Note:** Improved facilities include flush/pour flush toilets connected to piped sewer systems, septic tanks or pit latrines; pit latrines with slabs (including ventilated pit latrines); and composting toilets.

### Global and regional sanitation ladders at national level in 2022

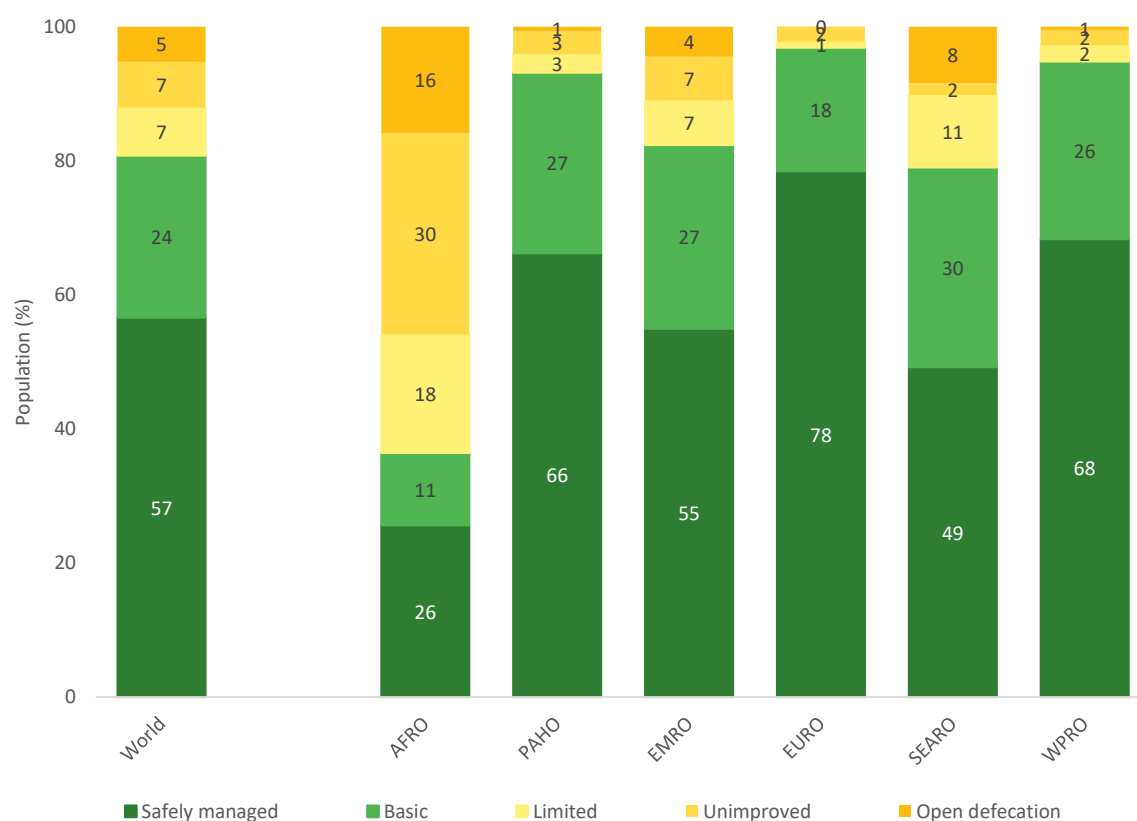


Figure 10: Global and regional sanitation ladders (%) at national level, 2022

Countries in the region with the largest number of people (millions) who did not use a basic sanitation service in 2022.

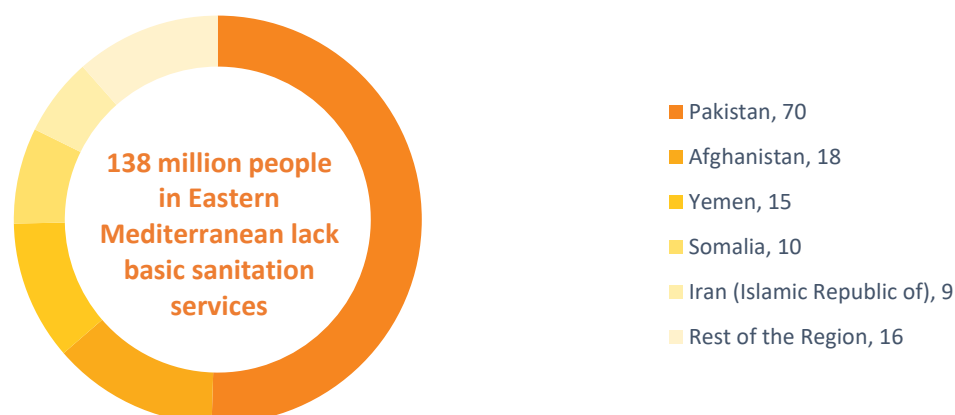


Figure 11: Number of people lacked access to basic sanitation services in the EMR

Countries in **urban** areas of the EMR with the largest number of people (millions) who did not use a basic sanitation service in 2022.

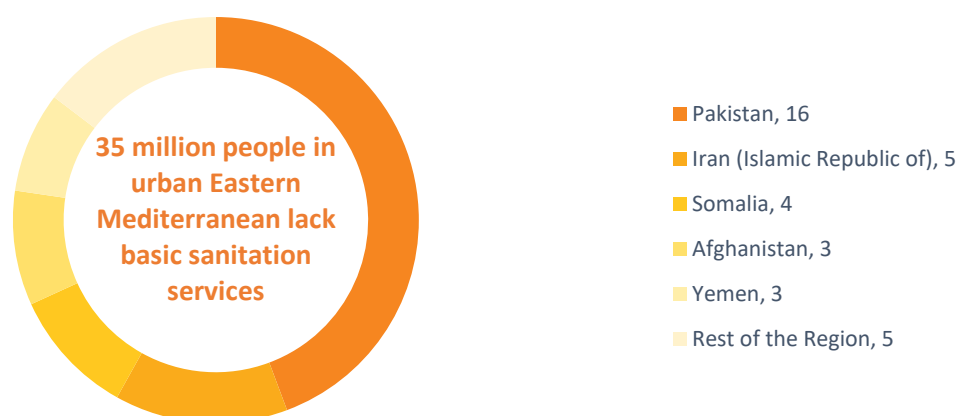


Figure 12: Number of people lacked access to basic sanitation services in urban areas of the EMR

Countries in **rural** areas of the EMR with the largest number of people (millions) who did not use a basic sanitation service in 2022.



Figure 13: Number of people lacked access to basic sanitation services in rural areas of the EMR

## Eastern Mediterranean countries ranked by safely managed and basic sanitation services in 2022

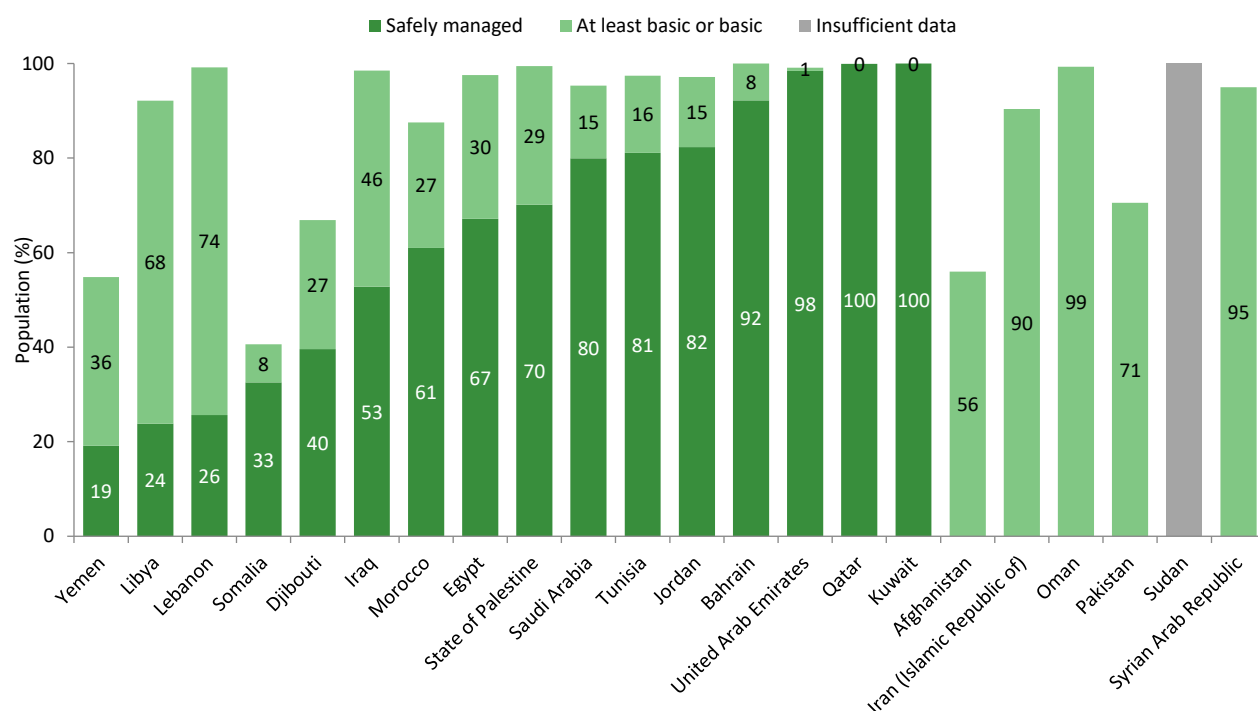


Figure 14: EMR countries ranked by safely managed and basic sanitation services in 2022 (%)

