

Briefing

 WaterAid

Water: At What Cost?

The State of the World's Water 2016



Introduction

Almost every day, water makes the headlines somewhere in the world. Droughts, floods and pollution are all big news, as water becomes the most precious, and most contested, essential resource.

Today, however, the biggest story is that more than 650 million¹ of the world's poorest people are living without access to an 'improved' source of drinking water (see box). The price paid by these communities – in wasted income, ill-health, and lost productivity – is extremely high, and has a devastating impact from the family to the national level.

It is often assumed that the poorest people in the world don't have formal water supplies because they cannot afford the bills. In fact, as the stories in this report show, the poorest are already paying, and often far more than fellow citizens who might be lucky enough or wealthy enough to have an 'official' water point.

In 16 countries, more than 40% of the population do not have access to even a basic water facility such as a protected well.² People from impoverished, marginalised communities have no choice but to collect dirty water from open ponds and rivers, or spend large chunks of their income buying water from vendors.

This water is always a health risk; in many cases, it proves deadly. Globally, diarrhoeal diseases caused by dirty water and poor sanitation are the second biggest child killer

after pneumonia, taking 315,000 young lives every year.³

What's more, water resources are becoming increasingly fragile as populations grow, land use changes and deforestation continues. These threats will be exacerbated by the effects of climate change and have a disproportionately large impact on poor people without a safe, reliable water supply.

Ignoring this reality is not an option. Access to affordable water is a human right: "Paying for water and sanitation services must not limit one's capacity to pay for other essential goods and services."⁴ Achieving the Global Goals for Sustainable Development⁵ will be impossible in a world where one in ten people are trapped in a cycle of poverty and disease for want of a safe, affordable water supply of their own.

In *Water: At What Cost?* we offer a snapshot of access to water around the world in 2016, using stories from some of the worst-affected countries to illustrate some of the issues faced.

This is an era of unprecedented progress in spreading access to clean water – 2.6 billion have been reached since 1990⁶ – but far too many have been left behind.

As the world begins to work towards the Global Goals for Sustainable Development, we show the need, and offer solutions, for reaching everyone everywhere with safe water.

Cover image: Doris Talban lives in a slum in Port Moresby, Papua New Guinea. Her neighbourhood has just one pipe to serve 100 families. Doris has to queue for a long time, especially if the water pressure is low. Those at the end of the queue often find the water has run out by the time they get there.

Photo credit: WaterAid/Tom Greenwood



‘Improved’ water sources⁷

Public taps

Protected wells

Rainwater

Water piped into
household

‘Unimproved’ water sources

Rivers

Ponds

Unprotected wells

Tankers

Bottled water

Kajal Gautam, 16, on her way
back from collecting water in
Nihura Basti, Kanpur, India.

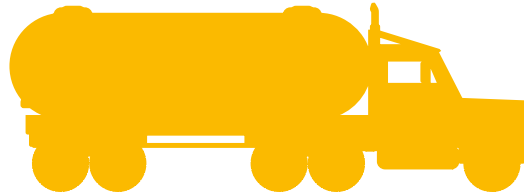
Photo credit: WaterAid/Poulomi Basu

1. Water: at what cost?

The lack of access to an affordable, convenient, improved water source is one of the biggest barriers to escaping a life of poverty and disease.

The cost of water

For a poor person in the developing world with no access to safe water at home, buying the recommended 50 litres a day⁸ can be a huge drain on their meagre salary. Many people have no choice but to compromise their health and dignity by using much less or collecting water from unsafe sources.



50 litres a day

The World Health Organization specifies 50 litres per person per day as the recommended 'intermediate' quantity needed to maintain health, hygiene and for all domestic uses.⁸



Four impacts of unsafe water on health and work

Diarrhoeal diseases caused by unsafe water and poor sanitation are the second biggest child killer – taking **315,000 children's lives** every year.¹⁹



Walking, queuing and carrying jerrycans wastes time: in Sub-Saharan Africa, women spend a combined total of at least **16 million hours** each day collecting drinking water.²¹

50% of child malnutrition is associated with unsafe water, inadequate sanitation and poor hygiene, placing a huge burden on fragile healthcare systems.²⁰

Businesses' productivity is hit hard by **staff absenteeism, turnover** and **low morale** related to lack of access to clean, safe water in workplaces.²²

Three big reasons people struggle to access water

1. Not enough money or political priority

The biggest barrier to improving access to water, sanitation and hygiene has too often been the chronic under-funding of these vital services and the lack of political will to prioritise clean water and toilets for all. In many developing countries, spending on water, sanitation and hygiene services is minimal compared to health and education, and the share of aid flows going to water and sanitation also remains unacceptably low, having risen only slightly in the past ten years to 4.4% of all overseas aid.²³

2. Government inability to deliver

In many poor countries, although water infrastructure may be in place, effective institutions and management regimes are lacking, making it difficult to find engineers, managers and other skilled staff who can keep services running. In fragile states, the problems can be more acute, with water infrastructure and systems destroyed and needing to be rebuilt from scratch.

