

Head of Household Gender: Male

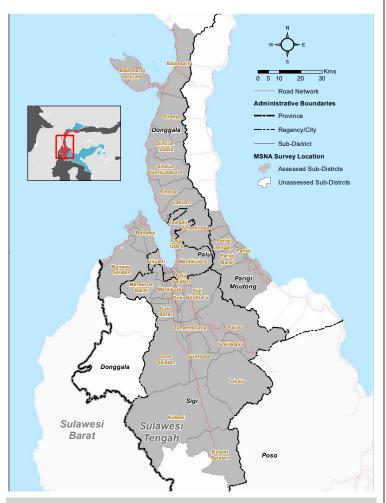


Background and methodology

Following a 7.7 magnitude earthquake on 28 September, 2018, large parts of Palu, Donggala, Sigi, and Parigi Moutong regencies in Central Sulawesi province were destroyed by earthquake, tsunami, and liquefaction events. As of 10 December 2018, approximately 2,101 people have been killed, 1,373 are missing, and an estimated 133,631 individuals were displaced in informal settlements. An estimated 15,000 houses have been destroyed and another 17,000 heavily damaged. However, four months after the initial disaster, there is still very little understanding of the needs and vulnerabilities of the affected population in Central Sulawesi Province.

To fill this gap, a Multi-Sector Needs Assessment (MSNA) was conducted by Humanitarian Forum Indonesia (HFI) and Universitas Muhammadiyah Palu (UNISMUH) with oversight from the Ministry of Social Affairs (Kemensos) and technical support from REACH, in 38 of 62 sub-districts in the four affected regencies of Central Sulawesi Province.

A sample of 3835 out of a total population of 253,926 households were surveyed across the four affected regencies between 22 January and 6 February 2019.2 Results were weighted by population and generalizable to the crisis level with 99% confidence level and 2.5% margin of error.



Respondent metadata³

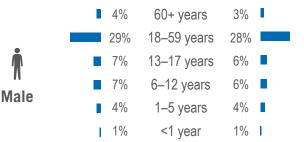
3835 Total households interviewed

Average age of respondent in years

43% of respondents were female

Demographics

Household composition by gender and age





Head of Household

NA of heads of households were female

12% of heads of households were elderly

45 average age of the head of household in years

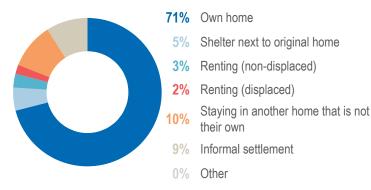
Dependency ratio4

0.7 average youth dependency ratio

0.2 average elderly dependency ratio

0.9 average age-dependency ratio

% of households by current living location:5



- 1. Central Sulawesi Earthquake & Tsunami, Humanitarian Country Team Situation Report #10, 10 December 2018.
- 2. The boundaries and names used on this map do not imply official endorsement or acceptance by REACH, UNICEF, HFI, or UNISMUH. Population data was extracted at desalevel from SIAK (Population Information Administration System) database, Ministry of Home Affairs (MoHA, 2017). Population of missing desas was imputed using data from the Indonesia Bureau of Statistics, 2010.
- 3. Respondent metadata provides information on the respondents interviewed for the questionnaire. While the respondent was usually the head of household, if the head of household was not present at the time of interview, a member of the household knowledgeable about household affairs responded instead. This section only shows information on respondents, not the heads of household. Results in this section are not weighted by population, and should be considered as indicative.
- 4. Age-dependency ratio was calculated by dividing the number of under-age and elderly (non-productive) individuals (0-17 years for youth and 60+ years for elderly) by the number of adult (productive) individuals in the population (18-59 years). Anything below 1 shows that the population is mostly adults of working-age who can provide for those who are not
- 5. Households were categorised based on whether they were still living on their original land, or if they were displaced by the disaster. Those living in their original home, renting (in the same location both before and after the disaster) or living in a tent/makeshift shelter next to their



