Version 2.5

August 5 2020

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| 0. Indicator information | |
| Concept name | Insert text, lists, tables, and images. |
| 0. Indicator information |  |
| 0.a. Goal | Goal 6: Ensure availability and sustainable management of water and sanitation for all |
| 0.b. Target | Target 6.1: By 2030, achieve universal and equitable access to safe and affordable drinking water for all |
| 0.c. Indicator | Indicator 6.1.1: Proportion of population using safely managed drinking water services |
| 0.d. Series |  |
| 0.e. Metadata update | Last updated: 29 September 2017 |
| 0.f. Related indicators | Related indicators as of February 2020  All targets under Goal 6, as well as targets 1.2, 1.4, 2.2, 3.2, 3.8, 3.9, 4a, 5.4 and 11.1 |
| 0.g. International organisations(s) responsible for global monitoring | Institutional information  Organization(s):  World Health Organization (WHO)  United Nations Children's Fund (UNICEF) |

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| 1. Data reporter | |
| Concept name | Insert text, lists, tables, and images. |
| 1. Data reporter |  |
| 1.a. Organisation |  |
| 1.b. Contact person(s) |  |
| 1.c. Contact organisation unit |  |
| 1.d. Contact person function |  |
| 1.e. Contact phone |  |
| 1.f. Contact mail |  |
| 1.g. Contact email |  |

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| 2. Definition, concepts, and classifications | |
| Concept name | Insert text, lists, tables, and images. |
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| 2.a. Definition and concepts | Concepts and definitions  Definition:  Proportion of population using safely managed drinking water services is currently being measured by the proportion of population using an improved basic drinking water source which is located on premises, available when needed and free of faecal (and priority chemical) contamination. ‘Improved’ drinking water sources include: piped water into dwelling, yard or plot; public taps or standpipes; boreholes or tubewells; protected dug wells; protected springs; packaged water; delivered water and rainwater.  Concepts:  Improved drinking water sources include the following: piped water into dwelling, yard or plot; public taps or standpipes; boreholes or tubewells; protected dug wells; protected springs; packaged water; delivered water and rainwater.  A water source is considered to be ‘located on premises’ if the point of collection is within the dwelling, yard, or plot.  ‘Available when needed’: households are able to access sufficient quantities of water when needed.  ‘Free from faecal and priority chemical contamination’: water complies with relevant national or local standards. In the absence of such standards, reference is made to the WHO Guidelines for Drinking Water Quality (<http://www.who.int/water_sanitation_health/dwq/guidelines/en/>).  E. coli or thermotolerant coliforms are the preferred indicator for microbiological quality, and arsenic and fluoride are the priority chemicals for global reporting. |
| 2.b. Unit of measure |  |
| 2.c. Classifications |  |

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| 3. Data source type and data collection method | |
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| 3.a. Data sources | Data sources  Description:  Access to water and sanitation are considered core socio-economic and health indicators, and key determinants of child survival, maternal, and children’s health, family wellbeing, and economic productivity. Drinking water and sanitation facilities are also used in constructing wealth quintiles used by many integrated household surveys to analyse inequalities between rich and poor. Access to drinking water and sanitation is therefore a core indicator for most household surveys. Currently the JMP database holds over 1,700 censuses and surveys. In high-income countries where household surveys or censuses do not always collect information on basic access, data are drawn from administrative records.  Data on availability and quality of drinking water, and regulation by appropriate authorities will be collected by the JMP through consultation with the government departments responsible for drinking water supply and regulation. The JMP routinely conducts country consultations with national authorities before publishing country estimates. Data on availability and quality of water supplies are currently available from household surveys or administrative sources including regulators for over 70 high-income countries, and at least 30-40 low- and middle-income countries. Thus, data are currently available from ca. 100 countries, covering the majority of the global population. This number will rise as regulation becomes more widespread in low- and middle-income countries.  The population data used by the JMP, including the proportion of the population living in urban and rural areas, are those routinely updated by the UN Population Division. |
| 3.b. Data collection method | **Collection process**:  WHO is required by World Health Assembly resolution to consult on all WHO statistics, and seek feedback from countries on data about countries and territories. Before publishing, all JMP estimates undergo rigorous country consultations facilitated by WHO and UNICEF country offices. Often these consultations give rise to in-country visits, and meetings about data on drinking water, sanitation and hygiene services and the monitoring systems that collect these data. JMP has been engaged with more than fifty countries over the last 10 years in explaining JMP estimates, and reasons for discrepancies if any. |
| 3.c. Data collection calendar | Calendar  Data collection:  The current biennial data collection cycle begins in October during an even year and estimates are published during the following year. |
| 3.d. Data release calendar | Data release:  The baseline SDG report was published in July 2017 and feed into the SG’s 2017 SDG Progress Report. The estimates will be updated in 2019. |
| 3.e. Data providers | Data providers  National statistics offices, Ministries of water, sanitation, health, environment. Regulators of water and sanitation services. |
| 3.f. Data compilers | Data compilers  Name:  WHO/UNICEF  Description:  WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene |
| 3.g. Institutional mandate |  |