3. Deep inequalities

Those in remote and rural locations are much less likely to have a reliable water source. However, even in cities, the poorest people are often socially excluded, and rarely consulted or involved in decisions about water services. Health conditions, age, disability, gender, ethnicity or caste can marginalise a person even further. 'Slums' and informal settlements are often not served at all and, where residents are regularly facing eviction attempts, even informal water connections are difficult to maintain.



Photo credit: WaterAid/GMB Akash/Panos

Climate change

Climate change is felt mainly through floods, drought, unpredictable monsoons and contaminated water. Unimproved water sources are particularly vulnerable to these factors. Open, low-level wells in flood zones can easily be contaminated. Shallow wells are more likely to run out during long dry seasons. Black-market vendors may ramp up prices even further when supplies are low and demand is high. As a result, the world's poorest people are left with unreliable, inconvenient, costly and potentially fatal ways of getting water.²⁴



“With my nearly nine months pregnancy, I still have to fetch water far away from our village for my family.” Zosy, 35, Analamanga region, Madagascar.

Photo credit: WaterAid/Ernest Randriarimalala

2. Top 10 worst countries for household water access



Table 1:
Top 10 countries with the greatest percentage of people living without access to safe water²⁵

Rank	Country	%
1	Papua New Guinea	60
2	Equatorial Guinea	52
3	Angola	51
4	Chad	49
5	Mozambique	49
6	Madagascar	48
7	Democratic Rep of the Congo	47
8	Afghanistan	45
9	United Republic of Tanzania	44
10	Ethiopia	43

Table 2:
Top 10 countries with the greatest numbers of people living without access to safe water²⁶

Rank	Country	Numbers
1	India	75,777,997
2	China	63,166,533
3	Nigeria	57,757,141
4	Ethiopia	42,251,031
5	Democratic Rep of the Congo	33,906,771
6	Indonesia	32,286,276
7	United Republic of Tanzania	23,239,992
8	Bangladesh	21,088,119
9	Kenya	17,205,557
10	Pakistan	16,096,404

Lack of access to safe water not only makes people unwell and unproductive, it can swallow up what meagre income they earn. Some of the poorest people in the world face spending up to half of their daily wages on

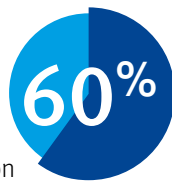
water from informal or illegal sources, and many times more than a neighbouring house might pay if they are connected to an official municipal supply.

Papua New Guinea

Worst in the world for percentage of population without safe water.

4.5^M

People without safe water²⁷



Percentage of population without safe water

800

Annual child deaths from diarrhoea²⁸



Cost of 50 litres of water from a water delivery service²⁹

Cost of 50 litres of water as a percentage of a typical poor person's salary³⁰



A lack of safe water dominates daily life in this desperately poor country. In the mountainous, densely-forested rural areas, more than 60% of the population have no safe water supply.³¹

Elizabeth, surrounded here by her family in Gereka, Papua New Guinea, can spend more than half her daily income on water for all their needs.

Photo credit: WaterAid/Tom Greenwood



In Port Moresby, the capital city, around half of people live in informal settlements on steep slopes and flood-prone areas. Because many of these areas lie outside utility service boundaries and away from existing water mains or sewerage pipes, residents can expect to wait for many more years for a formal connection to be built. Rising seas and more frequent extreme weather events will make water supplies, and life in general, ever more fragile.³²

Elizabeth Ila (pictured), 53, lives in Gereka settlement on the outskirts of Port Moresby. In a good week, she makes 100 kina (£25) from her snack stall – around 14 kina (£3.60) a day. Her husband makes about the same amount from construction labouring, but work is patchy.

“Sometimes we find it hard to get water but we are lucky to have a well,” she says. As the well is unprotected, Elizabeth and her family only use the water for bathing and washing clothes. For drinking and cooking, they rely on a water delivery service called Waterboy that charges 7.5 kina (£1.84) for 50 litres – more than 50% of Elizabeth’s daily income.

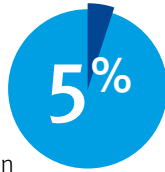
On the days the service doesn’t turn up in Gereka, Elizabeth takes containers to fill up in another area of the city. Sometimes she has to go back and forth many times a day, which can cost up to 16 kina (£3.92) in bus fares.³³

India

Worst in the world for the number of people without safe water.

