

Research Terms of Reference

CCCM Detailed Site Assessment

SOM1909

Somalia

December 2019

Version 1

REACH Informing
more effective
humanitarian action

1. Executive Summary

| | | | | | |
|---|--|--|--|------------|--|
| Country of intervention | Somalia | | | | |
| Type of Emergency | <input checked="" type="checkbox"/> | Natural disaster | <input checked="" type="checkbox"/> | Conflict | |
| Type of Crisis | <input type="checkbox"/> | Sudden onset | <input type="checkbox"/> | Slow onset | <input checked="" type="checkbox"/> Protracted |
| Mandating Body/ Agency | Office for the Coordination of Humanitarian Affairs (OCHA) | | | | |
| Project Code | 27AJP | | | | |
| Overall Research Timeframe | 01/11/2019 to 31/03/2020 | | | | |
| Research Timeframe | 1. Start collect data: 17/11/2019 | | 5. Preliminary presentation: 23/02/2020 | | |
| | 2. Data collected: 19/12/2019 | | 6. Outputs sent for validation: 27/02/2020 | | |
| | 3. Data analysed: 23/01/2020 | | 7. Outputs published: 12/03/2020 | | |
| | 4. Data sent for validation: 06/02/2020 | | 8. Final presentation: 15/03/2020 | | |
| Number of assessments | <input checked="" type="checkbox"/> | Single assessment (one cycle) | | | |
| | <input type="checkbox"/> | Multi assessment (more than one cycle) | | | |
| Humanitarian milestones | Milestone | | Deadline | | |
| | <input checked="" type="checkbox"/> | Donor plan/strategy | 30/04/2020 | | |
| | <input checked="" type="checkbox"/> | Inter-cluster plan/strategy | 30/04/2020 | | |
| | <input checked="" type="checkbox"/> | Cluster plan/strategy | 30/04/2020 | | |
| | <input type="checkbox"/> | NGO platform plan/strategy | _/_/_/_/_ | | |
| | <input type="checkbox"/> | Other (Specify): | _/_/_/_/_ | | |
| Audience Type & Dissemination | Audience type | | Dissemination | | |
| | <input checked="" type="checkbox"/> Strategic | | <input type="checkbox"/> General Product Mailing (e.g. mail to NGO consortium; HCT participants; Donors) | | |
| | <input checked="" type="checkbox"/> Programmatic | | <input checked="" type="checkbox"/> Cluster Mailing (Education, Shelter and WASH) and presentation of findings at next cluster meeting | | |
| | <input checked="" type="checkbox"/> Operational | | <input checked="" type="checkbox"/> Presentation of findings (e.g. at HCT meeting; Cluster meeting) | | |
| | <input type="checkbox"/> [Other, Specify] | | <input checked="" type="checkbox"/> Website Dissemination (Relief Web & REACH Resource Centre) | | |
| | | | <input type="checkbox"/> [Other, Specify] | | |
| Detailed dissemination plan required | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No | |

