

Camp 3, Ukhia Upazila, Cox's Bazar District, Bangladesh

# Ø Overview & Methodology

WASH Sector Cox's Bazar

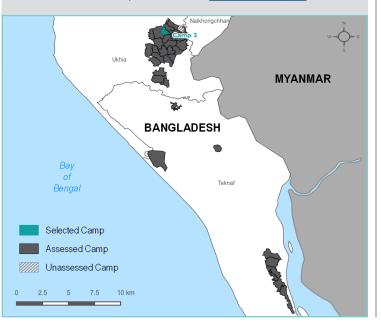
Since August 2017, an estimated 727,000 Rohingya refugees have arrived in Bangladesh's Cox's Bazar District from Myanmar, bringing the total number residing in Bangladesh to approximately 921,000.<sup>1</sup> The unplanned and spontaneous nature of the post-August Rohingya refugee camps have combined with high population densities and challenging environmental conditions to produce a crisis with especially acute water, sanitation and hygiene (WASH) needs.

In April 2018, REACH undertook a WASH household assessment in the framework of the Cox's Bazar WASH Sector with UNICEF support, which established a baseline for WASH conditions and perceptions amongst Rohingya refugee communities in Cox's Bazar District. Between August and October 2018, REACH undertook this follow-up assessment, taking the form of a household survey covering 33 out of the 34 Inter Sector Coordination Group-recognised camps, with Kutupalong RC the only exception due to ongoing security concerns. Due to issues surrounding access, enumerators were able to access some of the camps only intermittently between 12 and 26 September 2018.

This follow-up assessment aims to understand changing WASH conditions across the Rohingya refugee camps since April 2018, and where possible understand the impact of the monsoon season, to inform priority areas and types of humanitarian programming. Results of this follow-up assessment are generalizable at the camp level with a 95% confidence level and a 10% margin of error. The method of identifying heads of households as primary respondents in the baseline survey resulted in a low proportion of female respondents. To address this limitation, this follow-up survey required enumerators to interview refugees of the same gender only. As a result, menstrual hygiene indicators are not included in camp-level factsheets, due to an insufficient number of females having been interviewed to yield generalizable results, however these indicators are included in the all-camp summary factsheet. This factsheet presents an analysis of data collected within Camp 3, where 116 households were surveyed,<sup>2</sup> as well as an indicator comparison table displaying changes in WASH conditions between the baseline and follow-up assessments.

Enumerator training took place prior to the start of data collection, including sessions on testing for residual chlorine run by the Centre for Disease Control, as well as Prevention of Sexual Exploitation and Abuse (PSEA) run by UNHCR. Support for questionnaire translation from English to Rohingya language and enumerator language training was provided by Translators Without Borders.

As part of this assessment, 33 camp-level factsheets and one all-camps summary factsheet display key findings from the survey. All REACH products, including those related to the baseline assessment, are available on the <u>REACH Resource</u> <u>Centre</u>. In addition, all datasets are available on <u>Humanitarian Data Exchange</u>, while all factsheets and maps are available on HumanitarianResponse.



# **Demographics**

Population in camp (individuals) <sup>3</sup>	39,257
Population in camp (families) <sup>3</sup>	9,118
Average age of respondent	39
Average household size	5.3

### Composition of surveyed households





46% of respondents were female



30% of heads of households were female



**57%** of households with at least one child under 5 years old

# % of households reporting different levels of overall satisfaction with water, sanitation and hygiene

Very satisfied	12%	
Satisfied	64%	
Unsatisfied	23%	
Very unsatisfied	1%	I

<sup>1</sup>Inter Sector Coordination Group Situation Report Data Summary (27 September, 2018). See: https://bit.ly/2D36vx5

<sup>2</sup>Please note that 4 surveys from Camp 3 contained water container measurement outliers and were excluded from data analysis, to avoid skewing data. This did not affect the confidence level for Camp 3.