75.8^M

People without safe water³⁴



Percentage of population without safe water



Cost of 50 litres of water from a water vendor (tanker)³⁶



Cost of 50 litres of water as a percentage of a typical poor person's salary³⁷

140,000

Annual child deaths from diarrhoea³⁵

Nearly 76 million people in India have no access to a safe water supply. Most of those people are living on around £3 a day.³⁷ If they have the opportunity to buy water from a tanker it can cost 1 rupee (£0.01) per litre, sometimes double if supplies are scarce.

Poor management of water resources is the biggest problem holding India back from reaching all of its population with water supplies. Aquifers provide 85% of drinking water,³⁸ but levels are falling in 56% of the country.³⁹ Hand pumps are exacerbating the

crisis in many areas by depleting shallow aquifers. Misappropriation in planning and execution of water supply projects is another key factor. And projects often use inadequate sources or pipelines do not reach habitations.

As a result, millions of people get insufficient or poor quality water. Communities fall back on a single or distant source for drinking water, often leading to disputes and increased discrimination against the main water fetchers: women and girls.

Aquifers provide 85% of drinking water, but levels are falling in 56% of the country. Here in Nihura Basti, Kanpur, India, girls queue to collect safe water at a tap point.

Photo credit: WaterAid/Poulomi Basu

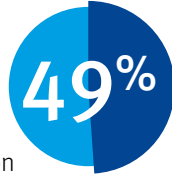


Mozambique

Fifth in the world for percentage of population without safe water.

13.3^M

People without safe water⁴⁰



Percentage of population without safe water

7,000

Annual child deaths from diarrhoea⁴¹



Cost of 50 litres of water from a water vendor⁴²



Cost of 50 litres of water as a percentage of a typical poor person's salary⁴³

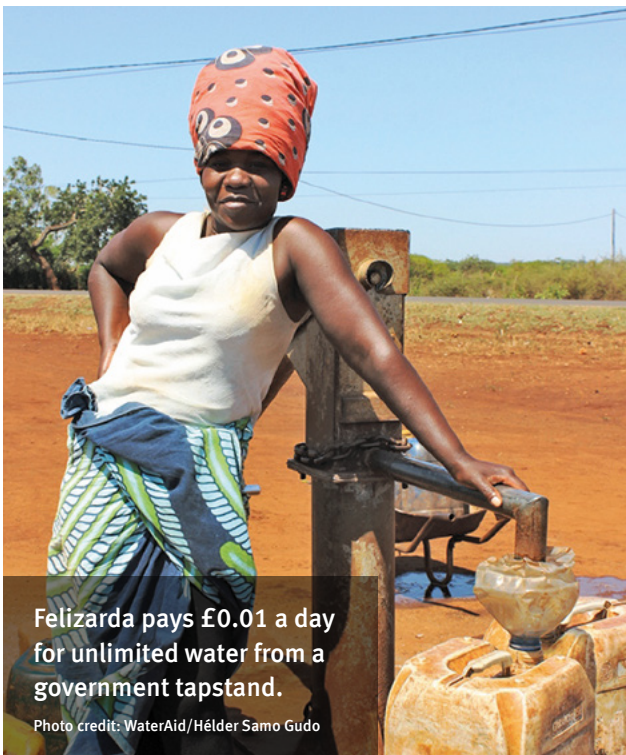
In Boane, on the outskirts of Maputo, live two mothers: Felizarda and Amelia. Both are from poor communities, but there is a world of difference in the way they access water.

Felizarda shares a government-subsidised tapstand with 500 families, with each family paying 0.6 meticaís (£0.01) a day for safe, regular water.

She says, "I fetch 12 cans of 20 litres per day: sufficient for everyday basic needs of the family. I like the water source because it is located next to my house and the monthly contribution amount is bearable."

Meanwhile, Amelia and her husband live on around 100 meticaís (£1.42) a day, including her income from trying to sell 50 loaves of bread each day. Her only means of obtaining water is through illegal vendors, at a cost of 2.5 meticaís (£0.04) per 20-litre jerrycan.

"I need 14 jerrycans of 20 litres every day for cooking, washing, bathing for the whole family and other needs," says the mother of three. "We do not have a water source here in the neighbourhood. We have to resort to taps of some people who sell water. Every 20-litre jerrycan costs 2.5 meticaís (£0.04). It's too much money. I have no formal work, I sell bread. Life is very difficult here. Today, I already paid 35 meticaís (£0.51) to have water."⁴⁴



Felizarda pays £0.01 a day for unlimited water from a government tapstand.

Photo credit: WaterAid/Hélder Samo Gudo



Amelia pays £0.09 just for 50 litres from a water vendor.

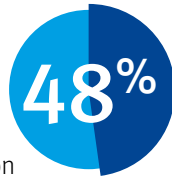
Photo credit: WaterAid/Hélder Samo Gudo

Madagascar

Sixth in the world for percentage of population without safe water.