## Proportion of population in the EMR using safely managed sanitation services, 2022 (%)

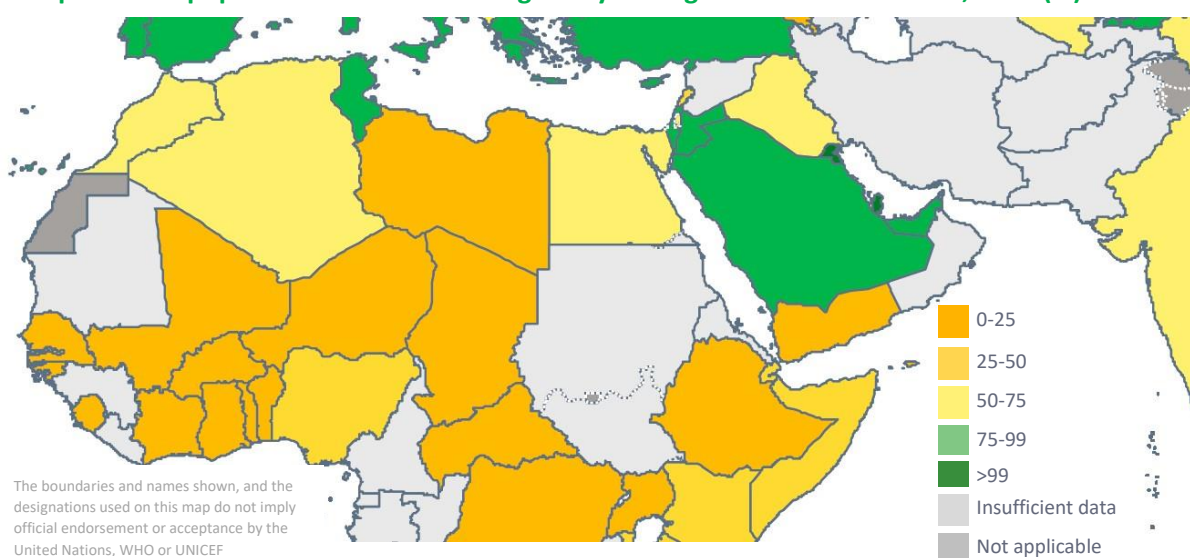


Figure 15: Proportion of population using safely managed sanitation services, 2022 (%)

# Hygiene coverage

In 2022,

- **72%** of population in the EMR had basic hygiene services.
- No estimate could be produced for basic hygiene at urban level due to data insufficiency
- Only **61%** of population in the EMR had basic hygiene services at rural level.
- **222 million** people in the EMR lacked basic hygiene services, of which **146 million** people lived in rural areas.
- **13** out of the 22 countries in the EMR had insufficient data to estimate national coverage of basic hygiene services.
- Regional coverage of basic hygiene services in the EMR varied widely ranging from **100%** coverage in high income countries, like Bahrain, to **11%** in Sudan.

Proportion of EMR population using basic, limited and no hygiene services, 2015 – 2022.

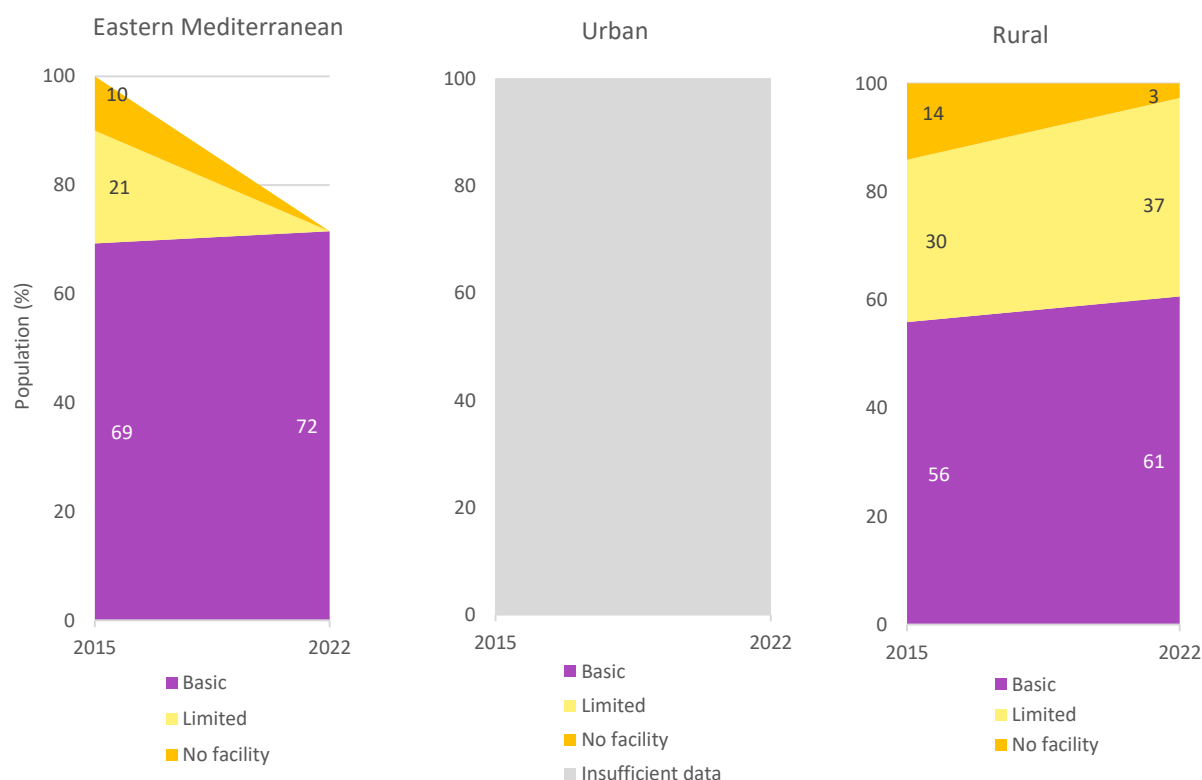


Figure 16: EMR national, urban and rural hygiene ladders (%), 2015-2022

Table 3: SDG service ladder for 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                                          |

**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.

### Global and regional hygiene ladders at national level in 2022

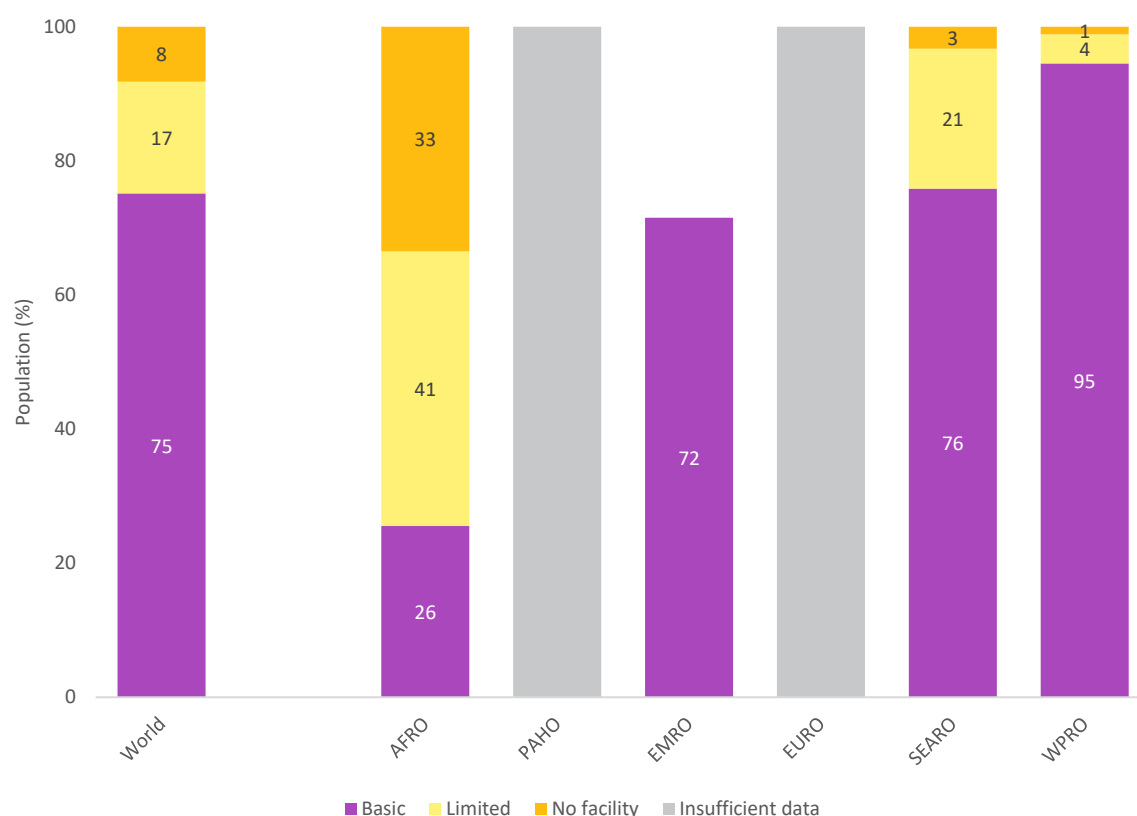


Figure 17: Global and regional hygiene ladders (%) at national level, 2022

Countries in the region with the largest number of people (millions) who did not use a basic hygiene service in 2022.



Figure 18: Number of people lacked access to basic hygiene services in the EMR

Countries in **rural** areas of the EMR with the largest number of people (millions) who did not use a basic hygiene service in 2022.



Figure 19: Number of people lacked access to basic hygiene services in rural areas of the EMR

Eastern Mediterranean countries ranked by basic hygiene services in 2022.

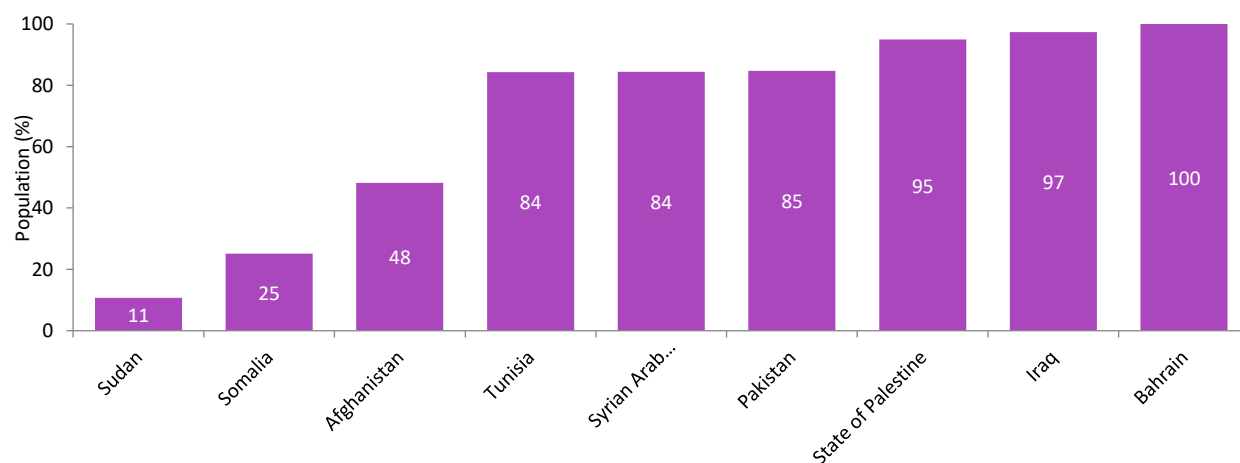


Figure 20: EMR countries ranked by basic hygiene services in 2022 (%)

Eastern Mediterranean countries ranked by no handwashing facility in 2022.

