Oxfam GB’s Sustainable Water and Sanitation Strategy (Mizniak et al., 2017) states that, to achieve sustainability, we must ‘work with essential partners in a unified approach to connect poor and vulnerable communities to water and sanitation services, ensuring they are working equitably’ to ‘keep water and sanitation systems operational, accessible, and affordable’.

Building on our approach for measuring other complex themes, such as Women’s Empowerment (Bishop & Bowman, 2014; Lombardini et al., 2017) and Resilience (Hughes & Bushell, 2013; Fuller & Lain, 2015), we gathered a set of ‘dimensions’ to create a household-level Sustainable Water and Sanitation Index. The dimensions shown in Table 1 were developed by listing out and then consolidating factors identified in the following sources:

1. Oxfam GB’s Sustainable Water and Sanitation Strategy (Mizniak et al., 2017) and Outcomes-based Monitoring Framework (Medland, 2018)
2. Sustainable Development Goal 6 (UN 2018)
3. A literature review of existing frameworks and indexes relevant for measuring sustainable water and sanitation (Banerjee & Morella, 2011; Bartram et al., 2014; Bratton & Gyimah-Boadi, 2016; Giné-Garriga & Pérez-Foguet, 2018; Kayser et al, 2013; Porteous, 2016; Shilling et al., 2013; Thomas et al., 2018; WHO/UNICEF, 2017; Wilbur & Danquah, 2015)

Table 1. Six dimensions of Oxfam’s Sustainable Water and Sanitation index.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Security*</td>
<td>People have consistent and sufficient access to preferable and acceptable water; water is not a source of worry, shame, or anger.</td>
</tr>
<tr>
<td>Equity</td>
<td>Facilities, services, and related management systems and decision-making processes are inclusive all genders and vulnerable users.</td>
</tr>
<tr>
<td>Institutions</td>
<td>Duty-bearers are accountable and transparent, levels of trust are high, and there is an enabling environment for service provision.</td>
</tr>
<tr>
<td>Operations</td>
<td>Systems and services have an asset management scheme in place and enable easy and continuous access that is affordable and financially viable.</td>
</tr>
<tr>
<td>Well-Being</td>
<td>People are satisfied with life, they are healthy and unburdened by waterborne diseases, and their children are attending school.</td>
</tr>
<tr>
<td>The Environment</td>
<td>Communities have plans in place for water safety, waste management, water conservation, etc. and people are aware of and participate in these systems.</td>
</tr>
</tbody>
</table>

*Based on the Household Water Insecurity Experiences Scale (HWISE) (HWISE, 2019; Young et al., 2019).

The goal is to capture all key aspects that are known or suspected to contribute to the sustainability of water and sanitation systems and services. Having a single aggregate number (the index score) gives us a general sense of the water and sanitation situation of a population. At the same time, we can look at the different dimensions and indicators to understand possible stronger and weaker points. We can
use this information to track changes over time, to compare the situation in different communities, or to measure impact (e.g., by comparing the scores for groups of project participants and non-participants over time). Doing so can give us a more holistic measurement of our successes and failures (or both).

Figure 1 shows an example version of the index based on 14 indicators under six dimensions. The dimensions always remain constant, while the indicators are adaptable. However, indicators should not be removed simply because a project is not working on that aspect – the goal of the index is to capture what comprises Sustainable Water and Sanitation in the given context. Possible indirect effects can then also be better understood.

![Figure 1. Sustainable Water and Sanitation index dimensions (top row) and indicators.](image)

The index is assessed using data gathered through household questionnaires. Each indicator can be measured with one or more questions, where each question has a pre-defined threshold of acceptability, adapted from the approach of Alkire and Foster (2011). A positive result (above the threshold) receives a score of ‘1’, while a negative result (below the threshold) receives a score of ‘0’. Each indicator is calculated as the average of the scores for the individual questions, reported as a percentage on a scale from 0 to 100. Similarly, each dimension is calculated as the average of its indicators and the overall index is the average of the six dimensions, again on a scale of 0 to 100. Note that in cases where missing values are possible, the index can still be calculated by ignoring missing values. A detailed table of example questions is provided in Appendix 1.