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42









Head of Household Gender: Male



★ Y Displacement and Protection

Displaced population⁵

of households were no longer living in their original house 26% due to the disaster

% of households no longer living on land they own by distance from their current living location to their original house:



Nearby/on site

Within 2km

Between 2km-5km

More than 5km or Don't 15% know

Non-displaced population⁵

of non-displaced households were hosting at least one displaced household to stay in a house that they own

There is an average of 3 IDP individuals in each displaced household hosted by a non-displaced household

average dependency ratio of displaced household size to hosting household size for non-displaced households 0.6 hosting IDPs⁶

Movement intentions in the next 6 months

% of households by where they most want to move to within the next six months:7

Remain in the current location Move into the Government

Return back to original home

Transitional Shelter

Top 3 most reported reasons as to why households chose to move or to stay in their preferred living location for the next 6 months:8

House destroyed/ 56% severely damaged Heavy damage to house 35%

Mild damage to house 20%

Protection of Women's Needs

of households contained at least one pregnant or 16% lactating woman

original home were living on their original land and considered to be non-displaced. Those living with friends or family, in an informal settlement, or renting after they were displaced from their homes were no longer living on their original land and had been displaced by the disaster. For households living in their original home, categorization of displacement was the same, except that those staying in tents next to their original home were considered to be displaced.

5. N Disabilities, Elderly, Minorities

of households contained at least one member with a 2% self-reported physical or mental disability

Child Protection

of households contained at least one child that was 3% separated from their usual caregiver

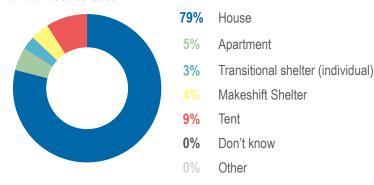
Psychosocial Support

of households reported having at least one member 51% experiencing emotional distress from the disaster

Shelter

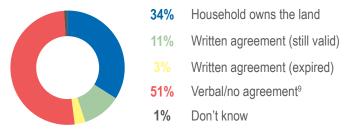
Shelter conditions

% of households by type of shelter they are currently living in at the time of data collection:



of households reported that their original shelter was either 66% destroyed or damaged by the disaster

% of households by state of tenure for house at the time of data collection:



of households reported that they were at risk of 2% being forced to leave where they were staying at the time of data collection

- 6. Dependency ratio is calculated by dividing the number of IDP individuals being hosted by the total size of the host household. The number shows the relative burden that hosting households have to support IDP households.
- 7. Single-choice question; only the top three responses are shown.
- 8. Respondents could select multiple responses; therefore results may exceed 100%; only the top three choices are shown.
- 9. In many households in Central Sulawesi, there is a cultural practice in which a specific household owns many plots of land, and other households are permitted to live on it without any formal agreement.













Head of Household Gender: Male



Top 3 reported reasons households were at risk of being forced to leave their shelters at the time of data collection:10

0	Authorities requested our household to leave.	56%	
2	Request to vacate from	42%	



of households reported having lost the ownership 6% documents for their original shelter before the disaster

Preferred Shelter Assistance

of households reported that they would prefer to 67% rebuild or repair their original home in the next 6 months

Top 3 preferred types of assistance that households wanted to receive in order to rebuild/repair their homes in the 6 months after data collection:11

0	Assistance to build/repair shelter	54%	
2	Building materials (concrete, wood)	45%	
3	None	19%	

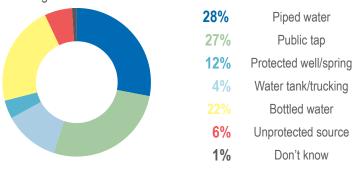
Top 3 most needed Non-Food Items (NFIs):11



Water, Sanitation and Hygiene

Access to Water

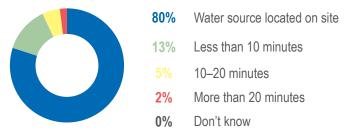
% of households acquired most of their drinking water from the following sources:



of households reported drinking water that had been 95% treated and was safe to drink