| | | | | | | |
|--|---|--|-------------------------------------|--|--|--|
| General Objective | To inform stronger, more effective, evidence-based multi-sectorial interventions in Internally Displaced Person (IDP) settlements in urban areas across Somalia | | | | | |
| Specific Objective(s) | <ul style="list-style-type: none"> To collect multi-sector information on the availability of and access to basic services in IDP settlements in urban areas To identify displacement trends of IDPs in assessed urban areas | | | | | |
| Research Questions | <ul style="list-style-type: none"> Where are the locations of IDP settlements in the assessed urban areas? What is the estimated size of the IDP population in assessed urban areas? What are the displacement trends of IDPs in assessed urban areas? To what extent are basic services available and accessible to IDP settlements in assessed urban areas? | | | | | |
| Geographic Coverage | All IDP settlements (informal and planned) ¹ in urban / semi-urban ² areas across 61 districts in Somalia (See attached list of targeted areas) | | | | | |
| Secondary data sources | Interational Organization for Migration – Displacement Tracking Matrix (IOM – DTM), Protection & Return Monitoring Network (PRMN), Norwegian Refugee Council – Risk Eviction Mapping (NRC - REM), REACH IDP Settlement Assessments, CCCM Partner Organization Population Estimates | | | | | |
| Population(s) | <input checked="" type="checkbox"/> | IDPs in camp | <input checked="" type="checkbox"/> | IDPs in informal sites | | |
| | <input type="checkbox"/> | IDPs in host communities | <input type="checkbox"/> | IDPs [Other, Specify] | | |
| | <input type="checkbox"/> | Refugees in camp | <input type="checkbox"/> | Refugees in informal sites | | |
| | <input type="checkbox"/> | Refugees in host communities | <input type="checkbox"/> | Refugees [Other, Specify] | | |
| | <input type="checkbox"/> | Host communities | <input type="checkbox"/> | [Other, Specify] | | |
| Stratification | <input checked="" type="checkbox"/> | Geographical #: 61 Population size per strata is known? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> | Group #: ____ Population size per strata is known? <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> | [Other Specify] #: ____ Population size per strata is known? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Data collection tool(s) | <input checked="" type="checkbox"/> | Structured (Quantitative) | | <input type="checkbox"/> | Semi-structured (Qualitative) | |
| | | Sampling method | | | Data collection method | |
| Structured data collection tool # 1 | <input checked="" type="checkbox"/> | Purposive | | <input checked="" type="checkbox"/> | Key informant interview (Target #): 4 per site | |
| | <input type="checkbox"/> | Probability / Simple random | | <input type="checkbox"/> | Group discussion (Target #): _____ | |
| | <input type="checkbox"/> | Probability / Stratified simple random | | <input type="checkbox"/> | Household interview (Target #): _____ | |
| | <input type="checkbox"/> | Probability / Cluster sampling | | <input type="checkbox"/> | Individual interview (Target #): _____ | |
| | <input type="checkbox"/> | Probability / Stratified cluster sampling | | <input checked="" type="checkbox"/> | Direct observations (Target #): 2 per site | |
| | <input type="checkbox"/> | [Other, Specify] | | <input type="checkbox"/> | [Other, Specify] (Target #): _____ | |
| Data management platform(s) | <input type="checkbox"/> | IMPACT | | <input checked="" type="checkbox"/> | UNHCR | |
| | <input type="checkbox"/> | [Other, Specify] | | | | |
| Expected output type(s) | <input type="checkbox"/> | Situation overview #: ____ | <input type="checkbox"/> | Report #: ____ | <input type="checkbox"/> | Profile #: ____ |
| | <input checked="" type="checkbox"/> | Presentation (Preliminary findings) #: TBD | <input checked="" type="checkbox"/> | Presentation (Final) #: TBD | <input checked="" type="checkbox"/> | Factsheet #: 62 |
| | <input type="checkbox"/> | Interactive dashboard #: ____ | <input type="checkbox"/> | Webmap #: ____ | <input checked="" type="checkbox"/> | Map #: 62 |
| | <input type="checkbox"/> | [Other, Specify] #: ____ | | | | |

¹ An informal settlement is defined as a site where a displaced population has settled without purposeful site planning and prior arrangement with relevant actors. A planned settlement is defined as sites purposefully built where infrastructure and basic services are provided for displaced populations.

² Semi-urban areas are defined as areas between consolidated urban and rural regions. OCHA data is available to verify whether an IDP settlement lies within an area designated as rural, urban or semi-urban.

| | | |
|-------------------|-------------------------------------|--|
| Access | X | Public (available on REACH resource center and other humanitarian platforms) |
| | □ | Restricted (bilateral dissemination only upon agreed dissemination list, no publication on REACH or other platforms) |
| Visibility | REACH | |
| | Donor: ECHO | |
| | Coordination Framework: CCCM | |
| | Partners: | |

2. Rationale

2.1. Rationale

- **Context:** The humanitarian crisis in Somalia is among the most complex and long-standing in the world. Armed conflict and widespread violence, as well as recurrent climatic shocks, perpetuate high levels of humanitarian needs and protection concerns. While above-average rains in the first part of 2018 improved food security, the humanitarian situation remains fragile and prone to future climatic shocks. In total, an estimated 4.2 million people, one-third of the total population in Somalia, require humanitarian assistance and protection.³

The 6th round of the Displacement Tracking Matrix (DTM) estimated that 2 million people in the 58 assessed districts in Somalia have been displaced, a majority of which are children (under 18 years) and women. In search for food supplies, income sources and humanitarian assistance, displaced populations have been moving towards urban areas where new IDP settlements are established with additional strain being placed on existing IDP settlements and service provision. Moreover, the IDP settlements in Somalia are mostly temporary, adding a layer of complexity for service provision. In contrast to other countries where IDP settlements are in designated locations for long periods of time, most of the IDP settlements in Somalia are spontaneous and do not last. This is due to different factors acting together such as lack of written tenure agreements, forced evictions, and disputes over land. An IDP settlement identified in a certain area may not be located at the same area within a few months. It could have been moved further, completely disappeared or have been divided into different locations. On August 2018, close to 200,000 forced evictions were registered by the Norwegian Refugee Council (NRC).