We give equal weight to each dimension in the index; we have no theoretical justification to claim one is more important than another. Within each dimension, we also give equal weight to its indicators for the same reason. Therefore, individual questions are not weighted equally within the index; some indicators are measured with one question while others are measured by averaging 10 or more. Take the Equity dimension as an example with two indicators. Gender Inclusive is the average value across five variables (equity1, equity4, equity5, equity6, equity7) and Inclusive of Vulnerable Users is the average value across four variables (equity2, equity3, feeoptynwat, feeoptynsan). Equity equals Gender Inclusive plus Inclusive of Vulnerable Users, divided by two.

So far, in 2018 and 2019, the Sustainable Water and Sanitation Index has been used in three Oxfam GB Effectiveness Reviews in Africa. These evaluations (publications forthcoming) reviewed the impact of urban WASH projects in Lusaka, Zambia and Freetown, Sierra Leone and a rural WASH project in North Kivu, DRC.

For more information contact Jaynie Vonk jvonk1@oxfam.org.uk
Annex 1: Example Indicators, Questions and Thresholds for each Dimension

This Annex provides example indicators, questions and thresholds for each dimension of the Oxfam GB Sustainable Water and Sanitation Index. Most of these can be adapted to the given context (as noted in each case). However, indicators should not be removed simply because a project is not working on that aspect – the goal of the index is to capture what comprises Sustainable Water and Sanitation in the given context.

**Water Security dimension**

These 12 items should always be used together (HWise, 2019; Young et al., 2019).

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>hwise1</td>
<td></td>
<td>In the last month, how frequently did you or anyone in your household worry you would not have enough water for all of your household needs?</td>
<td>1 = Never (0 times) 2 = Rarely (1-2 times) 3 = Sometimes (3-10 times) 4 = Often (More than 10 times) 88 = Don’t know</td>
<td>Never = 1</td>
</tr>
<tr>
<td>hwise2</td>
<td></td>
<td>In the last month, how frequently has your main water source been interrupted or limited (water pressure, less water than expected, dried up)?</td>
<td></td>
<td>Rarely to Oftn = 0</td>
</tr>
<tr>
<td>hwise3</td>
<td></td>
<td>In the last month, how frequently have problems with water meant that clothes could not be washed?</td>
<td></td>
<td>Don’t know = missing</td>
</tr>
<tr>
<td>hwise4</td>
<td></td>
<td>In the last month, how frequently has you or anyone in your household had to change schedules or plans due to problems with your water situation?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise5</td>
<td></td>
<td>In the last month, how frequently have you or anyone in your household had to change what was being eaten because there were problems with water (for washing foods, cooking)?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise6</td>
<td></td>
<td>In the last month, how frequently have you or anyone in your household had to go without washing hands after dirty activities (defecating or changing diapers, cleaning animal dung) because of problems with water?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise7</td>
<td></td>
<td>In the last month, how frequently have you or anyone in your household had to go without washing their body because of problems with water (not enough water, dirty, unsafe)?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise8</td>
<td></td>
<td>In the last month, how frequently has there not been as much water to drink as you would like for you or anyone in your household?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise9</td>
<td></td>
<td>In the last month, how frequently did you or anyone in your household feel angry about your water situation?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise10</td>
<td></td>
<td>In the last month, how frequently have you or anyone in your household gone to sleep thirsty because there wasn’t any water to drink?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise11</td>
<td></td>
<td>In the last month, how frequently has there been no useable or drinkable water whatsoever in your household?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hwise12</td>
<td></td>
<td>In the last month, how frequently have problems with water caused you or anyone in your household to feel ashamed, excluded, and/or stigmatized?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Equity dimension**

In this dimension, indicators can be adapted as needed.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender Inclusive</td>
<td>equity1</td>
<td>The water and sanitation needs of people of all genders are being met equally.</td>
<td>1 = True 0 = False</td>
<td>True = 1 False = 0</td>
</tr>
<tr>
<td>Inclusive of Vulnerable Users</td>
<td>equity4</td>
<td>Women and men share equal responsibility in ensuring that the water and sanitation needs of their households are met.</td>
<td>1 = True 0 = False</td>
<td>True = 1 False = 0</td>
</tr>
<tr>
<td></td>
<td>equity5</td>
<td>Women and men are equally aware of how to provide feedback and submit complaints about local water and sanitation management.</td>
<td>1 = True 0 = False</td>
<td>True = 1 False = 0</td>
</tr>
<tr>
<td></td>
<td>equity6</td>
<td>Feedback and input from women and men about local water and sanitation management is equally valued.</td>
<td>1 = True 0 = False</td>
<td>True = 1 False = 0</td>
</tr>
<tr>
<td></td>
<td>equity7</td>
<td>Women and men are equally aware of their water and sanitation rights.</td>
<td>1 = True 0 = False</td>
<td>True = 1 False = 0</td>
</tr>
</tbody>
</table>