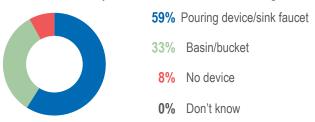
of households reported having enough water to 87% meet their total needs for drinking, cooking, bathing, and washing

% of households by reported amount of time it takes to walk to main water source, fetch water, and return (including queuing at the water source):



Hygiene practices

% of households by location used for hand washing:

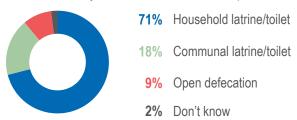


93% of households have water available for hand washing

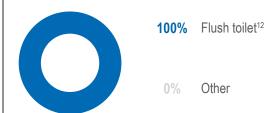
65% of households have soap available for hand washing

Sanitation conditions

% of households by most common defecation practice:



% of households using a household or communal latrine/toilet, by type of latrine/toilet:



- 10. Respondents could select multiple responses; therefore results may exceed 100%; only the top three choices are shown.
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- 12. "Flush toilets" includes both toilets where a lever automatically makes the toilet flush and the practice of dumping water town the toilet to cause it to flush manually.













Head of Household Gender: Male



There is an average of **14** households reported to be sharing each communal latrine¹³

Communal latrine conditions

82% of households with communal latrines reported their toilet had adequate lighting

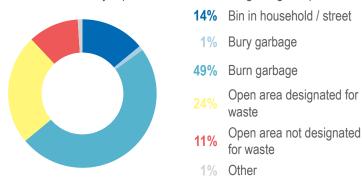
of households with communal toilets reported that there are separate toilets for men and women

77% of households with communal toilets reported their toilet is not inside the household and has locks on the doors

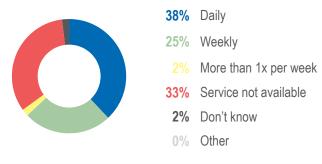
Waste disposal

5%

% of households by reported main method of garbage disposal



% of households reporting how often garbage is collected from their area of residence:



Economy

Occupation and employment

Main occupation of the household reported by households before the disaster and in the last month:¹⁴

Before Disaster		January 2019		
33%	Agricultural	0	Agricultural	31%
16%	Small business owner	2	Small business owner	16%
9%	Government job	3	Unemployed	9%

% of households reporting that the household main income was unemployment, before and after the disaster:

Before Disaster		January 2019	
3%	are unemployed		9%

of households had at least one working-age household member that is not working

Main reported barriers to finding work:¹⁴



There is an average reported loss of **10%** of household income due to the disaster¹⁵



Food Security

Reported Food Consumption Score (FCS) and reduced Coping Strategy Index (rCSI)

Food Consumption Score¹⁶ average rCSI score¹⁷

90% Acceptable

10% Borderline

3 2

- 13. Average taken from households reporting the use of communal latrines.
- 14. Single-choice question; only the top three responses are shown.
- 15. Due to the sensitivity over asking about monthly income, respondents were asked what range their monthly income fell within. The upper bound of the range was used, and current income was divided by previous income before being averaged.
- 16. FCS is a measure of food security that looks at how often foods are consumed over a 1 week period, in order to give an indication if the household is eating a sufficient amount of food. FCS was calculated using the WFP CARI methodology, by asking respondents how many days per week their household consumed different groups of food, which are then multiplied by a coefficient based on the food group, added up, and ascribed a ranking (acceptable, borderline, or poor) based on the number (WFP, Consolidated Approach for Reporting Indicators of Food Security (CARI), 2014).
- 17. rCSI is a measure of food security that looks at a set list of five coping strategies that households might be using to make food last longer in the absence of sufficient foods. It uses 5 commonly practiced coping strategies across the world. rCSI was calculated by asking respondents how many days per week their household adopted different coping strategies to make food last longer. The number of days was then multiplied by a coefficient based on the coping strategy and added up. There are no officially established thresholds, but generally, scores between 0 and 3 are considered to be good, 4 to 9 is worrisome, and scores greater than or equal to 10 are concerning (WFP VAM Unit, Afghanistan, Guidance note: calculation of household food security outcome indicators, December 2012).