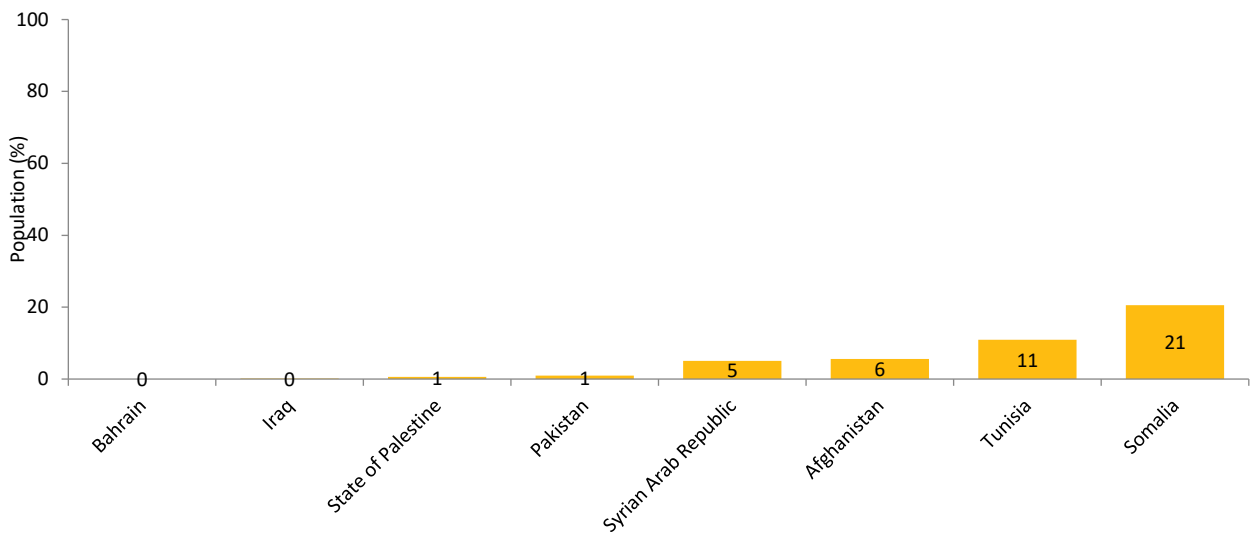


Figure 21: EMR countries ranked by no handwashing facility (%), 2022

Proportion of population in the EMR using basic hygiene services, 2022 (%)

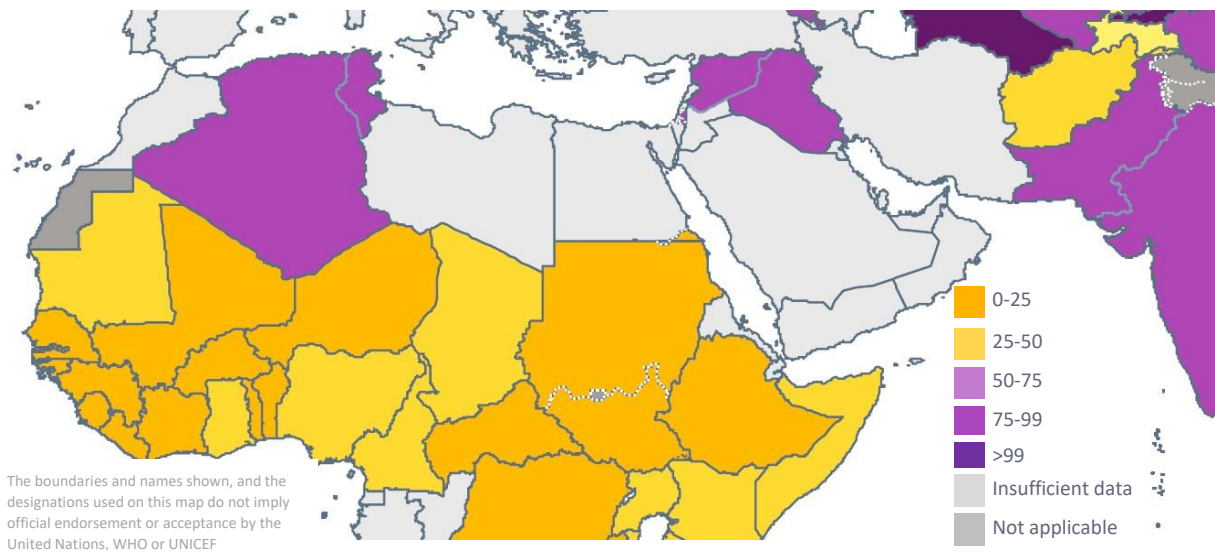


Figure 22: Proportion of population using basic hygiene services, 2022 (%)

# Menstrual Hygiene coverage

Proportion of women and girls in the region who reported use of menstrual materials. Few countries reported on menstrual hygiene in the EMR.

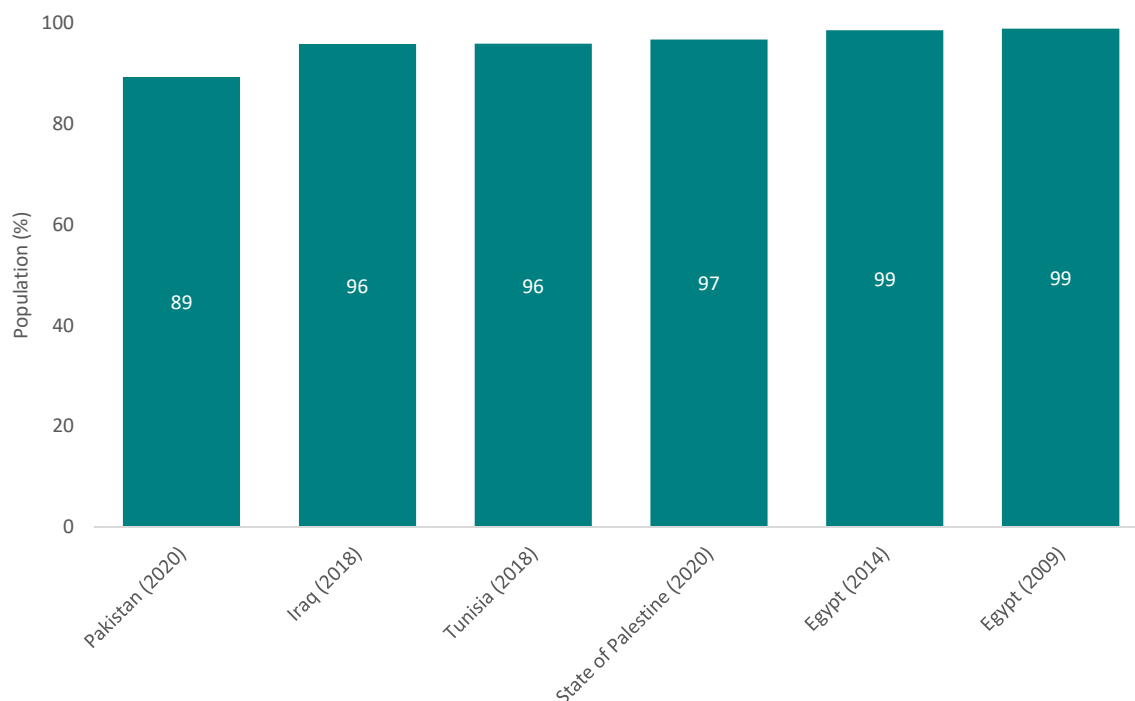


Figure 23: Proportion of women and girls who report use of menstrual materials, 2022

Proportion of women and girls in the EMR with access to a private place to wash.

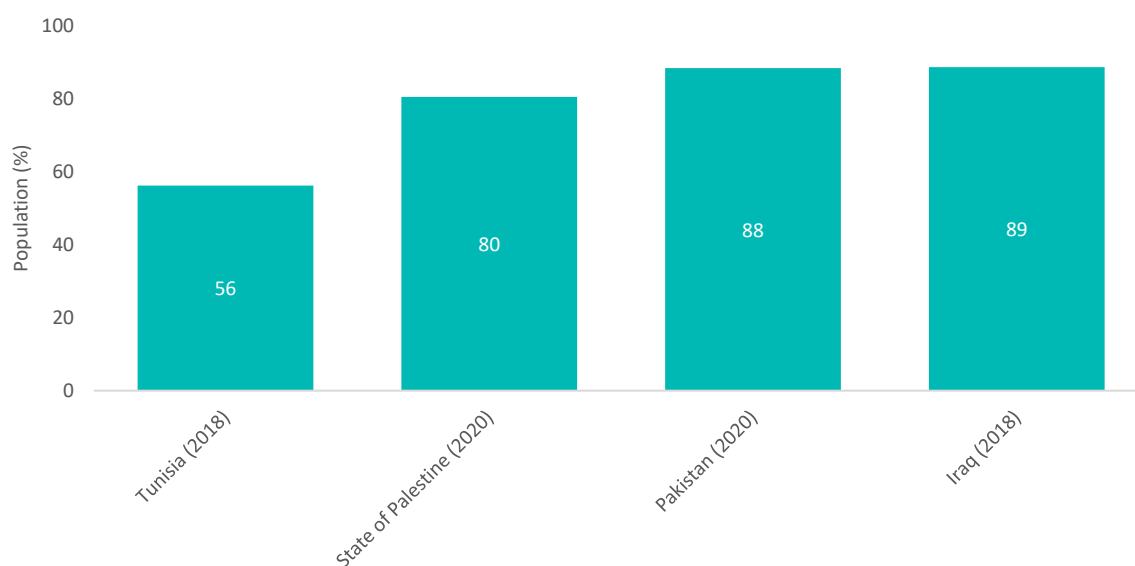


Figure 24: Proportion of women and girls with access to a private place to wash, 2022

# WASH services by wealth quantile

**Basic drinking water by wealth quintile.** Major disparities between the richest and poorest in the EMR countries are found in Afghanistan, Sudan, Somalia and Yemen.