11.7^M

People without safe water⁴⁵



Percentage of population without safe water

3,000

Annual child deaths from diarrhoea⁴⁶



Cost of 50 litres of water from a water vendor (tanker)⁴⁷



Cost of 50 litres of water as a percentage of a typical poor person's salary⁴⁸



50 litres of water could cost someone over half their daily salary in parts of Madagascar, so many people have no choice but to collect water from rivers like this in Analamanga region.

Photo credit: WaterAid/Ernest Randriarimalala

Water sources: Unimproved v Improved⁴⁹

Tanker:

50 ariary (£0.01) per litre

Bottled water vendor:

1,000 ariary (£0.20) per litre

Itinerant water vendor:

20 ariary (£0.002) per litre

Kiosk:

2.5 ariary (£0.0005) per litre

A government-backed water source, managed by the community, would cost around:

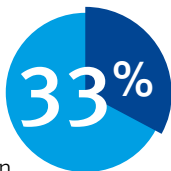
500 ariary (£0.11) per month per family (of approximately five people) for 10 to 20 litres a day per person.

Ethiopia

Fourth in the world for number of people without water, tenth in the world for percentage of population without safe water.

42.2^M

People without safe water⁵⁰



Percentage of population without safe water

15,000

Annual child deaths from diarrhoea⁵¹



Cost of 50 litres of water from a water vendor⁵²

Cost of 50 litres of water as a percentage of a typical poor person's salary⁵³



Biruktawit lives in Leku Keta, in Oromia, where the taps only run three or four times a month.

“Water comes and sometimes stays on for up to three days, other times it will go off by the end of the day. The most you can store is between 200-300 litres of water in a big barrel. But with three children, that won't last me a week. So I have to buy water from water vendors for a really expensive price.”

Water vendors are usually young people scraping together a living by carrying water to households with no regular supply. The vendors buy water from the utility for just 45 birr (£1.47) for 1,000 litres but charge customers 3 birr (£0.10) for 50 litres at the point of sale, or 30 birr (£0.98) for 50 litres to be delivered to their house.

For a low-ranking government employee, such as a caretaker or security guard, whose daily salary is around 20 birr (£0.65)⁵³, buying the recommended 50 litres a day just for themselves would cost 15% of their salary if they carried it home themselves or 150% if they had it delivered. Faced with these costs, many people buy much less or collect water from a nearby river.

In central Addis Ababa, a typical middle-class household pays the utility company around 15 birr (£0.49) for a month's supply of constant, piped water: over 100 litres a day. Per litre, that's 20 times less than buying water from a tap-stand vendor.⁵⁴



Piped water from the utility company costs 20 times less than the price Biruktawit has to pay for water from a tap-stand vendor in Oromia, Ethiopia.

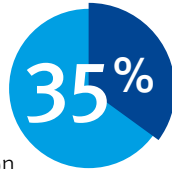
Photo credit: WaterAid/Behailu Shiferaw

Zambia

21st out of 199 countries for percentage of population without safe water.⁵⁵

5.4^M

People without safe water⁵⁶



Percentage of population without safe water



Cost of 50 litres of water from a water vendor⁵⁸

3,000

Annual child deaths from diarrhoea⁵⁷

Cost of 50 litres of water as a percentage of a typical poor person's salary⁵⁹



Jennifer Chikwanda 36, is a housewife and mother of seven living in the N'gombe district of Lusaka, Zambia. She says the cost of water is increasingly unaffordable.

Like all of her neighbours, Jennifer and her husband, a security guard, have no proper water supply or sewerage services. They have no choice but to buy water from vendors in a nearby, more affluent suburb. Richer people drill boreholes at their premises and then sell containers to people like Jennifer with no supply of their own.

"We spend 6 kwacha (£0.38) per 210-litre drum and here at home we use a minimum of two drums so we end up spending 12 kwacha (£0.76) per day for our water needs," said Jennifer.

With an average daily income of 33 kwacha (£2.08), the cost for Jennifer and Joseph of meeting their family's water needs takes up at least 37% of their money.

For those in the city lucky enough to have a piped supply, Lusaka Water and Sewerage Company charge just 3.93 kwacha (£0.25) for 30,000 litres of water, or £0.0004 for 50 litres.⁶⁰

Jennifer Chikwanda 36, rolling home a 210-litre drum of water bought from a vendor, Lusaka, Zambia.

Photo credit: WaterAid/Chileshe Chanda



3. Top 20 most improved countries for water access

This is an era of unprecedented progress in reaching the world's poorest people with safe water. The Millennium Development Goal target for halving the proportion of the planet's population without safe drinking water was met in 2010, well ahead of the 2015 deadline.⁶¹ Over 90% of people now have access to improved sources of drinking water.

Yet, even in countries that have made the most impressive progress in reaching people over the past 15 years, tens of millions of people are still unserved with their basic human right to safe water. The stories here show that, while there is much to celebrate, the stark inequality between the haves and have-nots in these nations urgently needs to be addressed.