Head of Household Gender: Male



% of households per main reported source of food in week prior to data collection:18

Purchased with own cash 91% Food assistance from 2% government Food assistance (charity, private 2% company)

Education

Student attendance

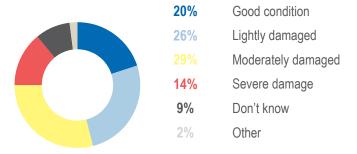
of households with children reported having school-4% aged children who were not attending school following the disaster

Among households where children were not attending school, there was an average of 1 child(ren) reported to not be attending school Top 3 reported reasons why school-aged children were not attending school by households with children not attending school:19



Condition of school facilities

% of households reported the condition of the nearby school to be the following:



Health

Immunization

of households reported having children in the household 18% that were not immunized for measles, mumps, and rhubella (MMR).

Illness and injury

of households reported that a member of the household 39% had suffered from a health issue (illness or injury) in the 30 days prior to data collection

Top 3 types of health concerns reported by households with a member who had suffered from health issues in the 30 days prior to data collection:19



Main barriers to accessing healthcare reported by households who had needed to access medical treatment the 30 days prior to data collection:19

No issues	79%	
Cost of medicine/treatment too high	8%	•
Don't know	3%	I .

Main reasons (if any) that households have had to access health services in the 30 days prior to data collection:20

0	None	41%	
2	Get regular medications	38%	
3	Treat health problems	35%	

Priority Needs 1.**2**.3

Top 3 most important priority needs as reported by households:²⁰

0	Food	78%	
2	Kitchen ware	37%	
3	Shelter support	29%	

Communication with Communities

Information Needs

% of households by the type of information that the household reported needing the most:18

Humanitarian assistance 32% Livelihoods Status of housing 21%

- 18. Single-choice question; only the top three responses are shown.
- 19. Respondents could select multiple responses, therefore results may exceed 100%; only the top three choices are shown.
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Head of Household Gender: Male



% of households by most preferred source from which they would like to receive new information:²¹

Face-to-face communication (e.g. from friends)

Television

68%

Social media 2%

Humanitarian assistance

Tents

of households reported that they had received humanitarian aid in the 30 days prior to data collection

Top 3 most common types of aid that households reported having received:²²

1 Food 90%
2 Water 17%

17%

% of households by most common reported source of aid:23

Government distribution 47%

NGO distribution 23%

Friends and family 9%

Friends and family 9%

of households reported that they were happy with the aid that they had received in the 30 days prior to data collection

Main reported reasons households were not satisfied by the aid received in the last 30 days:²³

Quantity not enough 85%

Aid received is not useful 5%

Other 4%

- 21. Single-choice question; only the top three responses are shown.
- 22. Respondents could select multiple responses; only the top three choices are shown.
- 23. Single-choice question; only the top three responses are shown.









Head of Household Gender: Female

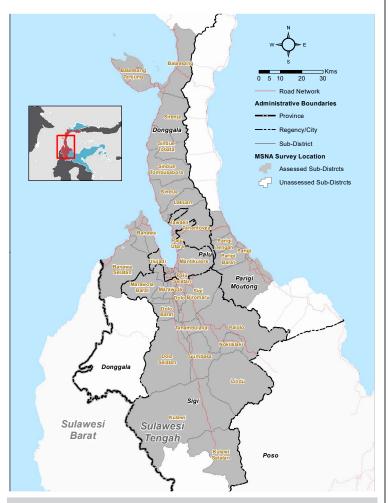


Background and methodology

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To fill this gap, a Multi-Sector Needs Assessment (MSNA) was conducted by Humanitarian Forum Indonesia (HFI) and Universitas Muhammadiyah Palu (UNISMUH) with oversight from the Ministry of Social Affairs (Kemensos) and technical support from REACH, in 38 of 62 sub-districts in the four affected regencies of Central Sulawesi Province.