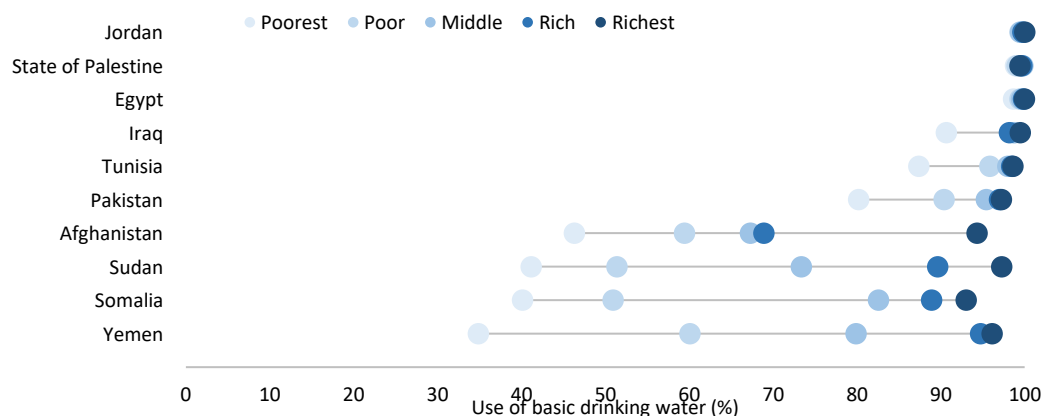


Figure 25: Rich-poor coverage gap for basic drinking water in the EMR

**Basic sanitation by wealth quintile.** Major disparities between the richest and poorest in the EMR countries are found in Pakistan, Yemen, Sudan and Somalia.

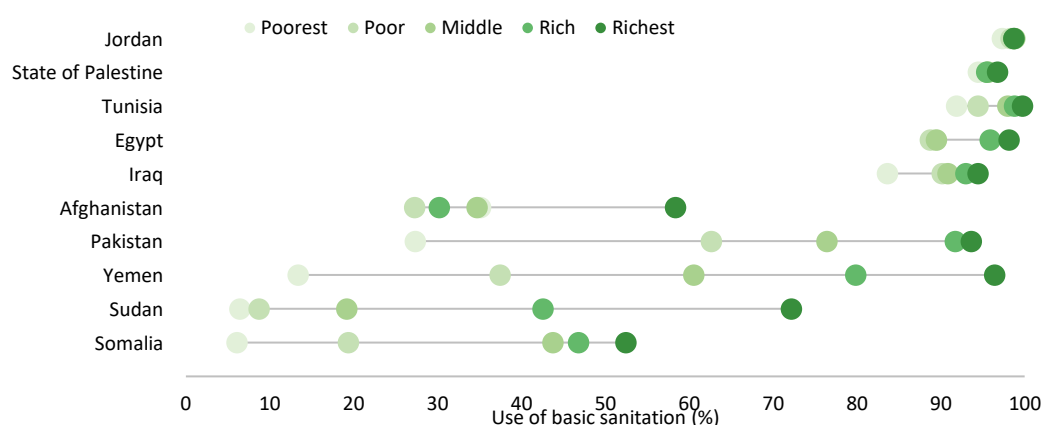


Figure 26: Rich-poor coverage gap for basic sanitation in the EMR

**Basic hygiene by wealth quintile.** Major disparities between the richest and poorest in the EMR countries are found in Afghanistan, Yemen, Pakistan and Sudan.

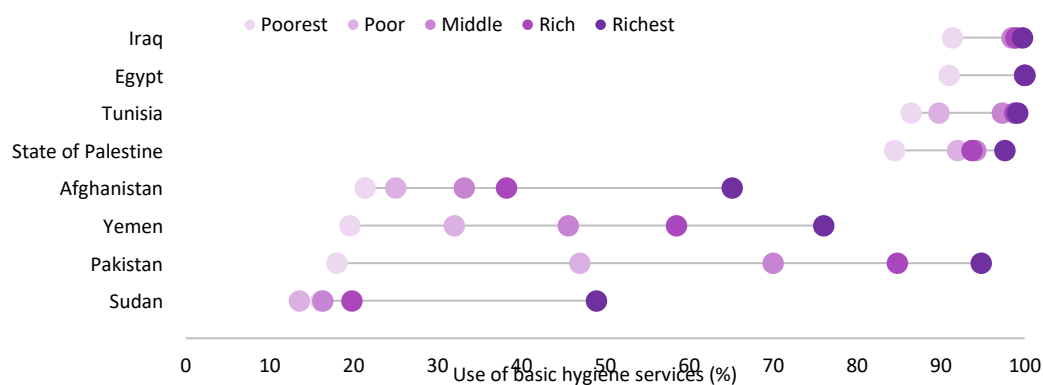


Figure 27: Rich-poor coverage gap for basic hygiene in the EMR

# Basic drinking water estimates

| COUNTRY      | Year | Population (thousands) | % Urban | NATIONAL       |                             |            |               | RURAL          |                             |            |               | URBAN          |                             |            |               |
|--------------|------|------------------------|---------|----------------|-----------------------------|------------|---------------|----------------|-----------------------------|------------|---------------|----------------|-----------------------------|------------|---------------|
|              |      |                        |         | At least basic | Limited (more than 30 mins) | Unimproved | Surface water | At least basic | Limited (more than 30 mins) | Unimproved | Surface water | At least basic | Limited (more than 30 mins) | Unimproved | Surface water |
| Afghanistan  | 2000 | 19 543                 | 22      | 27             | 3                           | 44         | 25            | 20             | 3                           | 47         | 30            | 55             | 4                           | 32         | 9             |
|              | 2022 | 41 129                 | 27      | 82             | 1                           | 10         | 6             | 76             | 1                           | 14         | 8             | 99             | 1                           | <1         | <1            |
| Bahrain      | 2000 | 711                    | 88      | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
|              | 2022 | 1 472                  | 90      | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
| Djibouti     | 2000 | 742                    | 77      | 75             | 15                          | 9          | <1            | 54             | 14                          | 29         | 3             | 82             | 15                          | 3          | <1            |
|              | 2022 | 1 121                  | 78      | 76             | 15                          | 7          | 2             | 47             | 12                          | 31         | 10            | 84             | 16                          | <1         | <1            |
| Egypt        | 2000 | 71 371                 | 43      | 98             | <1                          | 1          | <1            | 97             | <1                          | 2          | <1            | >99            | <1                          | <1         | <1            |
|              | 2022 | 110 990                | 43      | 99             | <1                          | <1         | <1            | 98             | <1                          | 1          | <1            | >99            | <1                          | <1         | <1            |
| Iran         | 2000 | 65 544                 | 64      | 94             | 2                           | 3          | <1            | 87             | 4                           | 8          | <1            | 98             | 1                           | <1         | <1            |
|              | 2022 | 88 551                 | 77      | 98             | 2                           | <1         | <1            | 94             | 4                           | 1          | <1            | 99             | 1                           | <1         | <1            |
| Iraq         | 2000 | 24 629                 | 68      | 81             | 1                           | 7          | 11            | 54             | 3                           | 12         | 31            | 93             | <1                          | 4          | 2             |
|              | 2022 | 44 496                 | 71      | 98             | <1                          | <1         | <1            | 95             | 3                           | <1         | 3             | >99            | <1                          | <1         | <1            |
| Jordan       | 2000 | 5 056                  | 78      | 99             | <1                          | 1          | <1            | 97             | <1                          | 3          | <1            | >99            | <1                          | <1         | <1            |
|              | 2022 | 11 286                 | 92      | 99             | <1                          | <1         | <1            | 97             | <1                          | 2          | <1            | >99            | <1                          | <1         | <1            |
| Kuwait       | 2000 | 1 935                  | 99      | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             | >99            | <1                          | <1         | <1            |
|              | 2022 | 4 269                  | 100     | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             | >99            | <1                          | <1         | <1            |
| Lebanon      | 2000 | 4 321                  | 86      | 84             | 7                           | 9          | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
|              | 2022 | 5 490                  | 89      | 93             | 7                           | <1         | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
| Libya        | 2000 | 5 155                  | 76      | 84             | <1                          | 16         | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
|              | 2022 | 6 812                  | 81      | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
| Morocco      | 2000 | 28 554                 | 53      | 65             | 5                           | 27         | 3             | 33             | 8                           | 53         | 6             | 93             | 2                           | 5          | <1            |
|              | 2022 | 37 458                 | 65      | 87             | 2                           | 11         | <1            | 66             | 6                           | 29         | <1            | 99             | <1                          | 1          | <1            |
| Oman         | 2000 | 2 344                  | 72      | 86             | 9                           | 5          | <1            | 70             | 20                          | 10         | <1            | 92             | 5                           | 3          | <1            |
|              | 2022 | 4 576                  | 88      | 92             | 7                           | <1         | <1            | 76             | 22                          | 2          | <1            | 95             | 5                           | <1         | <1            |
| Pakistan     | 2000 | 154 370                | 33      | 87             | 3                           | 5          | 5             | 83             | 4                           | 6          | 8             | 97             | <1                          | 3          | <1            |
|              | 2022 | 235 825                | 38      | 91             | 4                           | 4          | 1             | 89             | 4                           | 5          | 2             | 93             | 5                           | 2          | <1            |
| Qatar        | 2000 | 646                    | 96      | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
|              | 2022 | 2 695                  | 99      | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             | -              | -                           | -          | -             |
| Saudi Arabia | 2000 | 21 547                 | 80      | -              | -                           | -          | -             | >99            | <1                          | <1         | <1            | -              | -                           | -          | -             |
|              | 2022 | 36 409                 | 85      | 99             | <1                          | <1         | <1            | >99            | <1                          | <1         | <1            | 98             | <1                          | <1         | <1            |
| Somalia      | 2000 | 8 721                  | 33      | 24             | 8                           | 46         | 22            | 6              | 6                           | 57         | 31            | 60             | 13                          | 24         | 3             |
|              | 2022 | 17 598                 | 47      | 58             | 28                          | 12         | 1             | 39             | 38                          | 20         | 3             | 80             | 17                          | 2          | <1            |
| Palestine    | 2000 | 3 140                  | 72      | 91             | <1                          | 8          | 1             | 87             | 1                           | 9          | 3             | 92             | <1                          | 7          | <1            |
|              | 2022 | 5 250                  | 77      | 98             | 1                           | <1         | <1            | >99            | <1                          | <1         | <1            | 98             | 2                           | <1         | <1            |
| Sudan        | 2000 | 26 299                 | 32      | 45             | 20                          | 25         | 11            | 36             | 19                          | 31         | 15            | 62             | 21                          | 14         | 3             |
|              | 2022 | 46 874                 | 36      | 65             | 29                          | 4          | 2             | 60             | 31                          | 6          | 3             | 74             | 25                          | <1         | <1            |
| Syria        | 2000 | 16 308                 | 52      | 92             | 6                           | 2          | <1            | 87             | 8                           | 4          | 1             | 96             | 4                           | <1         | <1            |
|              | 2022 | 22 125                 | 57      | 94             | 6                           | <1         | <1            | 92             | 8                           | <1         | <1            | 96             | 4                           | <1         | <1            |
| Tunisia      | 2000 | 9 893                  | 63      | 89             | 4                           | 7          | <1            | 72             | 9                           | 16         | 2             | 99             | <1                          | 1          | <1            |
|              | 2022 | 12 356                 | 70      | 97             | 2                           | 1          | <1            | 93             | 3                           | 3          | <1            | 99             | <1                          | <1         | <1            |
| UAE          | 2000 | 3 275                  | 80      | >99            | <1                          | <1         | <1            | >99            | <1                          | <1         | <1            | >99            | <1                          | <1         | <1            |
|              | 2022 | 9 441                  | 88      | >99            | <1                          | <1         | <1            | >99            | <1                          | <1         | <1            | >99            | <1                          | <1         | <1            |
| Yemen        | 2000 | 18 629                 | 26      | 41             | 18                          | 35         | 6             | 29             | 17                          | 46         | 8             | 74             | 19                          | 6          | 1             |
|              | 2022 | 33 697                 | 39      | 62             | 29                          | 6          | 2             | 52             | 34                          | 10         | 4             | 77             | 22                          | 1          | <1            |
| EMR          | 2000 | 477 178                | 47      | 81             | 4                           | 10         | 5             | 70             | 6                           | 16         | 8             | 93             | 3                           | 4          | <1            |
|              | 2022 | 779 919                | 52      | 90             | 6                           | 3          | 1             | 84             | 8                           | 6          | 2             | 95             | 4                           | <1         | <1            |