<sup>3</sup>Due to relocations of refugees to extension camps occurring at the time of assessment, population numbers for Camp 4 Extension and Camp 20 Extension were derived from the UNHCR Family Counting August 15, 2018 dataset, while population numbers for the remaining 31 camps surveyed were derived from the July 15, 2018 dataset. This assessment considers a household a 'family' as defined in the UNHCR Family Counting datasets.



For more information, please contact REACH: bangladesh@reach-initiative.org WASH Sector Cox's Bazar Water, Sanitation and Hygiene Follow-up Assessment Monsoon Season (August - October 2018)

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# • Water

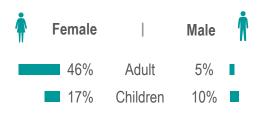
# Water access

% of households reporting primary water sources for drinking water  $^{\!\!\!\!^4}$ 

Primary	drinking	water	sources	
---------	----------	-------	---------	--

✓ Improved water sources	100%
Tubewells/boreholes/handpump	99%
Tapstand	0%
Protected dugwell	0%
Protected spring	0%
Cart with small tank/drum	0%
Tanker truck	0%
Water tank	1%
Rainwater collection	0%
Bottled water	0%
x Unimproved water sources	0%
Unprotected dugwell	0%
Unprotected spring	0%
Surface water	0%

% of households reporting household members that normally collect water





**39%** of households reported total water collection time (combined travel and waiting) as more than 30 minutes<sup>5,6</sup>

**48%** of households reported problems with accessing water

% of households reporting different problems with accessing water^7

0	Source is too far away	27%
2	Long wait time	24%
3	Path to water source is too steep	<b>21%</b>

% of households reporting changes in access to water compared to before the monsoon season

Much better	2%	L
Better	38%	
No change	56%	
Worse	4%	1 - C
Much worse	0%	

# Water collection and storage

## Average amount of water collected by households<sup>8</sup>

	Drinking water	Non-drinking water	All domestic water
Average litres collected per person, per day for each household	3L	5L	8L



**58%** of households reported collecting at least 15 litres of water for all domestic uses per person, per day<sup>9</sup>



**86%** of households reported collecting at least 3 litres of drinking water per person, per day<sup>10</sup>

# % of containers within households that were:

Clean:

94% Covered AND clean:

91%

<sup>4</sup>Cox's Bazar WASH Sector considers 'improved' water sources as listed

<sup>5</sup>There were no significant differences in responses from females and males

<sup>6</sup>SDG JMP standard for combined travel time to/waiting time at water source:

30 minutes or less: See: https://bit.ly/20NrjQg

<sup>7</sup>Respondents could select multiple options

<sup>®</sup>Respondents were asked to present all water containers used to collect water the day prior to the survey, then identified which containers are used for drinking water, non-drinking water, or both. All containers were measured with tape measures to determine approximate volume.

SPHERE minimum standard for all domestic water: 15 litres/person/day

See: https://bit.ly/UKcX1Z <sup>10</sup>SPHERE minimum standard for drinking water: 2.5 - 3 litres/person/day:

See: https://bit.ly/UKcX1Z







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### % of households reporting using types of containers used for all domestic water<sup>11,12</sup>

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0	Aluminium pitcher	98%
2	Bucket	59%
в	Plastic container	11%

% of households reporting duration of all domestic water storage within the household

Less than one day	84%	
1-2 days	14%	
3-4 days	2%	1
5 days or more	0%	

% of containers tested for chlorine returning chlorine residual (c/r) values<sup>13</sup>

3	2	1.5	1	.6	.3	0.1	0.0
c/r							
0%	1%	0%	5%	1%	6%	22%	65%



of households reported witnessing someone treating water with chlorine the last time they were at a waterpoint<sup>14</sup>



of households reported normally treating water before drinking

% of households reporting using types of water treatments<sup>11,15</sup>

0	Aquatabs	<b>63%</b>
2	Boiling	1%
B	Cloth filters	1%
% of ho	usebolds reporting reasons for not using	

### % of households reporting reasons for not using aquatabs<sup>16</sup>

0	Supply of aquatabs ran out	43%
2	Never received aquatabs	38%
3	Aquatabs taste bad	<b>19%</b>

# **Coping strategies**



6% of households reported facing problems accessing water in the month prior to data collection