In May 2017, the CCCM cluster was activated, under the co-leadership of UNHCR and IOM, partly as a result of the lack of coordination amongst humanitarian actors and the need for an integrated multi-sectorial response in regards to IDP settlements in Somalia. The purpose of the CCCM has also been to raise the quality of interventions and monitoring of humanitarian services in communal settings.

- **Key information gaps:** The previous round of the Detailed Site Assessment (DSA) took place from September 2018 to January 2019 assessing a total of 1,603 IDP settlements in 56 districts across Somalia with the objective of providing up-to-date IDP population estimates and an understanding of humanitarian needs of these IDP settlements. As the causes of displacement, natural disaster and conflict, still persist, the number of IDPs continue to grow. Increased migration towards urban areas has resulted in high numbers of forced evictions. This continued displacement has resulted in increasingly fluctuating population estimates at informal and planned settlements complicating the ability of the humanitarian response to provide basic services to address the needs of IDP populations. The next round of the DSA aims to use an updated joint methodology and tool to further improve on the information provided by the DSA on the location, estimated size of population, and humanitarian needs of IDPs residing in IDP settlements (informal and planned) in urban / semi-urban areas.
- **Programme purpose and institutional framework:** The CCCM Cluster is to collect multi cluster settlement level information to inform the overall humanitarian response in IDP settlements and improve the living conditions of residents residing in these IDP settlements.
 - REACH is providing Information Management (IM) support and capacity building for the CCCM cluster while training partners on data collection methodologies to ensure coherent approaches to cluster assessments.
 - Quarterly site monitoring undertaken by the CCCM cluster will include the DSA questionnaire to enhance collaboration and avoid duplication of efforts.

³ From the 2019 Somalia Humanitarian Needs Overview

- **REACH's involvement:**
 - Produce training materials for enumerators and Training of Trainers (ToT) for partner staff
 - Develop tools for KII settlement assessments
 - Conduct the data collection in areas of access for REACH Field Officers (FOs)
 - Provide clean data of all sites
 - Analyse data and produce factsheets at the district level and national level

3. Methodology

3.1. Methodology overview

Primary data collection will employ a KI methodology with key informant interviews (KIIs) conducted by REACH enumerators in locations directly accessible by REACH Field Officers (FOs) and by CCCM partner organizations. Targeted urban areas within districts will be determined based on secondary data review on previous assessments conducted on IDP populations.⁴ Following identification of target urban areas, REACH will locate IDP settlements through contacting the “lowest level of governance”⁵ in each area prior to the start of the data collection.

For the purpose of this assessment, an Internally Displaced Person (IDP) is defined as an individual who has been forced to leave their home or place of habitual residence, in particular as a result of or in order to avoid the effects of armed conflict, situations of generalized violence, violations of human rights, or natural or man-made shocks, and who have not crossed an international border. An IDP settlement is defined as a group of shelters located in urban and rural areas that can be either dispersed or grouped where IDPs reside.

3.2. Population of Interest

The populations of interest include IDPs residing in informal and planned settlements in 61 districts across Somalia.⁶ REACH will cover more areas if support is requested by partners. Data will be collected at the settlement level.

3.3. Secondary Data Review

Secondary data review will be conducted in order to inform assessment methodology including area identification, questionnaire design and to verify/triangulate primary data and findings. Sources include Shelter Infrastructure Mapping, IOM-DTM and ETT data, PRMN⁷, and other REACH IDP settlement data.