# Safely managed drinking water estimates

| COUNTRY      | Year | Population (thousands) | % Urban | NATIONAL       |                        |                       |                         |       |           | RURAL          |                        |                       |                         |       |           | URBAN          |                        |                       |                         |       |           |
|--------------|------|------------------------|---------|----------------|------------------------|-----------------------|-------------------------|-------|-----------|----------------|------------------------|-----------------------|-------------------------|-------|-----------|----------------|------------------------|-----------------------|-------------------------|-------|-----------|
|              |      |                        |         | Safely managed | Accessible on premises | Available when needed | Free from contamination | Piped | Non-piped | Safely managed | Accessible on premises | Available when needed | Free from contamination | Piped | Non-piped | Safely managed | Accessible on premises | Available when needed | Free from contamination | Piped | Non-piped |
| Afghanistan  | 2000 | 19 543                 | 22      | 11             | 17                     | 28                    | 11                      | 4     | 27        | 8              | 8                      | 21                    | 8                       | <1    | 23        | 21             | 46                     | 52                    | 21                      | 19    | 39        |
|              | 2022 | 41 129                 | 27      | 30             | 47                     | 75                    | 30                      | 23    | 60        | 28             | 37                     | 70                    | 28                      | 17    | 61        | 36             | 77                     | 89                    | 36                      | 42    | 58        |
| Bahrain      | 2000 | 711                    | 88      | 99             | 99                     | >99                   | 99                      | 97    | 3         | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
|              | 2022 | 1 472                  | 90      | 99             | 99                     | >99                   | >99                     | >99   | <1        | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
| Djibouti     | 2000 | 742                    | 77      | -              | 45                     | -                     | -                       | 75    | 15        | -              | 5                      | -                     | -                       | 28    | 40        | -              | 57                     | -                     | -                       | 90    | 7         |
|              | 2022 | 1 121                  | 78      | -              | 47                     | -                     | -                       | 83    | 8         | -              | 5                      | -                     | -                       | 26    | 33        | -              | 58                     | -                     | -                       | >99   | <1        |
| Egypt        | 2000 | 71 371                 | 43      | -              | 90                     | 60                    | -                       | 90    | 9         | -              | 85                     | 59                    | -                       | 83    | 15        | -              | 98                     | 62                    | -                       | 99    | <1        |
|              | 2022 | 110 990                | 43      | -              | 98                     | 82                    | -                       | 99    | <1        | -              | 97                     | 79                    | -                       | 99    | <1        | -              | 98                     | 87                    | -                       | 99    | <1        |
| Iran         | 2000 | 65 544                 | 64      | 90             | 90                     | -                     | 93                      | 93    | 3         | 81             | 81                     | -                     | 83                      | 84    | 7         | 96             | 96                     | -                     | 98                      | 98    | <1        |
|              | 2022 | 88 551                 | 77      | 94             | 94                     | -                     | 98                      | >99   | <1        | 88             | 88                     | -                     | 99                      | 97    | 2         | 96             | 96                     | -                     | 98                      | >99   | <1        |
| Iraq         | 2000 | 24 629                 | 68      | 50             | 73                     | 51                    | 50                      | 76    | 6         | 28             | 33                     | 29                    | 28                      | 42    | 15        | 61             | 91                     | 62                    | 61                      | 92    | 2         |
|              | 2022 | 44 496                 | 71      | 60             | 94                     | 74                    | 60                      | 84    | 16        | 48             | 93                     | 62                    | 48                      | 72    | 25        | 65             | 95                     | 78                    | 65                      | 88    | 12        |
| Jordan       | 2000 | 5 056                  | 78      | 53             | 98                     | 53                    | 98                      | 93    | 5         | -              | 96                     | 57                    | -                       | 84    | 14        | -              | 99                     | 53                    | -                       | 96    | 3         |
|              | 2022 | 11 286                 | 92      | 86             | 98                     | 86                    | 98                      | 86    | 13        | -              | 97                     | 87                    | -                       | 80    | 18        | -              | 99                     | 86                    | -                       | 87    | 13        |
| Kuwait       | 2000 | 1 935                  | 99      | >99            | >99                    | >99                   | >99                     | -     | -         | -              | -                      | -                     | -                       | -     | -         | >99            | >99                    | >99                   | >99                     | -     | -         |
|              | 2022 | 4 269                  | 100     | >99            | >99                    | >99                   | >99                     | -     | -         | -              | -                      | -                     | -                       | -     | -         | >99            | >99                    | >99                   | >99                     | -     | -         |
| Lebanon      | 2000 | 4 321                  | 86      | 43             | 82                     | 82                    | 43                      | 80    | 11        | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
|              | 2022 | 5 490                  | 89      | 48             | 90                     | 90                    | 48                      | 90    | 10        | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
| Libya        | 2000 | 5 155                  | 76      | -              | 75                     | 81                    | -                       | 59    | 25        | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
|              | 2022 | 6 812                  | 81      | -              | 90                     | 96                    | -                       | 78    | 22        | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
| Morocco      | 2000 | 28 554                 | 53      | 42             | 42                     | 69                    | 62                      | 59    | 10        | 11             | 11                     | 38                    | 34                      | 20    | 21        | 68             | 68                     | 95                    | 87                      | 94    | <1        |
|              | 2022 | 37 458                 | 65      | 75             | 83                     | 75                    | 79                      | 79    | 10        | 47             | 54                     | 47                    | 59                      | 53    | 19        | 90             | 99                     | 91                    | 90                      | 94    | 5         |
| Oman         | 2000 | 2 344                  | 72      | 84             | 84                     | -                     | 91                      | 77    | 18        | -              | 68                     | -                     | -                       | 62    | 28        | -              | 90                     | 97                    | -                       | 82    | 15        |
|              | 2022 | 4 576                  | 88      | 91             | 91                     | -                     | >99                     | 96    | 4         | -              | 73                     | -                     | -                       | 84    | 13        | -              | 93                     | >99                   | -                       | 97    | 3         |
| Pakistan     | 2000 | 154 370                | 33      | 35             | 84                     | 78                    | 35                      | 37    | 53        | 29             | 78                     | 76                    | 29                      | 20    | 67        | 46             | 97                     | 83                    | 46                      | 71    | 25        |
|              | 2022 | 235 825                | 38      | 51             | 69                     | 82                    | 51                      | 25    | 70        | 47             | 70                     | 82                    | 47                      | 17    | 77        | 57             | 66                     | 83                    | 57                      | 39    | 58        |
| Qatar        | 2000 | 646                    | 96      | 96             | 96                     | >99                   | 98                      | -     | -         | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
|              | 2022 | 2 695                  | 99      | 97             | >99                    | >99                   | 97                      | >99   | <1        | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
| Saudi Arabia | 2000 | 21 547                 | 80      | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         | -              | -                      | -                     | -                       | -     | -         |
|              | 2022 | 36 409                 | 85      | -              | 98                     | 86                    | -                       | 89    | 10        | -              | -                      | -                     | -                       | 84    | 16        | -              | -                      | -                     | -                       | 91    | 9         |
| Somalia      | 2000 | 8 721                  | 33      | -              | 12                     | 24                    | -                       | 10    | 22        | -              | <1                     | 7                     | -                       | 3     | 9         | -              | 34                     | 60                    | -                       | 24    | 48        |
|              | 2022 | 17 598                 | 47      | -              | 38                     | 62                    | -                       | 49    | 37        | -              | 9                      | 44                    | -                       | 23    | 54        | -              | 69                     | 81                    | -                       | 79    | 19        |
| Palestine    | 2000 | 3 140                  | 72      | 73             | 82                     | 81                    | 73                      | 85    | 6         | 68             | 83                     | 77                    | 68                      | 70    | 19        | 75             | 82                     | 82                    | 75                      | 90    | 2         |
|              | 2022 | 5 250                  | 77      | 80             | 94                     | 89                    | 80                      | 51    | 49        | 76             | >99                    | 87                    | 76                      | 89    | 11        | 81             | 92                     | 89                    | 81                      | 40    | 60        |
| Sudan        | 2000 | 26 299                 | 32      | -              | 29                     | 34                    | -                       | 27    | 37        | -              | 17                     | 29                    | -                       | 16    | 38        | -              | 54                     | 44                    | -                       | 49    | 35        |
|              | 2022 | 46 874                 | 36      | -              | 41                     | 55                    | -                       | 59    | 34        | -              | 28                     | 50                    | -                       | 47    | 44        | -              | 64                     | 64                    | -                       | 82    | 17        |
| Syria        | 2000 | 16 308                 | 52      | -              | 83                     | 90                    | -                       | 82    | 15        | -              | 73                     | 86                    | -                       | 70    | 25        | -              | 92                     | 94                    | -                       | 94    | 6         |
|              | 2022 | 22 125                 | 57      | -              | 86                     | 93                    | -                       | 79    | 21        | -              | 77                     | 91                    | -                       | 71    | 29        | -              | 92                     | 94                    | -                       | 86    | 14        |
| Tunisia      | 2000 | 9 893                  | 63      | 72             | 88                     | 77                    | 74                      | 80    | 12        | 52             | 72                     | 52                    | 58                      | 57    | 25        | 83             | 97                     | 91                    | 83                      | 94    | 5         |
|              | 2022 | 12 356                 | 70      | 74             | 89                     | 74                    | 79                      | 93    | 6         | 67             | 78                     | 67                    | 68                      | 80    | 17        | 77             | 94                     | 77                    | 84                      | 99    | <1        |
| UAE          | 2000 | 3 275                  | 80      | -              | 98                     | >99                   | -                       | -     | -         | -              | 98                     | -                     | -                       | -     | -         | -              | 98                     | -                     | -                       | >99   | <1        |
|              | 2022 | 9 441                  | 88      | -              | 99                     | >99                   | -                       | >99   | <1        | -              | 98                     | -                     | -                       | >99   | <1        | -              | 99                     | -                     | -                       | >99   | <1        |
| Yemen        | 2000 | 18 629                 | 26      | -              | 32                     | 37                    | -                       | 38    | 20        | -              | 18                     | 30                    | -                       | 28    | 18        | -              | 70                     | 57                    | -                       | 67    | 26        |
|              | 2022 | 33 697                 | 39      | -              | 50                     | 58                    | -                       | 57    | 34        | -              | 34                     | 55                    | -                       | 44    | 42        | -              | 74                     | 61                    | -                       | 77    | 22        |
| EMR          | 2000 | 477 178                | 47      | 53             | 74                     | 68                    | 53                      | 60    | 25        | 38             | 61                     | 60                    | 38                      | 40    | 36        | 71             | 89                     | 76                    | 71                      | 83    | 12        |
|              | 2022 | 779 919                | 52      | 67             | 77                     | 78                    | 67                      | 64    | 32        | 56             | 67                     | 73                    | 56                      | 47    | 45        | 76             | 86                     | 83                    | 76                      | 79    | 20        |