Table 3:

Top 20 countries who have made the greatest improvement in increasing access to safe water⁶²

Rank	Country	Year 2000 population with access to safe water (%)	Year 2015 population with access to safe water (%)	2000-2015 increase population with access to safe water (percentage points)
1	Cambodia	41.6	75.5	33.9
2	Mali	46.6	77.0	30.4
3	Lao People's Democratic Republic	45.5	75.7	30.2
4	Ethiopia	28.9	57.3	28.4
5	Malawi	62.5	90.2	27.7
6	Guinea-Bissau	52.1	79.3	27.2
7	Afghanistan	30.3	55.3	25.0
8	Paraguay	73.4	98.0	24.6
9	Uganda	56.4	79.0	22.6
10	Burkina Faso	59.9	82.3	22.4
11	Swaziland	51.9	74.1	22.2
12	Vietnam	77.4	97.6	20.2
13	São Tomé and Príncipe	78.2	97.1	18.9
14	Vanuatu	75.8	94.5	18.7
15	Ghana	70.5	88.7	18.2
16	Timor-Leste	54.3	71.9	17.6
17	Nigeria	51.8	68.5	16.7
18	Bhutan	83.9	100.0	16.1
19	Sri Lanka	79.7	95.6	15.9
20	Mauritania	42.0	57.9	15.9

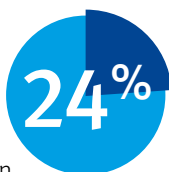


Cambodia

Most improved country for increasing safe water access since 2000.

3.8M

People without safe water⁶³



Percentage of population



Cost of 50 litres of water from a water vendor (bottled water)⁶⁵

600

Annual child deaths from diarrhoea⁶⁴

Cost of 50 litres of water as a percentage of a typical poor person's salary⁶⁶



Patients at this clinic in Koh Thom, Cambodia, do not trust the quality of the piped supply and drink bottled water instead.

Photo credit: WaterAid/Kim Hak

Cambodia has had a tumultuous recent past. Because of the genocide and social engineering by the Khmer Rouge regime, an entire generation of professionals was lost, creating major shortages of skilled engineers, technicians and health professionals. The first wave of post-conflict graduates is now emerging, helping to drive their country's development. Progress in access to water has gone hand-in-hand with poverty reduction and the country's rapid economic growth since 1990; the capital Phnom Penh now enjoys almost universal water coverage.

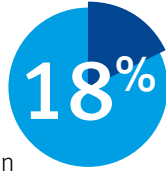
However, 80% of people live in the countryside, many in extreme poverty. There are an estimated 500,000 borehole wells across Cambodia⁶⁷, but there is inadequate investment in teaching people how to care for water technologies. And a weak national system of maintenance means that functionality is patchy.

Burkina Faso

10th most improved country in increasing safe water access since 2000.

