Monitoring the WASH-related SDG targets

MDG+ Initiative: High Level Meeting on the Water-related Sustainable Development Goals



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Elephants





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- Accessibility
 - 3210/3577 = 90% connected to supply network
 - 37.7/3577 = 1% connected to public standpipe



Source: MDG+ report 2015







- Availability
 - 502/3577 = 14% continuous daily
 - 2326/3577 = 65% 3-4 days weekly



Source: MDG+ report 2015







- Accessibility
 - "Is your household connected to piped water network?"
 - 95% yes



Source: Palestinian MICS report 2014







- Use
 - "What is the <u>main</u> source of drinking water for members of your household?"
 - 54% piped water
 - 32% tanker truck
 - 9% small cart
 - 2% protected well
 - 1% bottled water

Source: Palestinian MICS report 2014

















Safely Managed Drinking Water Services





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MDG water ladder

MDGs: Improved drinking water

Piped water on premises: Piped household water connection located inside the user's dwelling, plot or yard. Other improved drinking water sources: Public taps or standpipes, tube wells or boreholes, protected dug wells or springs, rainwater collection.

Unimproved drinking water sources: unprotected dug well, unprotected spring. Surface drinking water sources: River, dam, lake, pond, stream, canal, irrigation channels







JMP regression (Egypt, rural water)









Target 6.1: Drinking water

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

6.1.1: Population using safely managed drinking water services

Definition: Pop. using an improved drinking water source which is:

- Iocated on premises,
 Accessibility
- available when needed, and
- free of faecal and priority chemical contamination Quality
 (*E. coli*/thermotolerant coliforms, arsenic, fluoride)
 (Affordability)





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Availability









MDG/SDG	Service ladder	Progressive realization	
SDG 6.1	Safely managed drinking water services	Improved source located on premises, available when needed, and free from contamination	tion
	Basic service	Improved source within 30 minutes round trip collection time	Realisa
	Limited service	Improved source over 30 minutes round trip collection time	Ve
	Unimproved	Unimproved source does not protect against contamination	rogressi
	No service	Surface water	C .

Data sources

Criterion	Household Surveys
Accessibility	Now: Travel time (or distance), is the water supply on premises
Availability	Now: What people report using New: In the last month, have you been unable to get water from your main drinking water source?
Quality	New: Water quality testing in household surveys







Definitions, standards, methods

- Definitions should be harmonized
 - What is meant by...
 - Fluoride in drinking water
 - Litres per capita per day
 - Hours of service
 - Safely managed drinking water services
- Standards and targets should be contextual
- Methods can be different, but compatible







Accessibility (travel time)

- On premises (for safely managed indicator)
- Within 30 minutes (for basic indicator)
- Household surveys and censuses
 - Available for most DHS and MICS countries
 - "How long does it take to go there, get water, and come back?"
- Sector data
 - Household connections
 - Maximum distances



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Algeria MICS 2012-13

Accessibility of improved drinking water sources



rganization

Programme (JMP) for Water Supply

and Sanitation

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Availability

- Household surveys and censuses
 - Introducing new questions
 - Continuity (hours of service) of piped water supplies
 - In the last month, have you been unable to get water from your main drinking water source?
- Sector data
 - Continuity of piped supplies
 - Different benchmarks and standards
 - 24/7, 20 hours/day, 16 hours/day, 5 days/week







Jordan PFHS 2007



and Sanitation

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Quality

- *E. coli*/thermotolerant coliforms, arsenic, fluoride
- Household surveys and censuses
 - New module to test *E. coli* in household surveys
 - Completed in 5 countries, underway in ca. 12 more
- Sector data
 - Water ministries, health ministries
 - Service providers, regulators
 - Many for only formal systems, mainly urban
 - Some lack *E. coli* or thermotolerant coliforms
 - Many lack arsenic and fluoride







Lebanon Water Quality Survey, 2016



Sampling methodology



E. coli, residual chlorine, turbidity, nitrate at point of collection, and point of consumption







Lebanon Baseline for SDG 6, target 6.1

Population using **improved water sources on premises**: distribution point within the HH dwelling, plot or yard

Population using safely managed water services Population using **improved water sources when needed**: water is available in sufficient quantities when needed

Population using **improved water sources free of contamination**: no fecal coliforms in drinking water **supply at household**





Lebanon Baseline for SDG 6, target 6.1

Lebanon 2016



Population using improved water sources







Example of safely managed drinking water



Example of national target setting





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SDG targets 'leave no one behind'

- SDG indicators to be disaggregated where relevant
 - income,
 - sex,
 - age,
 - race,
 - ethnicity,
 - migratory status,
 - disability and
 - geographic location,
 - or other characteristics





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Target 6.2: Sanitation and hygiene

By 2030, achieve access to **adequate** and **equitable sanitation** and hygiene for all, and **end open defecation**, paying special attention to the needs of **women and girls** and those in **vulnerable situations**

6.2.1: Population using safely managed sanitation services including a handwashing facility with soap and water