A sample of 429 out of a total population of 253,926 households were surveyed across the four affected regencies between 22 January and 6 February 2019.2 Results were weighted by population and generalizable to the crisis level with 99% confidence level and 5% margin of error.



Respondent metadata³

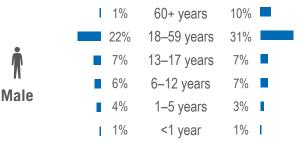
429 Total households interviewed

Average age of respondent in years

97% of respondents were female

Demographics

Household composition by gender and age



Head of Household

NA of heads of households were female

30% of heads of households were elderly

51 average age of the head of household in years

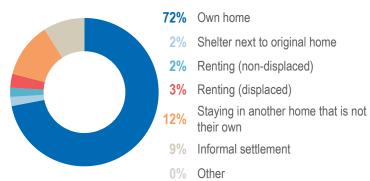
Dependency ratio4

8.0 average youth dependency ratio

0.3 average elderly dependency ratio

1.1 average age-dependency ratio

% of households by current living location:5



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- 2. The boundaries and names used on this map do not imply official endorsement or acceptance by REACH, UNICEF, HFI, or UNISMUH. Population data was extracted at desalevel from SIAK (Population Information Administration System) database, Ministry of Home Affairs (MoHA, 2017). Population of missing desas was imputed using data from the Indonesia Bureau of Statistics, 2010.
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- 5. Households were categorised based on whether they were still living on their original land, or if they were displaced by the disaster. Those living in their original home, renting (in the same location both before and after the disaster) or living in a tent/makeshift shelter next to their



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50









Head of Household Gender: Female



★ Y Displacement and Protection

Displaced population⁵

of households were no longer living in their original house 26% due to the disaster

% of households no longer living on land they own by distance from their current living location to their original house:



Nearby/on site

Within 2km

Between 2km-5km

More than 5km or Don't know

Non-displaced population⁵

of non-displaced households were hosting at least one displaced household to stay in a house that they own

There is an average of 4 IDP individuals in each displaced household hosted by a non-displaced household

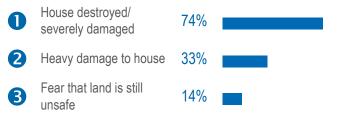
average dependency ratio of displaced household size to hosting household size for non-displaced households 8.0 hosting IDPs⁶

Movement intentions in the next 6 months

% of households by where they most want to move to within the next six months:7

Remain in the current location 88% Move into the Government Transitional Shelter 3% Don't know

Top 3 most reported reasons as to why households chose to move or to stay in their preferred living location for the next 6 months:8





of households contained at least one pregnant or 15% lactating woman

original home were living on their original land and considered to be non-displaced. Those living with friends or family, in an informal settlement, or renting after they were displaced from their homes were no longer living on their original land and had been displaced by the disaster. For households living in their original home, categorization of displacement was the same, except that those staying in tents next to their original home were considered to be displaced.

Disabilities, Elderly, Minorities

of households contained at least one member with a 5% self-reported physical or mental disability

Child Protection

of households contained at least one child that was 3% separated from their usual caregiver

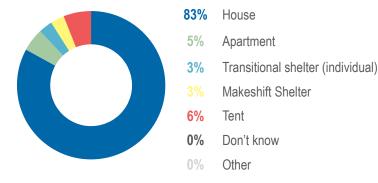
Psychosocial Support

of households reported having at least one member **52%** experiencing emotional distress from the disaster

Shelter

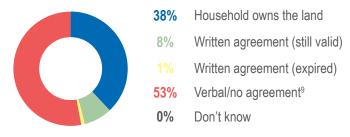
Shelter conditions

% of households by type of shelter they are currently living in at the time of data collection:



of households reported that their original shelter was either 75% destroyed or damaged by the disaster

% of households by state of tenure for house at the time of data collection:



of households reported that they were at risk of 5% being forced to leave where they were staying at the time of data collection

- 6. Dependency ratio is calculated by dividing the number of IDP individuals being hosted by the total size of the host household. The number shows the relative burden that hosting households have to support IDP households.
- 7. Single-choice question; only the top three responses are shown.
- 8. Respondents could select multiple responses; therefore results may exceed 100%; only the top three choices are shown.
- 9. In many households in Central Sulawesi, there is a cultural practice in which a specific household owns many plots of land, and other households are permitted to live on it without any formal agreement.