% of households reporting employing different coping strategies to compensate for water insufficiency in the month prior to data collection<sup>11,17</sup>

0	Use a source that is further away	4%
2	Use untreated water for drinking	3%
3	Use untreated water (non-drinking)	2%

# Sanitation

# **Defecation and latrines**

% of households reporting different household members normally defecating in different spaces

Places of defecation	Females ≥5	Males ≥5	Children <5
Communal/public latrines	71%	76%	43%
At facilities (e.g. school, clinic)	0%	0%	0%
Single household latrine (self-made)	0%	0%	3%
Single household latrine (non-self made)	1%	1%	0%
Shared household latrine (self-made)	11%	9%	8%
Shared household latrine (non-self made)	16%	14%	11%
Open defecation	0%	0%	30%
Bucket	0%	0%	0%
Other	0%	0%	3%



66% of households reported presence of soap the last time they were at the latrine

### % of households reporting women and men facing problems with accessing latrines



- <sup>12</sup>Three most common types of water containers for all domestic purposes are shown <sup>13</sup>Enumerators tested water for chlorine with pool testers in containers where
- respondents reported using the container for collecting drinking water. 154 out of 260 total water containers were tested for chlorine across within Camp 3
- <sup>14</sup>This indicator relates to an initiative in camps where volunteers or staff assist
- people put chlorine in their water containers when at a waterpoint

<sup>15</sup>Three most common types of water treatments used are shown

<sup>17</sup>Three most common strategies to compensate for water insufficiency are shown





<sup>&</sup>lt;sup>16</sup>This question was asked when respondents reported not using aquatabs. Three most common reasons for not using aquatabs are shown



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% of households reporting women and men facing types of problems accessing latrines<sup>18,19</sup>

WASH Sector

Cox's Bazar

	🛉 Women	I	Men 👖	
41%	Too many people	0	Too many people	25%
22%	No gender sepa- ration	2	Unclean	8%
15%	Unclean	в	Latrine is full	7%



**21%** of households reported at least one member feeling unsafe when using latrines

# % of households reporting different family members feeling unsafe when using latrines

Ť	Fe	male	ĺ	Male	Ň
	I	4%	Elderly	0%	
		8%	Adults	4%	۱.,
		11%	Children	4%	I.

% of households reporting changes in access to latrines compared to before the monsoon season

Much better	2%	I.
Better	44%	
No change	42%	
Worse	8%	
Much worse	4%	1 - C

# **Environmental sanitation**



unicef

**17%** of households reported stagnant water gathering around the household following heavy rain

% of households reporting spaces used for disposing of domestic waste^{\ensuremath{^{20}}}

0	Designated open area	45%
2	Communal pit	<b>26%</b>
3	Bury it	17%

# % of households reporting employing different methods for disposing of children's faeces<sup>21,22</sup>

Methods	
✓ Safe methods	7%
Collected, rinsed and disposed in latrine	5%
Collected and disposed in latrine (not rinsed)	2%
x Unsafe methods	26%
Collected, rinsed and disposed in the shelter	0%
Collected and disposed in an open area	16%
Disposed with other garbage	5%
Buried it	0%
Open defecation	5%

# 🆫 Hygiene

# Soap and handwashing

% of households reporting possession of soap for handwashing^{\rm ^{23}}

Yes (enumerator did see soap):

96% Yes (enumerator did not see soap):

2% No: 3%



**14%** of households reported facing challenges with accessing soap

# % of households reporting facing different problems with accessing soap<sup>24</sup>

0	Insufficient soap is provided in distributions	7%
2	Soap is too expensive	5%
3	Other needs are prioritised	5%



**21%** of households were able to identify at least three critical handwashing times<sup>25</sup>

<sup>18</sup>Respondents could select multiple options

<sup>19</sup>Top three most common problems with accessing latrines are shown

<sup>20</sup>Top three most common locations for disposing of domestic waste are shown