Definition: Pop. using an improved sanitation facility which is:

- not shared with other households and where Accessibility
- excreta are safely disposed in situ or

Quality

• transported and treated off-site







MDG sanitation ladder

MDGs: Improved sanitation

Improved sanitation facilties: Flush/pour flush to piped sewer system, septic tank or pit latrine; Ventilated improved pit (VIP) latrine; Pit latrine with slab; Composting toilet Shared sanitation facilities: Sanitation facilities of an otherwise acceptable type shared between two or more households. Unimproved sanitation facilities: Pit latrines without a slab or platform, hanging latrines and bucket latrines. **Open defecation:** human faeces disposed of in fields, forest, bushes, open bodies of water, beaches or other open spaces or disposed of with solid wastes







Improved facility

Sewerage safely treated offsite Septic tank wastes safely treated/disposed on/offsite Pit latrine wastes safely treated/disposed on/offsite

Private







	Service ladder	Progressive realization	
SDG 6.2	Safely managed sanitation services	Private improved facility where faecal wastes are safely disposed on site or transported and treated off-site	ation
	Basic service	Private improved facility which separates excreta from human contact	Realis
	Limited service	Improved facility shared with other households	ive
	Unimproved	Unimproved facility does not separate excreta from human contact	rogress
	No service	Open defecation	Δ

Safely disposed in situ

- How much faecal waste that is not emptied should be considered to be safely managed?
 - Septic tanks,
 latrines that have
 never been
 emptied?







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Transported and treated off site

- How much sewerage reaches a wastewater treatment plant and is adequately treated before discharge?
- How much faecal sludge from septic tanks and latrines is safely emptied and transported to a treatment plant where it receives adequate treatment before discharge?













Mass balance approach in 47 cities (BMGF)









Example of Safely Managed Sanitation



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6.3 Water quality

By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally

6.3.1 Proportion of wastewater safely treated

- Domestic wastewater
 - Sewerage, plus deliveries of sludge from onsite
- Hazardous industrial wastewater
 - Pre-treatment







Links between Targets 6.2 and 6.3

- "Proportion of wastewater safely treated"
- Common elements
 Mass flow approach
- Differences



- 6.2 includes open defecation and on-site wastes
- 6.3 includes more on treatment and reuse
- 6.3 includes hazardous industrial wastes







What does "treated" mean?

- To national standards
 - Meeting pathogen standard
 - Meeting BOD standard

- No applicable standards (or no data)
 - Considering technology and exposure
 - Considering technology alone







Treatment and exposures

Wastewater Treatment level	<u>High exposure</u> (reuse for food production)	<u>Medium exposure</u> (disposal on land or water bodies – not for food production)	Low exposure (long ocean outfall or groundwater recharge)
Advanced treatment	Safely treated	Safely treated	Safely treated
Tertiary treatment	Safely treated ¹	Safely treated ¹	Safely treated
Secondary treatment	Not safely treated	Safely treated ²	Safely treated
Primary treatment only	Not safely treated	Not safely treated	Safely treated
Untreated discharge	Not treated	Not treated	Not treated

- 1 where only advanced N, P removal then classed as 'not safely treated'
- 2 where disposal is in proximity to bathing areas then classes as ' not safely treated'







- Combination of several tertiary treatments
- Advanced oxidation
- Membrane filtration
- Carbon adsorption
- Ion exchange
- Chemical oxidation
- Advanced N,P removal
- Disinfection (e.g. chlorination, UV)

Sludges

- As per treatment of excreta from onsite systems
- Aerobic suspended or attached growth (e.g. AS or Trickling filters)
- Anaerobic suspended or attached growth (e.g. UASB)
- Waste stabilisation ponds
- Wetlands

Sludges

 As per treatment of excreta from onsite systems

Screening and grit removal with:

- Sedimentation
- Chemical precipitation
- Filtration
- High rate clarification
- Flotation

Excreta from Excreta from onsite Solid fraction piped sewers sanitation Co-composting Wastewater Faecal sludge Incineration Lime stabilization Ammonia treatment Advanced treatment ¹ Treatment of solid and Liquid fraction liquid fraction As per treatment for excreta from piped sewers Anaerobic reactors Tertiary treatment 1 Dewatering and/or Chemical conditioning stabilization of solid Mechanical dewatering fraction and treatment of Safe burial or storage (e.g. liquid fraction deep-row entrenchment) Solid fraction only Secondary treatment ¹ Drving beds Liquid fraction As per treatment for Solid-liquid fraction excreta from piped sewers **Primary treatment** separation Thickening/settling tanks or ponds No treatment No treatment Storage/partial treatment

Onsite sanitation technologies

1. of wastewater and treatment of sludge

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Ref. Metcalf & Eddy,2007; GWI,2011; Strande,2014

Peru: Effect of different standards









Example of national target setting





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Handwashing facility with soap and water available

6.2.1: Population using safely managed sanitation services, including a handwashing facility with soap and water