Head of Household Gender: Female



Top 3 reported reasons households were at risk of being forced to leave their shelters at the time of data collection:10



of households reported having lost the ownership 6% documents for their original shelter before the disaster

Preferred Shelter Assistance

of households reported that they would prefer to 77% rebuild or repair their original home in the next 6 months

Top 3 preferred types of assistance that households wanted to receive in order to rebuild/repair their homes in the 6 months after data collection:11

0	Assistance to build/repair shelter	62%	
2	Building materials (concrete, wood)	45%	
3	None	14%	

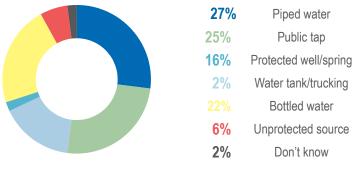
Top 3 most needed Non-Food Items (NFIs):11



Water, Sanitation and Hygiene

Access to Water

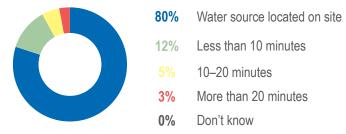
% of households acquired most of their drinking water from the following sources:



of households reported drinking water that had been 95% treated and was safe to drink

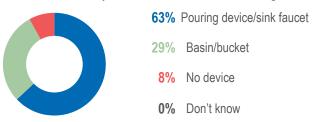
of households reported having enough water to 88% meet their total needs for drinking, cooking, bathing, and washing

% of households by reported amount of time it takes to walk to main water source, fetch water, and return (including queuing at the water source):



Hygiene practices

% of households by location used for hand washing:

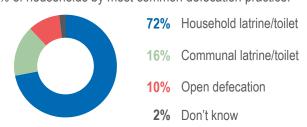


90% of households have water available for hand washing

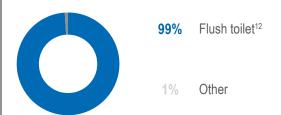
62% of households have soap available for hand washing

Sanitation conditions

% of households by most common defecation practice:



% of households using a household or communal latrine/toilet, by type of latrine/toilet:



- 10. Respondents could select multiple responses; therefore results may exceed 100%; only the top three choices are shown.
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- 12. "Flush toilets" includes both toilets where a lever automatically makes the toilet flush and the practice of dumping water town the toilet to cause it to flush manually.













Head of Household Gender: Female



January 2019

There is an average of **9** households reported to be sharing each communal latrine¹³

Communal latrine conditions

76% of households with communal latrines reported their toilet had adequate lighting

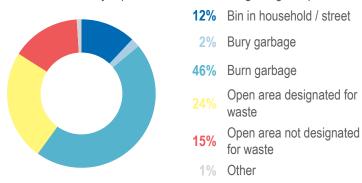
of households with communal toilets reported that there are separate toilets for men and women

69% of households with communal toilets reported their toilet is not inside the household and has locks on the doors

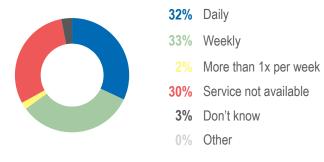
Waste disposal

2%

% of households by reported main method of garbage disposal



% of households reporting how often garbage is collected from their area of residence:



Economy

Occupation and employment

Main occupation of the household reported by households before the disaster and in the last month:¹⁴