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| 4. Other methodological considerations | |
| Concept name | Insert text, lists, tables, and images. |
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| 4.a. Rationale | Rationale:  MDG target 7C called for ‘sustainable access’ to ‘safe drinking water’. At the start of the MDG period, there was a complete lack of nationally representative data about drinking water safety in developing countries, and such data were not collected through household surveys or censuses. The JMP developed the concept of ‘improved’ water sources, which was used as a proxy for ‘safe water’, as such sources are likely to be protected against faecal contamination, and this metric has been used since 2000 to track progress towards the MDG target. International consultations since 2011 have established consensus on the need to build on and address the shortcomings of this indicator; specifically, to address normative criteria of the human right to water including accessibility, availability and quality.  The above consultation concluded that JMP should go beyond the basic level of access and address safe management of drinking water services, including dimensions of accessibility, availability and quality. The proposed indicator of ‘safely managed drinking water services’ is designed to address this. |
| 4.b. Comment and limitations |  |
| 4.c. Method of computation | Methodology  Computation method:  Household surveys and censuses currently provide information on types of basic drinking water sources listed above, and also indicate if sources are on premises. These data sources often have information on the availability of water and increasingly on the quality of water at the household level, through direct testing of drinking water for faecal or chemical contamination. These data will be combined with data on availability and compliance with drinking water quality standards (faecal and chemical) from administrative reporting or regulatory bodies.  The WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) estimates access to basic services for each country, separately in urban and rural areas, by fitting a regression line to a series of data points from household surveys and censuses. This approach was used to report on use of ‘improved water’ sources for MDG monitoring. The JMP is evaluating the use of alternative statistical estimation methods as more data become available.  The JMP 2017 update and SDG baselines report describes in more detail how data on availability and quality from different sources, can be combined with data on use of different types of supplies, as recorded in the current JMP database to compute the safely managed drinking water services indicator.  <https://washdata.org/report/jmp-2017-report-final> |
| 4.d. Validation |  |
| 4.e. Adjustments |  |
| 4.f. Treatment of missing values (i) at country level and (ii) at regional level | Treatment of missing values:   * ***At country level:***   The JMP method uses a simple regression model to generate time series estimates for all years including for years without data points. The JMP then shares all its estimates using its country consultation mechanism to get consensus from countries before publishing its estimates.   * ***At regional and global levels:***   The JMP does not publish estimates for countries for which national data are not available. Regional and global estimates are made for basic services as long as data are available for 50% of the population with the region, weighting by the latest UN Population Division population estimates. Regional and global estimates for safely managed services used a lower threshold of 30% for the JMP 2017 update and SDG baselines report. |
| 4.g. Regional aggregations | Regional aggregates:  For more details on JMP rules and methods, please consult the website: [www.washdata.org](http://www.washdata.org). |
| 4.h. Methods and guidance available to countries for the compilation of the data at the national level |  |
| 4.i. Quality management |  |
| 4.j. Quality assurance |  |
| 4.k. Quality assessment |  |

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| 5. Data availability and disaggregation | |
| Concept name | Insert text, lists, tables, and images. |
| 5. Data availability and disaggregation | Data availability  Description:  In the JMP 2017 report estimates for basic drinking water services were available for nearly all countries and estimates for safely managed drinking water services were made for 96 countries at national level. Sufficient data were available to estimate safely managed drinking water services at the regional level for the following four SDG regions: Sub-Saharan Africa, Central Asia and Southern Asia, Latin America and the Caribbean, Northern America and Europe.  Disaggregation:  Disaggregation by place of residence (urban/rural) and socioeconomic status (wealth, affordability) is possible for all countries. Disaggregation by other stratifiers of inequality (subnational, gender, disadvantaged groups, etc.) will be made where data permit. Drinking water services will be disaggregated by service level (including no services, basic, and safely managed services) following the JMP drinking water ladder.  Time series:  Time series data are available for the basic drinking water level of service over the period 2000-2015. These serve as the foundation for the safely managed drinking water service indicator. Some elements of safe management (e.g. water quality) were not collected during the MDG period and trend analysis will only be possible several years into the SDGs. (From 2000 to 2015). |

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| 6. Comparability/deviation from international standards | |
| Concept name | Insert text, lists, tables, and images. |
| 6. Comparability/deviation from international standards | Sources of discrepancies:  JMP estimates are based on national sources of data approved as official statistics. Differences between global and national figures arise due to differences in indicator definitions and methods used in calculating national coverage estimates. In some cases national estimates are based on the most recent data point rather than from regression on all data points as done by the JMP. In some cases national estimates draw on administrative sector data rather than the nationally representative surveys and censuses used by the JMP. |

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| 7. References and Documentation | |
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