Emerging data on handwashing show that the presence of facilities with water and soap varies widely between countries and regions



Fig.40 Proportion of the population with a handwashing facility with soap and water (2009-2014)







JMP handwashing ladder









WASH in institutions

- WASH sector priority: move beyond the house
- Explicit SDG link for WASH in Schools
 - Target 4.a: basic WASH services
- Health sector priority: WASH in Health Care Facilities
- Both settings to be included in reporting of Targets 6.1 and 6.2











SDG targets 'leave no one behind'

- SDG indicators to be disaggregated where relevant
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Timeline and next steps

- Data collection through end of 2016
 Data request to regional and country offices
- Data analysis through end of 2016
 - Produce estimates and data completeness grades
- Country consultation on estimates, early 2017
- Publish 2017 baseline report, mid-2017







WHO / UNICEF Joint ×



☆ SDG baselines

DATA & ESTIMATES maps graphs tables

DOCUMENTS

POST-2015 MONITORING green paper factsheets consultations working groups

SDG BASELINES

DEFINITIONS & METHODS wat/san categories wat/san ladder data sources method

TASK FORCES

WATER QUALITY

WEALTH QUINTILES

HANDWASHING

COUNTRY COLLABORATIONS data updates data reconciliation

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Search...

www.wssinfo.org sdgbaselines@wssinfo.org

WASH baselines for the Sustainable Development Goals

In September 2015, at the 70th Session of the UN General Assembly, world leaders unanimously adopted Transforming our world: the 2030 Agenda for Sustainable Development. The 2030 Agenda for Sustainable development comprises 17 Sustainable Development Goals and 169 targets and constitutes "a plan of action for people, planet and prosperity". It is also intended to be a "universal agenda" to be implemented by "all countries and all stakeholders, acting in collaborative partnership".

The Inter Agency and Experts Group on SDG indicators (IAEG-SDGs), a 28 Member State group created by the 46th Statistical Commission in March 2015 and endorsed by the UN General Assembly, has been tasked with developing the global indicator framework. The IAEG-SDGs report to the 47th Statistical Commission included an official list of 230 global indicators which the Commission endorsed as a practical starting point for SDG monitoring. The IAEG-SDGs subsequently identified international agencies to serve as 'custodians' for the SDG global indicators based on their existing mandates and global monitoring expertise.

The WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation (JMP) has produced estimates of global, regional and national progress on drinking water, sanitation and hygiene (WASH) since 1990 and was responsible for monitoring progress towards MDG target 7c. WHO and UNICEF convened a series of international consultations on global monitoring of WASH post-2015 and actively supported the development of SDG global targets and indicators for WASH. The JMP will be responsible for global monitoring of the SDG targets 6.1 and 6.2 which relate to drinking water, sanitation and hygiene.

6.1 By 2030, achieve universal access to safe and affordable drinking water for all

6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations

The new SDG targets are highly ambitious. They call for universal access, which goes beyond the household and includes institutional settings such as schools and healthcare facilities, and call for the reduction of inequalities in service levels. The indicators selected Data requested for calculating SDG baseline estimates

- SDG 6.1.1 Safely managed drinking water services
- SDG 6.2.1 Safely managed sanitation services
- SDG 6.3.1 Wastewater treatment
- Multipurpose indicator: Basic WASH services in healthcare facilities
- Multipurpose indicator: Basic WASH services in schools

Supplementary materials on safely managed drinking water and sanitation

- Draft tool for calculating safely managed drinking water and sanitation services
- Draft definitions for safely managed sanitation services and safely treated wastewater
- Draft step-by-step guide to safely managed sanitation services

Supplementary materials on WASH in institutions

- WASH in schools expert group meeting report
- WASH in healthcare facilities expert group meeting report
- WASH in schools core questions
- WASH in healthcare facilities core questions

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Extra slides





WHO / UNICEF Joint Monitoring Programme (JMP) for Water Supply and Sanitation



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Target 6.a: International cooperation

By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies

6.a.1: Amount of water and sanitation related Official Development Assistance that is part of a government coordinated spending plan







Target 6.b: Participation

Support and strengthen the **participation of local communities** in improving water and sanitation management

6.b.1: Percentage of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management







Basic Services in Schools

Basic drinking water

Drinking water from an improved source is available at the school

Basic sanitation

Improved facilities, which are sex-separated and usable (accessible, functional, private) at the school

Basic handwashing

Handwashing facility with water and soap available to students







Basic Services in Health Care Facilities

Basic drinking water

Water from an improved source is available on premises

Basic sanitation

Improved sanitation facilities are available and usable, separated for patients and staff, separated for women and allowing menstrual hygiene management, and meeting the needs of people with limited mobility







Indicator Definitions of Basic Service

Basic hand hygiene

Hand hygiene materials, either a basin with water and soap or alcohol hand rub, are available at points of care and toilets

Basic health care waste management

Waste is safely segregated into at least three bins in the consultation area and sharps and infectious wastes are treated and disposed of safely









World Health Organization