3.2^M

People without safe water⁶⁸



Percentage of population without safe water



Cost of 50 litres of water from a water vendor⁷⁰

4,000

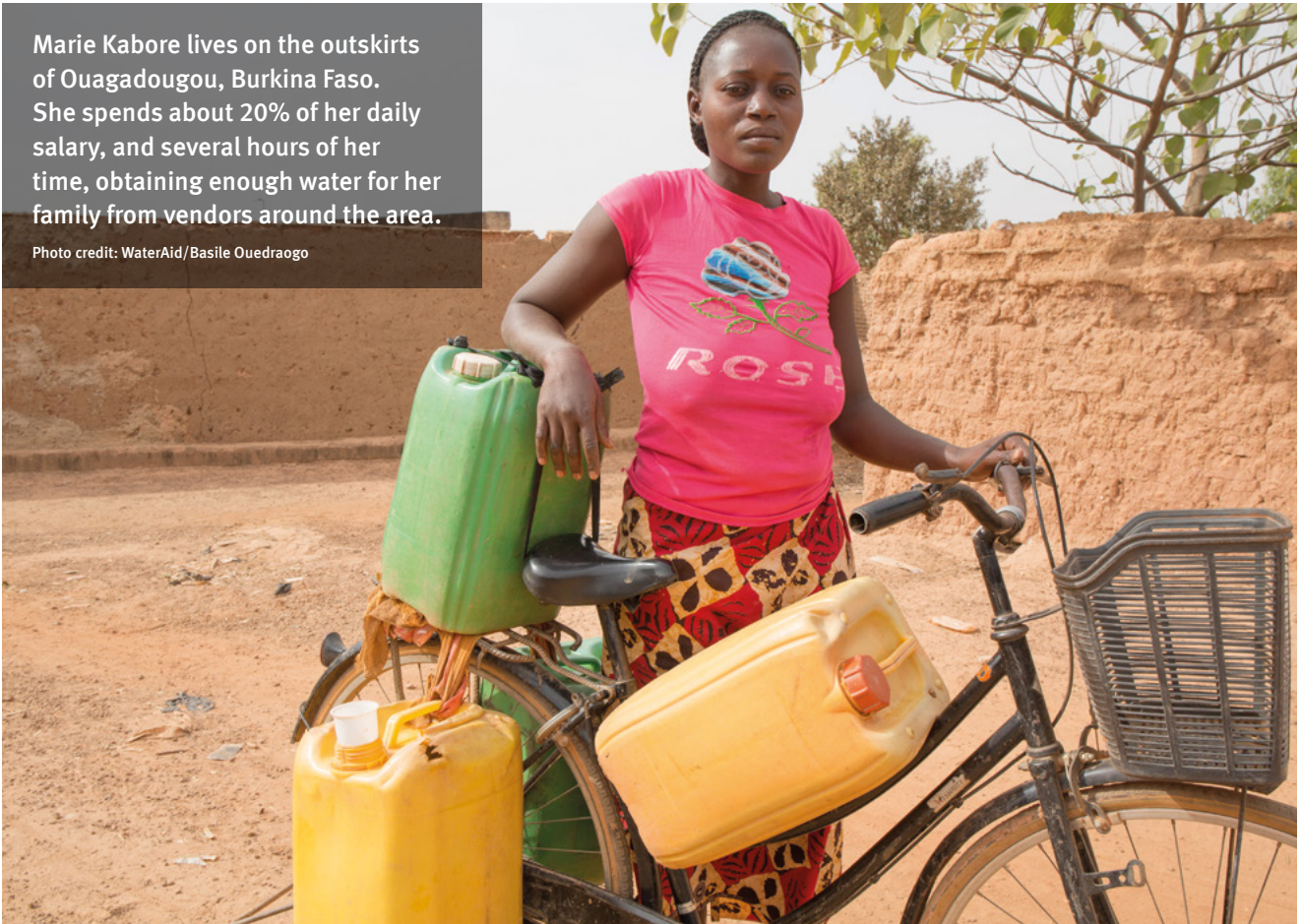
Annual child deaths from diarrhoea⁶⁹

Cost of 50 litres of water as a percentage of a typical poor person's salary⁷¹



Marie Kabore lives on the outskirts of Ouagadougou, Burkina Faso. She spends about 20% of her daily salary, and several hours of her time, obtaining enough water for her family from vendors around the area.

Photo credit: WaterAid/Basile Ouedraogo



During the 1980s, water coverage spread rapidly as an integral part of national housing development across Burkina Faso. The utility ONEA (National Office of Water and Sanitation) remains in public hands, with the government implementing low-cost subscriptions and tariffs for poor communities.

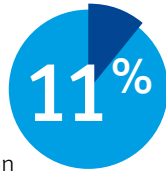
Despite political difficulties, the recent improvements in access to safe water have been driven by government leadership, strong political will and partnerships between the public and private sectors. However, much needs to be done to reach almost one-fifth of the population who have so far missed out.

Ghana

15th most improved country in increasing safe water access since 2000.

3M

People without safe water⁷²



Percentage of population without safe water



Cost of 50 litres of water from a water vendor⁷⁴



Annual child deaths from diarrhoea⁷³



Cost of 50 litres of water as a percentage of a typical poor person's salary⁷⁵

As piped water supplies are erratic or even non-existent in many parts of the capital city Accra, residents are forced to acquire water in other ways. For those who can afford it, large quantities are delivered to their homes by trucks and stored in tanks or barrels; those with more modest means must purchase it daily by the bucket.

Doris Oparebia (pictured) lives in a shack next to a hotel construction site in Accra. She lives on 10 cedis a day (£1.80), earned by cooking and selling meals to the construction workers. For water, she relies on the water truck making daily deliveries to the area.

For 0.5 cedis (£0.09) they can buy a 10-litre bucket from the tanker. To buy enough to provide for a typical poor family's consumption of 100 litres a day would cost someone 50% of their daily income.

Middle-class house owners who can afford a household water tank pay 0.16 cedis (£0.03) per ten litres – three times cheaper. And people with a piped supply pay the Ghana Water Company as little as 0.01 cedis (£0.002) per ten litres – about 50 times less than Doris pays.⁷⁶



Doris Oparebia's family live in a shack in Accra, Ghana, and pay 50 times more for their water than a middle-class household with a piped water supply.