<sup>21</sup>Only households with at least one child under 5 were asked where they dispose of children's faeces. Global WASH Cluster standard: collecting and disposing of children's faeces in a latrine (rinsed and non-rinsed) is considered safe. See: https://bit.ly/2ACcRCf

<sup>22</sup>Only households reporting having at least one child under 5 were asked about disposing of child faeces; data shown relates to the proportion of all surveyed households and therefore does not equal 100 <sup>23</sup>Respondents were asked to present soap to enumerators

<sup>24</sup>Top three most common problems with accessing soap are shown

<sup>25</sup>Global WASH Cluster standard: the six critical times when people should wash their hands are (1) before eating, (2) before cooking, (3) after defecation, (4) before breastfeeding, (5) before feeding children, and (6) after handling a child's stool/changing a child's nappy/cleaning a child's bottom. See: https://bit.ly/2ACcRCf





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# % of households identifying different times when someone should wash their hands<sup>26</sup>

WASH Sector Cox's Bazar

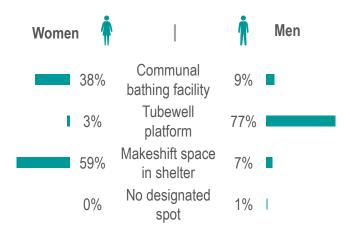
After defecation	93%	Before prayer	19%
Before eating	64%	After handling child faeces	13%
After eating	46%	Before feeding children	11%
When hands look dirty	38%	When hands feel dirty, sticky, oily	11%
Before cooking/ meal preparation	34%	Before breastfeeding	0%

# % of households reporting methods for handwashing

Soap and water	98%	
Water only	1%	I
Water and ash	1%	L

# Bathing

% of households reporting women and men using types of bathing facilities



# % of households reporting durations to walk to and from bathing facilities normally used

>30 mins	1%	1
30 mins	1%	1
20 mins	1%	1
15 mins	4%	1.1
10 mins	23%	
≤5 mins	70%	

% of households reporting women and men facing problems with accessing bathing facilities

Ť	Women 36%		7% Men	Ť
	ouseholds reportin of problems with a	-		-
	🛉 Women	Ι	Men 👖	
13%	Too many people	0	Too many peo	ople 6%
10%	Facility is unsafe	2	Facility is unc	lean 4%
8%	Not private	3	Rubbish near facility	by <b>2%</b>

% of households reporting different family members feeling unsafe using bathing facilities

Ť	Females	I	Males	Ń
	0%	Elderly	0%	
	<b>1</b> 0%	% Adults	0%	
	6%	b Children	1%	

% of households reporting changes in access to bathing facilities compared to before the monsoon season

Much better	4%	•
Better	40%	
No change	52%	
Worse	4%	1 - C
Much worse	0%	

# Laundry

% of households reporting using types of spaces to do laundry

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Tubewells	42%	
Communal bathing facility	30%	
Inside the shelter	28%	

<sup>26</sup>Respondents could select multiple options

<sup>27</sup>Top three difficulties with accessing bathing facilities for women and men are shown





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# **Hygiene distributions**

**NASH** Sector

Cox's Bazar

% of households reporting having received a 'full' WASH hygiene kit<sup>28</sup>

In the last month In the last 3 months In the last 6 months In the last year More than one year ago Never received

20% 9% 27% 7% 7% 30%

### % of households reporting having received a 'top-up' WASH hygiene kit<sup>29</sup>

In the last week	11%	
In the last 2 weeks	21%	
In the last month	13%	
More than 1 month ago	11%	
More than 2 months ago	10%	
More than 3 months ago	18%	
Never received	16%	

# Hygiene training and demonstrations



71% of households reported having participated in at least one hygiene training or demonstration within two weeks prior to the survey

### % of households reporting different hygiene training or demonstrations that households members<sup>30,31</sup>

Have pa	articipated in already:		Would like to participa	te in:
63%	Hand washing with soap	0	Safe water chain management	39%
56%	Food hygiene	2	Hand washing with soap	31%
55%	Safe water chain management	3	Food hygiene	28%