**Institutions dimension**

In this dimension, indicators can be adapted as needed.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountability</td>
<td>watsansatisfaction</td>
<td>Overall, how satisfied are you with your water and sanitation services and systems?</td>
<td>1 = Very dissatisfied 2 = Somewhat dissatisfied 3 = Somewhat satisfied 4 = Very satisfied</td>
<td>Very/somewhat satisfied = 1 Very/somewhat dissatisfied = 0</td>
</tr>
<tr>
<td></td>
<td>holdacc_yn</td>
<td>Have you done anything in the past year to try to encourage or pressure the government and service providers to provide better water and sanitation services?</td>
<td>1 = Yes 0 = No</td>
<td>Yes = 1 No = 0</td>
</tr>
<tr>
<td></td>
<td>holdacc_conf</td>
<td>How confident do you feel in your ability to encourage or pressure government and service providers to provide better water and sanitation services?</td>
<td>1 = Not confident 2 = Somewhat confident 3 = Very confident</td>
<td>Very/somewhat confident = 1 Not confident = 0</td>
</tr>
</tbody>
</table>
### Transparency

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparency</td>
<td>info_yn</td>
<td>Do you get any information about the management of your water and/or sanitation systems?</td>
<td>1 = Yes 0 = No</td>
<td>Yes = 1 No = 0</td>
</tr>
<tr>
<td>Transparency</td>
<td>info_who</td>
<td>Do you know who you can go to if you have questions, concerns or need information about your water and/or sanitation systems?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transparency</td>
<td>info_enough</td>
<td>Do you feel that you get enough information about the management of your water and sanitation services?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Trust

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Suggested Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trust</td>
<td>trust1</td>
<td>Local government?</td>
<td>1 = Not at all 2 = Just a little 3 = Somewhat 4 = A lot 9 = Not applicable</td>
<td>A lot/Somewhat = 1 Not at all/Just a little = 0 Not applicable = missing</td>
</tr>
<tr>
<td>Trust</td>
<td>trust2</td>
<td>Local Development Committee?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trust</td>
<td>trust3</td>
<td>Water and sanitation service providers?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trust</td>
<td>trust4</td>
<td>Property owner (landlord/landlady)? (if renter/cartaker)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trust</td>
<td>trust5</td>
<td>Non-governmental organisations (NGOs)?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trust</td>
<td>trust6</td>
<td>Community-based organisations (CBOs)?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trust</td>
<td>trust7</td>
<td>National/Central government?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Operations dimension