Photo credit: WaterAid/Elio Stamm

4. What we can do about it

World leaders are committed to reaching everyone everywhere with safe water and sanitation by 2030 – this is Goal 6, signed off in September 2015 by all 193 UN member states as part of the 17 Global Goals for Sustainable Development.⁷⁷

Even without this historic agreement, the combination of health and economic benefits makes an overwhelming case for urgent political action. To install a basic water facility and functioning toilet, and keep them going for 10 years, can cost as little as £70 per person.⁷⁸ And, for every £1 invested in water and sanitation, an average of at least £4 is returned in increased productivity, primarily based on improved health and more time to work.⁷⁹ Around 315,000 children's lives could be saved every year, and many more children would have the nutrition they need to grow and live full lives.

Now that the Global Goals for Sustainable Development have been signed, with universal access to safe water a dedicated target, we need to see more political priority given to increasing and targeting resources at those in most urgent need. This means increased funding from donor and developing governments, affordable tariffs and connections, and a vibrant, well-regulated sector to create reliable, accessible water services that can be used by everyone.⁸⁰

For every **£1**
invested in water
and sanitation...



an average of at least **£4**⁷⁹
is returned in increased
productivity, primarily
based on improved
health and more
time to work.



WaterAid calls for the following urgent actions to reach everyone everywhere with safe water:

- Governments must bring about a dramatic and long-term increase in public and private financing for water, sanitation and hygiene, building the strong national systems needed to achieve universal access to sustainable services.
- Donor governments must target crucial aid at the countries and communities that need it most, and align it to national systems and plans.
- Governments and aid donors must prioritise reaching the poor and marginalised with improvements to services, and must ensure that they are affordable to all.
- Private and public sectors need to cooperate more effectively to achieve universal access to water, sanitation and hygiene in workplaces, communities, and throughout supply chains. The emerging UNICEF initiative 'WASH4Work' is a key opportunity to bring together businesses, governments and multilateral agencies in service of this goal.⁸¹
- Governments must take an integrated approach, ensuring that improving access to water, sanitation and hygiene services is embedded in plans, policies and programmes on health, nutrition, education, gender equality and employment.
- Governments must ensure that the pledges made at the 2015 Paris climate summit are implemented. Finance flows for climate adaptation must be increased, and the channels through which they will flow must be clarified, so that the poorest and most vulnerable communities are able to adapt to the impacts of climate change. Increasing water security for these communities must be deemed a suitable adaptation mechanism and made a priority within adaptation plans.

Appendix:

State of the World's Water: percentage of population living without access to safe water, lowest to highest, 2016⁸²

Country	% of population without access	Country	% of population without access
American Samoa	0	Sweden	0
Andorra	0	Switzerland	0
Armenia	0	Tokelau	0
Australia	0	Turkey	0
Austria	0	United Kingdom	0
Bahrain	0	Bhutan	0
Belgium	0	United States Virgin Islands	0
Cyprus	0	Martinique	0
Czech Republic	0	Cook Islands	0.1
Denmark	0	Bosnia and Herzegovina	0.1
Finland	0	Mauritius	0.1
France	0	Canada	0.2
French Polynesia	0	Barbados	0.3
Georgia	0	Belarus	0.3
Germany	0	Uruguay	0.3
Greece	0	Montenegro	0.3
Greenland	0	Democratic People's Republic of Korea	0.3
Hungary	0	Estonia	0.4
Iceland	0	United Arab Emirates	0.4
Israel	0	Croatia	0.4
Italy	0	Tonga	0.4
Japan	0	Guam	0.5
Luxembourg	0	Slovenia	0.5
Malta	0	Belize	0.5
Monaco	0	Bulgaria	0.6
Netherlands	0	Egypt	0.6
New Zealand	0	TFYR Macedonia	0.6
Norway	0	Guadeloupe	0.7
Portugal	0	Latvia	0.7
Qatar	0	United States of America	0.8
Romania	0	Serbia	0.8
Singapore	0	Réunion	0.9
Slovakia	0	Argentina	0.9
Spain	0	Kuwait	1.0

Country	% of population without access	Country	% of population without access
Chile	1.0	Trinidad and Tobago	4.9
Montserrat	1.0	Albania	4.9
Samoa	1.0	Saint Vincent and the Grenadines	4.9
Lebanon	1.0	Cuba	5.1
Maldives	1.4	Suriname	5.2
Niue	1.5	Panama	5.3
New Caledonia	1.5	Marshall Islands	5.4
Bahamas	1.6	Anguilla	5.4
Poland	1.7	Vanuatu	5.5
Saint Kitts and Nevis	1.7	India	5.9
Guyana	1.7	El Salvador	6.2
Malaysia	1.8	Jamaica	6.2
Brazil	1.9	Oman	6.6
Aruba	1.9	Gabon	6.8
Paraguay	2.0	South Africa	6.8
Ireland	2.1	Venezuela	6.9
Antigua and Barbuda	2.1	Kazakhstan	7.1
Thailand	2.2	Guatemala	7.2
Costa Rica	2.2	Philippines	8.2
Tunisia	2.3	Cape Verde	8.3
Tuvalu	2.3	Nepal	8.4
Vietnam	2.4	Pakistan	8.6
Northern Mariana Islands	2.5	Colombia	8.6
Cayman Islands	2.6	Honduras	8.8
São Tomé and Príncipe	2.9	Namibia	9.0
Saudi Arabia	3.0	Gambia	9.8
Russian Federation	3.1	Malawi	9.8
Jordan	3.1	Syrian Arab Republic	9.9
Grenada	3.4	Comoros	9.9
Lithuania	3.4	Bolivia	10.0
Nauru	3.5	Djibouti	10.0
Saint Lucia	3.7	Kyrgyzstan	10.0
Botswana	3.8	Micronesia	11.0
Ukraine	3.8	Ghana	11.3
Iran	3.8	Moldova	11.6
Mexico	3.9	Indonesia	12.6
Seychelles	4.3	Azerbaijan	13.0
Fiji	4.3	Nicaragua	13.0
Sri Lanka	4.4	Ecuador	13.1
China	4.5	Bangladesh	13.1