# Basic sanitation estimates

| COUNTRY      | Year | Population (thousands) | % Urban | NATIONAL       |                  |            |                 | RURAL          |                  |            |                 | URBAN          |                  |            |                 |
|--------------|------|------------------------|---------|----------------|------------------|------------|-----------------|----------------|------------------|------------|-----------------|----------------|------------------|------------|-----------------|
|              |      |                        |         | At least basic | Limited (shared) | Unimproved | Open defecation | At least basic | Limited (shared) | Unimproved | Open defecation | At least basic | Limited (shared) | Unimproved | Open defecation |
| Afghanistan  | 2000 | 19 543                 | 22      | 21             | 5                | 48         | 26              | 18             | 3                | 47         | 32              | 31             | 14               | 48         | 6               |
|              | 2022 | 41 129                 | 27      | 56             | 12               | 23         | 9               | 51             | 8                | 29         | 12              | 70             | 23               | 7          | <1              |
| Bahrain      | 2000 | 711                    | 88      | >99            | <1               | <1         | <1              | -              | -                | -          | -               | -              | -                | -          | -               |
|              | 2022 | 1 472                  | 90      | >99            | <1               | <1         | <1              | -              | -                | -          | -               | -              | -                | -          | -               |
| Djibouti     | 2000 | 742                    | 77      | 47             | 4                | 30         | 19              | 12             | 1                | 19         | 68              | 58             | 4                | 34         | 4               |
|              | 2022 | 1 121                  | 78      | 67             | 7                | 10         | 16              | 22             | 2                | 12         | 64              | 79             | 8                | 10         | 3               |
| Egypt        | 2000 | 71 371                 | 43      | 91             | 6                | <1         | 2               | 89             | 7                | 2          | 2               | 95             | 4                | <1         | <1              |
|              | 2022 | 110 990                | 43      | 98             | 2                | <1         | <1              | 96             | 3                | 1          | <1              | >99            | <1               | <1         | <1              |
| Iran         | 2000 | 65 544                 | 64      | 78             | 9                | 12         | <1              | 61             | 13               | 24         | 1               | 88             | 7                | 5          | <1              |
|              | 2022 | 88 551                 | 77      | 90             | 10               | <1         | -               | 82             | 18               | <1         | -               | 93             | 7                | <1         | <1              |
| Iraq         | 2000 | 24 629                 | 68      | 71             | 15               | 10         | 5               | 55             | 9                | 21         | 15              | 78             | 17               | 5          | <1              |
|              | 2022 | 44 496                 | 71      | 98             | <1               | 1          | <1              | 98             | <1               | 2          | <1              | 99             | <1               | 1          | <1              |
| Jordan       | 2000 | 5 056                  | 78      | 99             | 1                | <1         | <1              | 98             | <1               | <1         | 1               | 99             | 1                | <1         | <1              |
|              | 2022 | 11 286                 | 92      | 97             | 2                | 1          | <1              | 95             | 3                | 2          | <1              | 97             | 2                | 1          | <1              |
| Kuwait       | 2000 | 1 935                  | 99      | >99            | <1               | <1         | <1              | -              | -                | -          | -               | >99            | <1               | <1         | <1              |
|              | 2022 | 4 269                  | 100     | >99            | <1               | <1         | <1              | -              | -                | -          | -               | >99            | <1               | <1         | <1              |
| Lebanon      | 2000 | 4 321                  | 86      | 77             | <1               | 22         | <1              | -              | -                | -          | -               | -              | -                | -          | -               |
|              | 2022 | 5 490                  | 89      | >99            | <1               | <1         | <1              | -              | -                | -          | -               | -              | -                | -          | -               |
| Libya        | 2000 | 5 155                  | 76      | 90             | 7                | 3          | -               | -              | -                | -          | -               | -              | -                | -          | -               |
|              | 2022 | 6 812                  | 81      | 92             | 7                | <1         | <1              | -              | -                | -          | -               | -              | -                | -          | -               |
| Morocco      | 2000 | 28 554                 | 53      | 68             | 9                | <1         | 23              | 49             | 4                | <1         | 47              | 84             | 13               | <1         | 2               |
|              | 2022 | 37 458                 | 65      | 88             | 2                | 11         | <1              | 71             | <1               | 28         | <1              | 96             | 2                | 2          | <1              |
| Oman         | 2000 | 2 344                  | 72      | 89             | <1               | 10         | -               | 78             | <1               | 21         | -               | 94             | <1               | 5          | <1              |
|              | 2022 | 4 576                  | 88      | >99            | <1               | <1         | <1              | >99            | <1               | <1         | <1              | >99            | <1               | <1         | <1              |
| Pakistan     | 2000 | 154 370                | 33      | 31             | 4                | 28         | 37              | 14             | 2                | 30         | 53              | 64             | 7                | 24         | 5               |
|              | 2022 | 235 825                | 38      | 71             | 11               | 12         | 7               | 63             | 13               | 13         | 11              | 82             | 8                | 9          | <1              |
| Qatar        | 2000 | 646                    | 96      | >99            | <1               | <1         | <1              | -              | -                | -          | -               | -              | -                | -          | -               |
|              | 2022 | 2 695                  | 99      | >99            | <1               | <1         | <1              | -              | -                | -          | -               | -              | -                | -          | -               |
| Saudi Arabia | 2000 | 21 547                 | 80      | 95             | 5                | <1         | <1              | 92             | 7                | <1         | <1              | 96             | 4                | <1         | <1              |
|              | 2022 | 36 409                 | 85      | 95             | 4                | <1         | <1              | 92             | 7                | <1         | <1              | 96             | 4                | <1         | <1              |
| Somalia      | 2000 | 8 721                  | 33      | 20             | 13               | 8          | 59              | 7              | 6                | 5          | 82              | 46             | 26               | 15         | 12              |
|              | 2022 | 17 598                 | 47      | 41             | 17               | 21         | 21              | 26             | 9                | 25         | 40              | 57             | 26               | 17         | <1              |
| Palestine    | 2000 | 3 140                  | 72      | 90             | 8                | <1         | <1              | 87             | 11               | <1         | 2               | 92             | 7                | <1         | <1              |
|              | 2022 | 5 250                  | 77      | >99            | <1               | <1         | <1              | 99             | <1               | <1         | <1              | >99            | <1               | <1         | <1              |
| Sudan        | 2000 | 26 299                 | 32      | 21             | 5                | 24         | 50              | 11             | 3                | 21         | 65              | 40             | 10               | 30         | 20              |
|              | 2022 | 46 874                 | 36      | -              | -                | -          | -               | -              | -                | -          | -               | -              | -                | -          | -               |
| Syria        | 2000 | 16 308                 | 52      | 88             | 8                | 2          | 2               | 84             | 9                | 3          | 4               | 92             | 7                | 1          | <1              |
|              | 2022 | 22 125                 | 57      | 95             | 5                | <1         | -               | 94             | 6                | <1         | -               | 96             | 4                | <1         | <1              |
| Tunisia      | 2000 | 9 893                  | 63      | 77             | 8                | 6          | 10              | 48             | 16               | 11         | 25              | 93             | 3                | 3          | <1              |
|              | 2022 | 12 356                 | 70      | 97             | 2                | <1         | <1              | 97             | 2                | <1         | <1              | 98             | 1                | 1          | <1              |
| UAE          | 2000 | 3 275                  | 80      | >99            | <1               | <1         | <1              | >99            | <1               | <1         | <1              | 99             | <1               | <1         | <1              |
|              | 2022 | 9 441                  | 88      | >99            | <1               | <1         | <1              | >99            | <1               | <1         | <1              | 99             | <1               | <1         | <1              |
| Yemen        | 2000 | 18 629                 | 26      | 45             | 2                | 20         | 32              | 30             | 3                | 26         | 42              | 89             | 1                | 6          | 4               |
|              | 2022 | 33 697                 | 39      | 55             | 5                | 32         | 9               | 40             | 5                | 42         | 14              | 78             | 5                | 16         | <1              |
| EMR          | 2000 | 477 178                | 47      | 58             | 6                | 15         | 20              | 39             | 5                | 21         | 35              | 80             | 7                | 10         | 3               |
|              | 2022 | 779 919                | 52      | 82             | 7                | 7          | 5               | 72             | 8                | 11         | 8               | 91             | 5                | 3          | <1              |