In this dimension, some variables are assessed using a threshold based on more than one question. These indicators can be adapted as needed.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Management</td>
<td>confident_oandm</td>
<td>For water and sanitation systems, how confident are you in the committee to manage routine operation and maintenance to avoid break downs?</td>
<td>1 = Not confident 2 = Somewhat confident 3 = Very confident 88 = Don't know 99 = No committee</td>
<td>Very/somewhat confident = 1 Not confident or No committee/Don't know = 0</td>
</tr>
<tr>
<td>Asset Management</td>
<td>confident_repair</td>
<td>If yes, for water and sanitation systems, how confident are you in this committee to manage major repairs after a break down?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asset Management</td>
<td>confident_replace</td>
<td>If yes, for water and sanitation systems, how confident are you in this committee to manage a full replacement if the current system cannot be repaired?</td>
<td>1 = Not confident 2 = Somewhat confident 3 = Very confident 88 = Don't know 99 = No committee</td>
<td>Very/somewhat confident = 1 Not confident or No committee/Don't know = 0</td>
</tr>
<tr>
<td>Asset Management</td>
<td>confident_shock</td>
<td>If yes, for water and sanitation systems, how confident are you in this committee to manage through a crisis, shock or disaster?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator</td>
<td>Variable</td>
<td>Question</td>
<td>Responses</td>
<td>Threshold for Index</td>
</tr>
<tr>
<td>-----------</td>
<td>----------</td>
<td>----------</td>
<td>-----------</td>
<td>--------------------</td>
</tr>
<tr>
<td><strong>Financial Viability</strong> (Average of 6 variables x 100)</td>
<td>feestructwat</td>
<td>What is the fee structure for use of the main system that you use for water?</td>
<td>1 = Fixed cost per month 2 = Fixed cost per amount or use 3 = Variable cost per month 4 = Variable cost per amount or use 5 = There is no fixed structure, payment is irregular, or it changes often 6 = There is no fee structure, it's free 8 = Don't know</td>
<td>Fixed or variable = 1  Irregular or free = 0  Don't know = 0</td>
</tr>
<tr>
<td></td>
<td>feestructsan</td>
<td>What is the fee structure for use of the main system that you use for sanitation?</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>paydifficultwat</td>
<td>How difficult is process of paying for services for water?</td>
<td>1 = Very difficult 2 = Somewhat difficult 3 = Not difficult at all</td>
<td>Not difficult at all = 1  Very/somewhat difficult = 0</td>
</tr>
<tr>
<td></td>
<td>paydifficultsan</td>
<td>How difficult is the process of paying for services for sanitation?</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>fairpricewat</td>
<td>Do you think your main service is fairly priced for water?</td>
<td>1 = The pricing is completely unfair 2 = The pricing is somewhat unfair 3 = The pricing is somewhat fair 4 = The pricing is completely fair</td>
<td>Completely/Somewhat fair = 1  Completely/Somewhat unfair = 0</td>
</tr>
<tr>
<td></td>
<td>fairpricesan</td>
<td>Do you think your main service is fairly priced for sanitation?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator</td>
<td>Variable</td>
<td>Question</td>
<td>Responses</td>
<td>Threshold for Index</td>
</tr>
<tr>
<td>----------------</td>
<td>----------</td>
<td>--------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>Accessibility</td>
<td>watimproved</td>
<td>What is your main source for drinking water during the dry season?</td>
<td>1 = Unimproved (unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, surface water, bottled/sachet water) 2 = Improved (public tap, standpipe, or kiosk, tube well or borehole, protected dug well, protected spring, rainwater collection) 3 = Piped water on premises (in the house or on the plot or yard)</td>
<td>Piped/Improved in both seasons = 1 Unimproved during one or both seasons= 0</td>
</tr>
<tr>
<td></td>
<td>sanimproved</td>
<td>What type of sanitation facilities do members of your household use most often now?</td>
<td>1 = None (in the open) 2 = Pit toilet/latrine, open/uncovered 3 = Pit toilet/latrine, closed/covered 4 = Flush toilet/latrine</td>
<td>Closed pit/flush toilet = 1 Open pit/none = 0</td>
</tr>
<tr>
<td>Accessibility</td>
<td>watdomestic</td>
<td>What is the main source you use for other domestic purposes?</td>
<td>1 = Unimproved (unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, surface water, bottled/sachet water) 2 = Improved (public tap, standpipe, or kiosk, tube well or borehole, protected dug well, protected spring, rainwater collection) 3 = Piped water on premises (in the house or on the plot or yard)</td>
<td>Piped/Improved = 1 Unimproved = 0</td>
</tr>
<tr>
<td></td>
<td>san_sp</td>
<td>Is your main toilet or sanitation facility private, only for your household, or is it shared?</td>
<td>Private = 1 Shared = 0</td>
<td>Private = 1 Shared = 0</td>
</tr>
<tr>
<td></td>
<td>wat_loc</td>
<td>Where is your main drinking water source located?</td>
<td>1 = off the property (off-plot) 2 = on the property (on-plot) 3 = in the house</td>
<td>In the house/On-plot OR less than 10 minutes total (walk + queue time) = 1 Off-plot AND more than 10 minutes total (walk + queue time) = 0</td>
</tr>
<tr>
<td></td>
<td>wataccess</td>
<td>When your main drinking water source is functioning normally, how many hours per day are members of your household able to access it?</td>
<td>Number of hours (1 to 24)</td>
<td>24 hours = 1 &lt;24 hours = 0</td>
</tr>
<tr>
<td></td>
<td>sanaccess</td>
<td>When your main toilet or sanitation facility is functioning normally, how many hours per day are members of your household able to access it?</td>
<td>Number of hours (1 to 24)</td>
<td>24 hours = 1 &lt;24 hours = 0</td>
</tr>
</tbody>
</table>
**Well-Being dimension**