Before Disaster		January 2019		
29%	Small business owner	0	Small business owner	27%
20%	Agricultural	2	Agricultural	17%
10%	Unemployed	3	Unemployed	17%

% of households reporting that the household main income was unemployment, before and after the disaster:

Bololo Blodotol		candary 2010
10%	are unemployed	17%

of households had at least one working-age household member that is not working

Main reported barriers to finding work:¹⁴

Refore Disaster

The recent disaster destroyed previous business/job opportunities	43%	
Available jobs are too far away	16%	
Only low-skilled, socially degrading, dangerous, or low-paid jobs are available	10%	•

There is an average reported loss of **10%** of household income due to the disaster¹⁵



Food Security

Reported Food Consumption Score (FCS) and reduced Coping Strategy Index (rCSI)

Food Consumption Score¹⁶ average rCSI score¹⁷

88% Acceptable

10% Borderline

4.2

- 13. Average taken from households reporting the use of communal latrines.
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Head of Household Gender: Female



% of households per main reported source of food in week prior to data collection:18

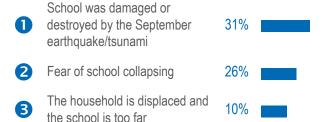
Purchased with own cash 88% Gift from family or friends) Food assistance (government) 4%

Education

Student attendance

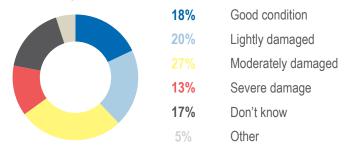
of households with children reported having school-7% aged children who were not attending school following the disaster

Among households where children were not attending school, there was an average of 1 child(ren) reported to not be attending school Top 3 reported reasons why school-aged children were not attending school by households with children not attending school:19



Condition of school facilities

% of households reported the condition of the nearby school to be the following:



Health

Immunization

of households reported having children in the household 19% that were not immunized for measles, mumps, and rhubella (MMR).

Illness and injury

of households reported that a member of the household 48% had suffered from a health issue (illness or injury) in the 30 days prior to data collection

Top 3 types of health concerns reported by households with a member who had suffered from health issues in the 30 days prior to data collection:19



Main barriers to accessing healthcare reported by households who had needed to access medical treatment the 30 days prior to data collection:19

No issues	78%	
Cost of medicine/treatment too high	10%	•
No medicine/treatment available	4%	1

Main reasons (if any) that households have had to access health services in the 30 days prior to data collection:20

0	Get regular medications	40%	
2	None	39%	
3	Treat health problems	33%	

Priority Needs 1.**2**.3

Top 3 most important priority needs as reported by households:²⁰

0	Food	83%	
2	Kitchen ware	36%	
3	Shelter support	35%	

Communication with Communities

Information Needs

% of households by the type of information that the household reported needing the most:18

Humanitarian assistance 36% Status of housing 26% Livelihoods 19%

- 18. Single-choice question; only the top three responses are shown.
- 19. Respondents could select multiple responses, therefore results may exceed 100%; only the top three choices are shown.
- 20. Respondents could select up to three responses; therefore results may exceed 100%; only the top three choices are shown.













Head of Household Gender: Female



% of households by most preferred source from which they would like to receive new information:²¹

Face-to-face communication (e.g. from friends)

Television

75%

Social media 2%

Humanitarian assistance

of households reported that they had received humanitarian aid in the 30 days prior to data collection

Top 3 most common types of aid that households reported having received:²²

Food
 Tents
 Tarpaulin
 Tarpaulin

% of households by most common reported source of aid:23

Government distribution 57%

NGO distribution 12%

Religious Organization 11%

of households reported that they were happy with the aid that they had received in the 30 days prior to data collection

Main reported reasons households were not satisfied by the aid received in the last 30 days:²³

Quantity not enough 89%

Delays in aid delivery 8%

Aid received is not useful

- 21. Single-choice question; only the top three responses are shown.
- 22. Respondents could select multiple responses; only the top three choices are shown.
- 23. Single-choice question; only the top three responses are shown.