# Safely managed sanitation estimates

| COUNTRY      | Year | Population (thousands) | % Urban | NATIONAL                                                |                     |                     |                    |                                                         |              |                   | RURAL                                                   |                     |                     |                    |                                                         |              |                   | URBAN                                                   |                     |                     |                                                         |                    |              |                   |
|--------------|------|------------------------|---------|---------------------------------------------------------|---------------------|---------------------|--------------------|---------------------------------------------------------|--------------|-------------------|---------------------------------------------------------|---------------------|---------------------|--------------------|---------------------------------------------------------|--------------|-------------------|---------------------------------------------------------|---------------------|---------------------|---------------------------------------------------------|--------------------|--------------|-------------------|
|              |      |                        |         | population using improved sanitation (excluding shared) |                     |                     |                    | population using improved sanitation (including shared) |              |                   | population using improved sanitation (excluding shared) |                     |                     |                    | population using improved sanitation (including shared) |              |                   | population using improved sanitation (excluding shared) |                     |                     | population using improved sanitation (including shared) |                    |              |                   |
|              |      |                        |         | Safely managed                                          | Disposed of in situ | Emptied and treated | Wastewater treated | Latrines and other                                      | Septic tanks | Sewer connections | Safely managed                                          | Disposed of in situ | Emptied and treated | Wastewater treated | Latrines and other                                      | Septic tanks | Sewer connections | Safely managed                                          | Disposed of in situ | Emptied and treated | Wastewater treated                                      | Latrines and other | Septic tanks | Sewer connections |
| Afghanistan  | 2000 | 19 543                 | 22      | -                                                       | -                   | -                   | -                  | 18                                                      | 6            | 2                 | -                                                       | -                   | -                   | -                  | 19                                                      | 1            | <1                | -                                                       | -                   | -                   | -                                                       | 12                 | 25           | 7                 |
|              | 2022 | 41 129                 | 27      | -                                                       | -                   | -                   | -                  | 55                                                      | 9            | 3                 | -                                                       | -                   | -                   | -                  | 56                                                      | 2            | 1                 | -                                                       | -                   | -                   | -                                                       | 55                 | 29           | 9                 |
| Bahrain      | 2000 | 711                    | 88      | 86                                                      | <1                  | 14                  | 72                 | <1                                                      | 28           | 72                | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
|              | 2022 | 1 472                  | 90      | 92                                                      | <1                  | 7                   | 85                 | <1                                                      | 14           | 86                | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
| Djibouti     | 2000 | 742                    | 77      | 26                                                      | 24                  | <1                  | 2                  | 34                                                      | 11           | 5                 | 11                                                      | 11                  | <1                  | <1                 | 13                                                      | <1           | <1                | 31                                                      | 28                  | <1                  | 3                                                       | 41                 | 15           | 7                 |
|              | 2022 | 1 121                  | 78      | 40                                                      | 37                  | <1                  | 2                  | 57                                                      | 11           | 5                 | 21                                                      | 21                  | <1                  | <1                 | 24                                                      | <1           | <1                | 45                                                      | 42                  | <1                  | 3                                                       | 67                 | 15           | 7                 |
| Egypt        | 2000 | 71 371                 | 43      | 54                                                      | 18                  | 13                  | 23                 | 11                                                      | 53           | 33                | 46                                                      | 23                  | 18                  | 6                  | 11                                                      | 77           | 8                 | 65                                                      | 11                  | 8                   | 46                                                      | 11                 | 22           | 66                |
|              | 2022 | 110 990                | 43      | 67                                                      | 7                   | 5                   | 55                 | 4                                                       | 21           | 74                | 63                                                      | 12                  | 9                   | 42                 | 7                                                       | 37           | 55                | 73                                                      | <1                  | <1                  | 72                                                      | <1                 | <1           | >99               |
| Iran         | 2000 | 65 544                 | 64      | -                                                       | -                   | -                   | 8                  | 74                                                      | <1           | 13                | -                                                       | -                   | -                   | 2                  | 70                                                      | <1           | 4                 | 82                                                      | 35                  | 35                  | 11                                                      | 75                 | <1           | 18                |
|              | 2022 | 88 551                 | 77      | -                                                       | -                   | -                   | 24                 | 60                                                      | 1            | 39                | -                                                       | -                   | -                   | <1                 | 99                                                      | 1            | <1                | 76                                                      | 23                  | 23                  | 31                                                      | 48                 | 1            | 51                |
| Iraq         | 2000 | 24 629                 | 68      | 26                                                      | 13                  | <1                  | 12                 | 23                                                      | 40           | 22                | 23                                                      | 23                  | <1                  | <1                 | 29                                                      | 34           | <1                | 27                                                      | 9                   | <1                  | 18                                                      | 20                 | 43           | 32                |
|              | 2022 | 44 496                 | 71      | 53                                                      | 26                  | <1                  | 27                 | 7                                                       | 62           | 30                | 48                                                      | 41                  | <1                  | 7                  | 8                                                       | 82           | 8                 | 55                                                      | 20                  | <1                  | 35                                                      | 6                  | 53           | 39                |
| Jordan       | 2000 | 5 056                  | 78      | 76                                                      | 11                  | 11                  | 53                 | <1                                                      | 46           | 54                | -                                                       | -                   | -                   | <1                 | <1                                                      | 99           | <1                | 83                                                      | 8                   | 8                   | 68                                                      | <1                 | 31           | 69                |
|              | 2022 | 11 286                 | 92      | 82                                                      | 8                   | 8                   | 66                 | 2                                                       | 30           | 67                | -                                                       | -                   | -                   | 20                 | 3                                                       | 74           | 20                | 84                                                      | 7                   | 7                   | 70                                                      | 2                  | 26           | 71                |
| Kuwait       | 2000 | 1 935                  | 99      | >99                                                     | <1                  | <1                  | >99                | <1                                                      | -            | >99               | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | >99                                                     | <1                  | <1                  | >99                                                     | <1                 | -            | >99               |
|              | 2022 | 4 269                  | 100     | >99                                                     | <1                  | <1                  | >99                | <1                                                      | -            | >99               | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | >99                                                     | <1                  | <1                  | >99                                                     | <1                 | -            | >99               |
| Lebanon      | 2000 | 4 321                  | 86      | 18                                                      | 3                   | <1                  | 14                 | <1                                                      | 13           | 64                | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
|              | 2022 | 5 490                  | 89      | 26                                                      | 7                   | 2                   | 17                 | 8                                                       | 13           | 79                | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
| Libya        | 2000 | 5 155                  | 76      | 27                                                      | 16                  | 3                   | 8                  | 31                                                      | 9            | 58                | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
|              | 2022 | 6 812                  | 81      | 24                                                      | 12                  | 2                   | 10                 | 22                                                      | 8            | 69                | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
| Morocco      | 2000 | 28 554                 | 53      | 49                                                      | 11                  | 9                   | 14                 | 17                                                      | 15           | 45                | -                                                       | -                   | -                   | <1                 | 28                                                      | 23           | 2                 | 32                                                      | 5                   | 2                   | 26                                                      | 7                  | 7            | 83                |
|              | 2022 | 37 458                 | 65      | 61                                                      | 9                   | 8                   | 21                 | 10                                                      | 17           | 62                | -                                                       | -                   | -                   | <1                 | 28                                                      | 39           | 6                 | 34                                                      | 1                   | <1                  | 33                                                      | <1                 | 5            | 93                |
| Oman         | 2000 | 2 344                  | 72      | -                                                       | -                   | -                   | 18                 | <1                                                      | 72           | 18                | -                                                       | -                   | -                   | 2                  | <1                                                      | 77           | 2                 | -                                                       | -                   | -                   | 24                                                      | <1                 | 70           | 24                |
|              | 2022 | 4 576                  | 88      | -                                                       | -                   | -                   | 22                 | 2                                                       | 76           | 22                | -                                                       | -                   | -                   | 2                  | 6                                                       | 92           | 2                 | -                                                       | -                   | -                   | 24                                                      | 2                  | 74           | 24                |
| Pakistan     | 2000 | 154 370                | 33      | -                                                       | 6                   | -                   | -                  | <1                                                      | 16           | 19                | 6                                                       | 5                   | <1                  | <1                 | <1                                                      | 15           | 2                 | -                                                       | 7                   | -                   | -                                                       | <1                 | 19           | 52                |
|              | 2022 | 235 825                | 38      | -                                                       | 28                  | -                   | -                  | 22                                                      | 31           | 29                | 40                                                      | 37                  | <1                  | 4                  | 30                                                      | 37           | 8                 | -                                                       | 14                  | -                   | -                                                       | 8                  | 20           | 62                |
| Qatar        | 2000 | 646                    | 96      | 88                                                      | 6                   | 6                   | 75                 | <1                                                      | 25           | 75                | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
|              | 2022 | 2 695                  | 99      | >99                                                     | <1                  | <1                  | >99                | <1                                                      | <1           | >99               | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
| Saudi Arabia | 2000 | 21 547                 | 80      | 79                                                      | 7                   | 7                   | 65                 | 1                                                       | 27           | 71                | -                                                       | -                   | -                   | 41                 | 4                                                       | 50           | 46                | 82                                                      | 6                   | 5                   | 71                                                      | <1                 | 22           | 77                |
|              | 2022 | 36 409                 | 85      | 80                                                      | 7                   | 7                   | 67                 | 1                                                       | 26           | 72                | -                                                       | -                   | -                   | 41                 | 4                                                       | 50           | 46                | 82                                                      | 6                   | 5                   | 71                                                      | <1                 | 22           | 77                |
| Somalia      | 2000 | 8 721                  | 33      | 16                                                      | 13                  | <1                  | 3                  | 25                                                      | <1           | 8                 | 6                                                       | 6                   | <1                  | <1                 | 13                                                      | <1           | <1                | 34                                                      | 27                  | <1                  | 8                                                       | 48                 | <1           | 24                |
|              | 2022 | 17 598                 | 47      | 33                                                      | 31                  | <1                  | 2                  | 47                                                      | 5            | 6                 | 22                                                      | 21                  | <1                  | 1                  | 30                                                      | 2            | 3                 | 45                                                      | 41                  | <1                  | 3                                                       | 67                 | 7            | 9                 |
| Palestine    | 2000 | 3 140                  | 72      | 44                                                      | 6                   | 5                   | 33                 | <1                                                      | 49           | 49                | 14                                                      | 9                   | <1                  | 5                  | <1                                                      | 87           | 10                | 56                                                      | 4                   | 7                   | 44                                                      | <1                 | 35           | 64                |
|              | 2022 | 5 250                  | 77      | 70                                                      | 27                  | 5                   | 38                 | 35                                                      | 12           | 52                | 55                                                      | 48                  | <1                  | 6                  | 65                                                      | 22           | 12                | 75                                                      | 20                  | 7                   | 48                                                      | 26                 | 9            | 64                |
| Sudan        | 2000 | 26 299                 | 32      | -                                                       | -                   | -                   | -                  | 24                                                      | 1            | <1                | -                                                       | -                   | -                   | -                  | 14                                                      | <1           | <1                | -                                                       | -                   | -                   | -                                                       | 46                 | 4            | <1                |
|              | 2022 | 46 874                 | 36      | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                  | -                                                       | -            | -                 | -                                                       | -                   | -                   | -                                                       | -                  | -            | -                 |
| Syria        | 2000 | 16 308                 | 52      | -                                                       | -                   | -                   | -                  | 24                                                      | 5            | 68                | -                                                       | -                   | -                   | -                  | 46                                                      | 9            | 38                | -                                                       | -                   | -                   | -                                                       | 3                  | 2            | 95                |
|              | 2022 | 22 125                 | 57      | -                                                       | -                   | -                   | -                  | 2                                                       | 9            | 89                | -                                                       | -                   | -                   | -                  | 3                                                       | 19           | 77                | -                                                       | -                   | -                   | -                                                       | <1                 | <1           | 99                |
| Tunisia      | 2000 | 9 893                  | 63      | 54                                                      | 12                  | <1                  | 41                 | 7                                                       | 29           | 48                | 25                                                      | 22                  | <1                  | 3                  | 19                                                      | 40           | 4                 | 71                                                      | 7                   | 1                   | 63                                                      | <1                 | 23           | 74                |
|              | 2022 | 12 356                 | 70      | 81                                                      | 21                  | <1                  | 59                 | 22                                                      | 17           | 60                | 63                                                      | 53                  | <1                  | 10                 | 51                                                      | 38           | 10                | 89                                                      | 8                   | 1                   | 80                                                      | 9                  | 8            | 82                |
| UAE          | 2000 | 3 275                  | 80      | 98                                                      | 3                   | 3                   | 92                 | 6                                                       | 1            | 93                | 98                                                      | 6                   | 6                   | 86                 | 11                                                      | 3            | 86                | 98                                                      | 2                   | 2                   | 94                                                      | 4                  | 1            | 94                |
|              | 2022 | 9 441                  | 88      | 98                                                      | 3                   | 3                   | 93                 | 5                                                       | 1            | 93                | 99                                                      | 6                   | 6                   | 86                 | 11                                                      | 3            | 86                | 98                                                      | 2                   | 2                   | 94                                                      | 4                  | 1            | 94                |
| Yemen        | 2000 | 18 629                 | 26      | 25                                                      | 17                  | 5                   | 7                  | 32                                                      | 7            | 9                 | -                                                       | -                   | -                   | <1                 | 29                                                      | 3            | <1                | 70                                                      | 24                  | 20                  | 27                                                      | 38                 | 19           | 33                |
|              | 2022 | 33 697                 | 39      | 19                                                      | 8                   | 2                   | 22                 | 5                                                       | 24           | 31                | -                                                       | -                   | -                   | <1                 | 8                                                       | 30           | 7                 | 60                                                      | 3                   | 3                   | 54                                                      | <1                 | 14           | 69                |
| EMR          | 2000 | 477 178                | 47      | -                                                       | -                   | -                   | 16                 | 19                                                      | 21           | 25                | -                                                       | -                   | -                   | 4                  | 17                                                      | 22           | 5                 | 29                                                      | -                   | -                   | 29                                                      | 22                 | 19           | 46                |
|              | 2022 | 779 919                | 52      | 55                                                      | 20                  | 4                   | 30                 | 21                                                      | 22           | 46                | 47                                                      | 30                  | 3                   | 14                 | 27                                                      | 32           | 21                | 62                                                      | 15                  | 5                   | 45                                                      | 14                 | 14           | 68                |