Country	% of population without access
Peru	13.3
Iraq	13.4
Morocco	14.6
Dominican Republic	15.3
Algeria	16.4
Burkina Faso	17.7
Côte d'Ivoire	18.1
Lesotho	18.2
Solomon Islands	19.2
Myanmar	19.4
Guinea-Bissau	20.7
Uganda	21.0
Senegal	21.5
Benin	22.1
Mali	23.0
Zimbabwe	23.1
Guinea	23.2
Congo	23.5
Rwanda	23.9
Burundi	24.1
Lao People's Democratic Republic	24.3
Cameroon	24.4
Liberia	24.4
Cambodia	24.5
Swaziland	25.9
Tajikistan	26.2
Timor-Leste	28.1
Nigeria	31.5
Central African Republic	31.5
Kiribati	33.1
Zambia	34.6
Mongolia	35.6
Kenya	36.8
Togo	36.9
Sierra Leone	37.4
South Sudan	41.3
Palestine	41.6
Niger	41.8
Mauritania	42.1
Eritrea	42.2

Country	% of population without access
Haiti	42.3
Ethiopia	42.7
United Republic of Tanzania	44.4
Afghanistan	44.7
Democratic Republic of the Congo	47.6
Madagascar	48.5
Mozambique	48.9
Chad	49.2
Angola	51.0
Equatorial Guinea	52.1
Papua New Guinea	60.0
Bermuda	No data
British Virgin Islands	No data
Brunei Darussalam	No data
Channel Islands	No data
China, Hong Kong SAR	No data
China, Macao SAR	No data
Dominica	No data
Faeroe Islands	No data
Falkland Islands (Malvinas)	No data
French Guiana	No data
Isle of Man	No data
Libya	No data
Liechtenstein	No data
Mayotte	No data
Netherlands Antilles	No data
Palau	No data
Puerto Rico	No data
Republic of Korea	No data
San Marino	No data
Somalia	No data
Sudan	No data
Turkmenistan	No data
Turks and Caicos Islands	No data
Uzbekistan	No data
Western Sahara	No data
Yemen	No data

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Adama Kabore lives on the outskirts of Ouagadougou, Burkina Faso. He has no safe water supply of his own so has to buy water from nearby tapstands. "Since yesterday I haven't had water in my house. Yesterday, I got some from a friend in order to drink and wash myself. Since this morning, there's been a water cut at the government fountains. How can you always be obliged to beg water to live like this? Water is a vital need."

Photo credit: WaterAid/Basile Ouedraogo



Written by Tom Burgess with support from
Carolynne Wheeler, Tim Brewer, Dan Jones, James Wicken,
Helder Samo Gudo, Behailu Shiferaw, Basile Ouedraogo,
Pragya Gupta, Nitya Jacob, Chileshe Chanda, WaterAid Madagascar,
WaterAid Papua New Guinea, Elisa Dehove, Miriam Denis Le Sève,
Fleur Anderson, Fiona Callister and Tamsin Maunder.

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Media contacts:

- Global/UK: Fiona Callister, fionacallister@wateraid.org; or Carolynne Wheeler, carolynnewheeler@wateraid.org; or pressoffice@wateraid.org
- USA: Alanna Imbach, alannaimbach@wateraid.org
- Canada: Graham Milner, gmliner@wateraidcanada.com
- Australia: Kirrily Johns, info@wateraid.org.au
- Sweden: Magdalena Olsson, magdalena.olsson@wateraid.se or Petter Gustafsson, petter.gustafsson@wateraid.se
- India: Pragya Gupta, pragyagupta@wateraid.org



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Australia: ABN 99 700 687 141.

Canada: 119288934 RR0001.

Sweden: Org.nr: 802426-1268, PG: 90 01 62-9, BG: 900-1629.

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