In this dimension, indicators can be adapted as needed.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
</table>
| Quality of Life (Average of 2 variables x 100) | lifessatisfaction | Overall, how satisfied are you with life these days?          | 1 = Very dissatisfied  
2 = Somewhat dissatisfied  
3 = Somewhat satisfied  
4 = Very satisfied | Very/Somewhat satisfied = 1  
Very/Somewhat dissatisfied = 0 |
|          | pss-4    | In the last month, how often have you felt that you were unable to control the important things in your life? | 0 = Never  
1 = Almost never  
2 = Sometimes  
3 = Fairly often  
4 = Very often | (Calculate PSS-4)  
Total score 8 or more = 1  
Total score less than 8 = 0 |

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
</tr>
</thead>
</table>
| Health (Average of 7 variables x 100) | health | Overall, how would you describe your state of health now?     | 1 = Very poor  
2 = Poor  
3 = Good  
4 = Very good | Very good/Good = 1  
Very poor/Poor = 0 |
|          | stomachpain | In the last week, have you had any stomach pain (because of a health problem/illness)? | 1 = Yes  
0 = No | No = 1  
Yes = 0 |
|          | fever | In the last week, have you had a fever?                      | 1 = Yes  
0 = No | No = 1  
Yes = 0 |
|          | diarrhoea | I'm sorry to have to ask this, but in the last week, have you had any diarrhoea? | 1 = Yes  
0 = No | No = 1  
Yes = 0 |
|          | unwell | In the last week, have you felt so unwell that you had to interrupt your normal daily activities (because of a health problem/illness)? | 1 = Yes  
0 = No | No = 1  
Yes = 0 |
|          | typhoid | Have you had typhoid (diagnosed at a health centre or hospital) in the last 1 year? | 1 = Yes  
0 = No | No = 1  
Yes = 0 |
|          | cholera | Have you had cholera (diagnosed at a health centre or hospital) in the last 1 year? | 1 = Yes  
0 = No | No = 1  
Yes = 0 |
<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td><strong>(Average of 3 variables x 100)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>schoolnow</strong> Are all school-aged children in the household attending school? (ideally counted from household roster)</td>
<td>1 = Yes</td>
<td>Yes = 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 = No</td>
<td></td>
<td>No = 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>absenceany</strong> Have any school-aged children in the household missed school in the past 1 month for any reason? (ideally counted from household roster)</td>
<td>1 = Yes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 = No</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>absencewatsan</strong> Have any school-aged children in the household missed school in the past 1 month due to water and sanitation related issues such as inadequate facilities at the school, too busy collecting water, etc.? (ideally counted from household roster)</td>
<td>1 = Yes</td>
<td>No = 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 = No</td>
<td></td>
<td>Yes = 0</td>
</tr>
</tbody>
</table>

**The Environment dimension**

In this dimension, indicators can be adapted as needed.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Variable</th>
<th>Question</th>
<th>Responses</th>
<th>Threshold for Index</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Safety</strong></td>
<td></td>
<td><strong>(Average of 3 variables x 100)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>environment1</strong> Water systems in my community are monitored to ensure water is safe to drink.</td>
<td>1 = True</td>
<td>True = 1</td>
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<td></td>
<td></td>
<td>0 = False</td>
<td></td>
<td>False = 0</td>
</tr>
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<td></td>
<td></td>
<td><strong>environment2</strong> Water safety plans exist and are enforced to protect drinking water sources in my community from contamination.</td>
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<td><strong>environment3</strong> Water points are fenced and animals are contained to keep drinking water safe.</td>
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<tr>
<td><strong>Waste Management</strong></td>
<td></td>
<td><strong>(Average of 4 variables x 100)</strong></td>
<td></td>
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<td><strong>environment4</strong> Sanitation systems in my community are monitored to ensure wastewater/sewage is safely managed.</td>
<td>1 = True</td>
<td>True = 1</td>
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<td></td>
<td></td>
<td>0 = False</td>
<td></td>
<td>False = 0</td>
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<td><strong>environment5</strong> Solid waste management plans exist and are enforced to keep my community clean from refuse.</td>
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<td><strong>environment6</strong> People in my community participate together in a monthly or weekly cleaning day.</td>
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<td><strong>environment7</strong> My community has been certified as Open Defecation Free (ODF).</td>
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</tbody>
</table>
References