# Hygiene estimates

| COUNTRY      | Year | Population (thousands) | % Urban | NATIONAL |                                 |             | RURAL |                                 |             | URBAN |                                 |             |
|--------------|------|------------------------|---------|----------|---------------------------------|-------------|-------|---------------------------------|-------------|-------|---------------------------------|-------------|
|              |      |                        |         | Basic    | Limited (without water or soap) | No facility | Basic | Limited (without water or soap) | No facility | Basic | Limited (without water or soap) | No facility |
| Afghanistan  | 2000 | 19 543                 | 22      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 41 129                 | 27      | 48       | 46                              | 6           | 44    | 49                              | 6           | 59    | 37                              | 4           |
| Bahrain      | 2000 | 711                    | 88      | >99      | <1                              | <1          | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 1 472                  | 90      | >99      | <1                              | <1          | -     | -                               | -           | -     | -                               | -           |
| Djibouti     | 2000 | 742                    | 77      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 1 121                  | 78      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Egypt        | 2000 | 71 371                 | 43      | 66       | 16                              | 18          | 51    | 20                              | 29          | 86    | 10                              | 4           |
|              | 2022 | 110 990                | 43      | -        | -                               | -           | -     | -                               | <1          | -     | -                               | -           |
| Iran         | 2000 | 65 544                 | 64      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 88 551                 | 77      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Iraq         | 2000 | 24 629                 | 68      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 44 496                 | 71      | 97       | 2                               | <1          | 97    | 3                               | <1          | 98    | 2                               | <1          |
| Jordan       | 2000 | 5 056                  | 78      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 11 286                 | 92      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Kuwait       | 2000 | 1 935                  | 99      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 4 269                  | 100     | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Lebanon      | 2000 | 4 321                  | 86      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 5 490                  | 89      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Libya        | 2000 | 5 155                  | 76      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 6 812                  | 81      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Morocco      | 2000 | 28 554                 | 53      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 37 458                 | 65      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Oman         | 2000 | 2 344                  | 72      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 4 576                  | 88      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Pakistan     | 2000 | 154 370                | 33      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 235 825                | 38      | 85       | 14                              | <1          | 80    | 19                              | 1           | 92    | 7                               | <1          |
| Qatar        | 2000 | 646                    | 96      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 2 695                  | 99      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Saudi Arabia | 2000 | 21 547                 | 80      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 36 409                 | 85      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Somalia      | 2000 | 8 721                  | 33      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 17 598                 | 47      | 25       | 54                              | 21          | 19    | 55                              | 26          | 32    | 54                              | 15          |
| Palestine    | 2000 | 3 140                  | 72      | -        | -                               | -           | -     | -                               | -           | -     | -                               | <1          |
|              | 2022 | 5 250                  | 77      | 95       | 5                               | <1          | 96    | 3                               | 1           | 95    | 5                               | <1          |
| Sudan        | 2000 | 26 299                 | 32      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 46 874                 | 36      | 11       | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Syria        | 2000 | 16 308                 | 52      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 22 125                 | 57      | 84       | 11                              | 5           | 81    | 12                              | 7           | 87    | 9                               | 4           |
| Tunisia      | 2000 | 9 893                  | 63      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 12 356                 | 70      | 84       | 5                               | 11          | 67    | 9                               | 24          | 91    | 3                               | 5           |
| UAE          | 2000 | 3 275                  | 80      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 9 441                  | 88      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| Yemen        | 2000 | 18 629                 | 26      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 33 697                 | 39      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
| EMR          | 2000 | 477 178                | 47      | -        | -                               | -           | -     | -                               | -           | -     | -                               | -           |
|              | 2022 | 779 919                | 52      | 72       | -                               | -           | 61    | 37                              | 3           | -     | -                               | -           |

| Drinking water                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sanitation                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hygiene                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>In 2022,</p> <ul style="list-style-type: none"> <li>- 67% of the EMR population had access to safely managed drinking water services.</li> <li>- 90% of the EMR population had access to at least basic drinking water services.</li> <li>- 6% of the EMR population had access to limited drinking water services.</li> <li>- 3% of the EMR population had access to unimproved water sources.</li> <li>- 1% of the EMR population had access to surface water sources.</li> </ul> | <p>In 2022,</p> <ul style="list-style-type: none"> <li>- 55% of the EMR population had access to safely managed sanitation services.</li> <li>- 82% of the EMR population had access to at least basic sanitation services.</li> <li>- 7% of the EMR population had access to limited sanitation services.</li> <li>- 7% of the EMR population had access to unimproved sanitation facilities.</li> <li>- 5% of the EMR population still practicing open defecation.</li> </ul> | <p>In 2022,</p> <ul style="list-style-type: none"> <li>- 72% of the EMR population had access to basic hygiene services.</li> <li>- No estimate could be produced for limited hygiene services (without water or soap).</li> <li>- No estimate was available for the EMR population that had no access to handwashing facilities.</li> </ul> |

### The Unfinished Agenda

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Extending safely managed drinking water service to 33% (258 million) in the region.</li> <li>• Extending basic drinking water service to 10% (78 million) in the region mainly in Pakistan, Sudan, Yemen, Somalia and Afghanistan.</li> <li>• Improving monitoring and reporting on drinking water services. Reporting on safely managed drinking water services was not available in 9 countries, due to lack of reporting on availability and drinking water quality.</li> </ul> | <ul style="list-style-type: none"> <li>• Extending safely managed sanitation services to 45% (351 million) in the region.</li> <li>• Extending basic sanitation services to 18% (138 million) in the region mainly in Pakistan, Afghanistan, Yemen, Somalia and Iran.</li> <li>• Improving monitoring and reporting on sanitation services. Reporting on safely managed sanitation services was not available in 6 countries, due to lack of reporting on wastewater treatment and safe disposal.</li> </ul> | <ul style="list-style-type: none"> <li>• Extending basic hygiene services to 28% (222 million) in the region mainly in Sudan, Pakistan, Afghanistan, Somalia and Syria.</li> <li>• Improving monitoring and reporting on hygiene services. Reporting on basic hygiene services was not available in 13 countries.</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### References:

- JMP website: [www.washdata.org](http://www.washdata.org)
- Progress on household drinking water, sanitation and hygiene 2000-2022: special focus on gender. Available at: <https://washdata.org/reports/jmp-2023-wash-households-launch>
- JMP Methodology: 2017 update and SDG baselines: <https://washdata.org/reports/jmp-methodology-2017-update>
- JMP 2018 Core Questions for Household Surveys. Available in [English](#), [Arabic](#) and [French](#)