# Diarrhoea and cholera/acute water diarrhoea<sup>32</sup>

% of households identifying different diarrhoea prevention methods<sup>31</sup>

Wash hands with soap	89%	
Drink only clean water	69%	
Use latrines	63%	
Eat only safe food	62%	
Vaccination	19%	

% of households identifying different diarrhoea causes<sup>31</sup>

Dirty water	87%
Dirty food	86%
Dirty hands	56%
Open defecation	48%
Germs	30%

% of households identifying different signs of cholera/ acute watery diarrhoea<sup>31</sup>

Rice watery stools	93%	
Vomiting	57%	
Rapid dehydration	46%	
Stomach pain/cramps	46%	
Sunken eyes	7%	•

28'Full' hygiene kits include non-consumables (i.e. water containers)

<sup>29</sup>'Top-up' hygiene kits include consumables (i.e. soap, shampoo)

<sup>30</sup>Top three most common hygiene trainings that households have participated in and would like to participate in are shown

<sup>31</sup>Respondents could select multiple options

<sup>32</sup>Acute water diarrhoea is commonly referred to as AWD









# -III Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

The following table displays a comparison of findings from the REACH WASH Household Baseline (April 2018) and Monsoon Follow-up (August - October 2018) assessments, showing changes in WASH conditions within Camp 3 in Cox's Bazar District, Bangladesh. The table identifies the recognised WASH monitoring frameworks from which indicators were adopted in designing the assessments, highlighting indicators reportable across muliple frameworks where applicable.

		Monito	Monitoring frameworks	leworks		REACH WASH	REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global WPSH Cluster	Rohingya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
<ul> <li>Water</li> </ul>							
% of households with access to an improved <sup>1</sup> water source for drinking	>	>	>	>	>	100%	100%
% of households with access to an improved <sup>1</sup> water source for other purposes (i.e. cooking and cleaning)	>	>	>	>	>	%66	100%
% of households accessing an adequate/sufficient quantity of water <sup>2.3</sup> - drinking water = 3 litres/person/day - all domestic water = 15 litres/person/day	>>				>>		86% 58%
% of households reporting facing problems with accessing water in the month prior to data collection	>						6%
% of households that use improved <sup>1</sup> water sources exceeding 30 minutes collection time <sup>4</sup>				>	>		39%
% of households reporting being satisfied or very satisfied with access to water	>				>	68%	76%
% of households that practice household water treatment	>	>			>	12%	65%
							Colour key: Green = positive change from baseline Orange = no change from baseline Red = negative change from baseline Grey = not assessed in baseline
Footnotes: "Cost Sear MSAH Sector standard for improved water sources: piped water into settlement site/public tap/standpipe, tubewell/borehole/handpump, protected dugwell, protected spring, rainwater collection, bottled water, cart with small tank/drum, water tank	ollection, bottled wat	er, cart with small t	ank/drum, water tan	¥			

\*SPHERE standard for sufficient quantity of water: drinking water = 2.5 - 3 litres/person/day; drinking and non-drinking water combined: 15 litres/person/day

Water quantify data from the baselie survey is not included in this comparison table due to limitations resulting from the method of estimating water capacity through enumerators' observation of water containents within households. Water quantity data from the follow-up

survey is included due to the more reliable method used of enumerators measuring each water container within the household with a tape measure to determine approximate litre capacity of drinking and non-drinking water.

water source. Additional monitoring frameworks have been toked as they contain indicators that may be reported on by using the same findings from the baseline and/or follow-up surveys, as follows: Global WASH Clustent: % of households with access to a source of safe water; Source and indicators that may be reported on by using the same findings from the baseline and/or follow-up surveys, as follows: Global WASH Clustent; So thouseholds with access to a source of safe water; Source and safe water; Sources; Rohingia Response DRPS: # of fourseholds with access to a source of safe water; Source of safe water sources; Rohingia and sources; Rohingia and sources; Rohingia and source and safe water is used for drinking and cooking. As such assessment findings may be aggregated to the fire listed monitoring frameworks. The same principle applies to all common indicators. Please note: Indicates is elentified as reportable across multiple monitoring frameworks are worded primarily as per Cox's Bazar WASH Sector indicators (with access to an indicator section and and in the same works or indicators with additional monitoring frameworks containing similar indicators with a cost section are indicators with access to an indicator section are indicators with access to an indicator section are indicators are worded primarily as per Cox's Bazar WASH Sector indicators with access to an indicator section are indicators are worded primarily as per Cox's Bazar WASH Sector area are indicators are indicators are indicators are indicators are indicators are indicator are indicators are indicators are indicator are indicators are indicators are indicators are indicators are indicators are indicators are indicator are indicators are

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-II Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

		Monitor	Monitoring frameworks	eworks		REACH WASH	REACH WASH Household Data
Indicators	Cox's Bazar WAAN Sector	Global WASH Cluster	Panopaga Response Plan Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
<ul> <li>Water (cont.)</li> </ul>							
% of households possessing at least one acceptable narrow-necked or covered container for drinking		>			>	96%	98%
% of households with appropriate household water storage containers (covered and clean)	>				>	ı	91%
Sanitation							
% of households in which at least one member practices open defecation     - age five and over     - under five		>>				0% 51%	30% 30%
% of households reporting being satisfied or very satisfied with access to latrines						66%	75%
% of households reporting presence of human faeces around the site/block often or always					>	4%	28%
$\%$ of households reporting disposing of faeces of children under 5 in a safe $^5$ manner		>				55%	7%
% of households reporting being satisfied or very satisfied with the solid waste management system around the site/block						76%	74%
							Colour key; Ceen = positive change from baseline Orange = no change from baseline Red = negative change from baseline Gray = not assessed in baseline

See monitoring frameworks at the following links: Cox's Bazar WASH Sector: <u>https://bit.W2ZicvCo</u> 1 Global WASH Cluster: <u>https://bit.W2ZicvCo</u> 1 Global WASH Cl Footnotes: <sup>5</sup>Clobal WASH Cluster standard: collecting and disposing of children's faeces in a latrine (rinsed and non-rinsed) is considered safe.



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-III Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

		Monitoring frameworks	ng fram	eworks		REACH WASH I	REACH WASH Household Data
Indicators	Cox's Bazar WPSH Sector	Global WASH Cluster	Poningya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
The Hygiene							
$\%$ of households in which respondent can identify at least 3 of the critical hand washing times $^6$		>	>		>	ı	21%
% of households reporting possession of soap or rubbing agent or having received soap as part of a distribution	>	>	>			74%	98%
% of households reporting problems with accessing soap						45%	14%
% of households reporting problems with accessing bathing facilities		>					38%
% of households reporting being satisfied or very satisfied with access to bathing facilities					>	72%	68%
% of households having received a WASH hygiene kit and/or top-up kit and/or a voucher <sup>7</sup>	>		>				59%
% of households having recently participated in at least one hygiene training or demonstration						86%	71%
% of targeted women, men, boys and girls who are satisfied or very satisfied with the hygiene related information shared			>				98%
							Colour key: Green = positve change from baseline Ocape = no change from baseline Red = negative change from baseline Grey = not assessed in baseline

Footnotes: \*Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before cooking. (2) after defection. (4) before breastfeeding. (5) before freeding. (5) before freeding children, and (6) after handling a childr s stool/changing a nappy/deaning a childr s bottom. \*Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before eating. (2) after defection. (4) before breastfeeding. (5) before freeding. (5) before freeding children, and (6) after handling a childr s tool/changing a nappy/deaning a childr s bottom. \*Respondents were asked when they last received (1) a hygiene kit containing non-containing on sumables (i.e. scep). No questions in relation to vocchers were asked. Refer to page 6 of factsheet for more information.

See monitoring frameworks at the following links: Cox's Bazar WASH Sector: https://bit/W2ZCBRC1 Rohingya Response Plan 2019; https://bit/W2K/IZ

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