- **Area Identification:** REACH will use data readily available to target areas with IDP settlements. Target areas will be selected based on accessibility and will consist of districts where REACH IDP Settlement Assessments, PRMN, IOM-DTM and other data have identified the presence of IDP settlements. Additional districts with newly arrived IDP settlements or districts that were not covered by previous rounds of DSA will be included based on recommendations from the CCCM cluster.
- **Questionnaire Design:** Indicators for the DSA will be developed to be aligned with previous assessments (DTM, SIRNA, ETT, PRMN, Shelter Infrastructure mapping) to produce one agreed on set of indicators and questions for the DSA. CCCM Cluster members and ICCG members will be invited to input and comment on the questionnaire.
- **Triangulation:** Primary data collected by REACH enumerators will be triangulated with available secondary data sources including historical and current data from other REACH assessments in Somalia such as the JMCNA. Population and displacement figures will also be cross-checked and investigated with comparable data from OCHA reports on displacements as well as available data from other humanitarian bodies.

3.4. Primary Data Collection

REACH Field Officers (FOs), field team leaders, and enumerators will conduct primary data collection with oversight from the REACH Field Coordinator (FC) and REACH Assessment Officers (AOs). In targeted areas where CCCM partner

⁴ Previous REACH DSA, JMCNA and CCCM Partner Organization Population Estimates

⁵ District Office, Mayor's Office, etc.

⁶ See annexed list of targeted areas

⁷ International Organization for Migration – Displacement Tracking Matrix (IOM – DTM) and Event Tracking Tool (ETT), Protection & Return Monitoring Network (PRMN)

organizations have a presence, partners will conduct data collection. In targeted areas where partners either have no presence or cannot contribute enough enumerators, REACH will hire enumerators and conduct data collection.

Primary data collection will be carried out through face-to-face Key Informant Interviews (KIIs) and direct observation with enumerators travelling to IDP settlements. To locate these IDP settlements, FOs will coordinate field team leaders and enumerators to go to the District Commissioner Office to gain information on the location of IDP settlements. Following that, field team leaders and enumerators will go to the Mayor's Office/District Office and onwards until they reach the "lowest level of governance" that can provide information on the locations of IDP settlements. On gaining information on the locations of IDP settlements, enumerators will go to these locations and source Key Informants (KIs) for an interview.

- **Key Informant Interviews (KIIs):** Enumerators will conduct KIIs with oversight from FOs or relevant partner organizations. Four KIIs will be conducted in total using ODK mobile data collection for each IDP settlement: two face-to-face, two remotely via secure telephone. For the first KII, enumerators will request to speak with a Community Leader / Camp Manager / Gate Keeper and proceed to conduct an interview. Preference will be placed on the enumerators to speak with a Community Leader or Camp Manager. If a KI of this designation is not available, enumerators will request to speak with whoever is most knowledgeable about the situation of the IDP settlement to conduct an interview. From the first KI, a referral for a women's representative and the contact information for a third additional KI will be requested. For the second KII, enumerators will request to speak with a women's representative, previously sourced from the first KII, and proceed to conduct an interview. This will ensure that the female perspective of the IDP settlement is captured. From the second KI, the contact information for a fourth additional KI will be requested. For the third and fourth KII, to be conducted post-data collection in the field, the additional two KIs, one sourced from the first KI and one sourced from the second KI, will be contacted remotely via secure telephone by FOs. FOs will ask these additional KIs questions in the survey specifically pertaining to population estimates for verification purposes.
- **Direct Observations:** Alongside KIIs, enumerators will collect data via direct observation⁸ of IDP settlements using ODK mobile data collection. Data collected from direct observations will be used primarily to verify responses from the face-to-face KIIs. Direct observations will be conducted following face-to-face KIIs.
- **Sampling:** Purposive sampling is used to select four KIs (where possible) for each and every IDP settlement; 1) Community Leader / Camp Manager / Gate Keeper; 2) Women's Representative 3) & 4) individuals highly knowledgeable about the situation of the IDP settlement and referred to by KI 1 & 2. The Community Leader / Camp Manager / Gate Keeper KIs are selected based on their role in the community as a figure of authority including community leaders, elders, and religious leaders. Women's representative KIs are selected on the basis of their role as a community representative of women. In cases where multiple KIs are available, priority is given to the Community Leader and / or Camp Manager, followed by the Gate Keeper, and followed by individuals working in a committee or who have been in the settlement for the longest. KIs have to be over the age of 18 and consent to being regularly contacted and interviewed.
- **Debriefing of Enumerators:** FOs and AOs will conduct daily data checks of survey data received. Information on any discrepancies will be shared with FOs on a daily basis to relay feedback to enumerators to immediately mitigate errors or for clarification purposes.

3.5. Data Processing & Analysis

Enumerators will conduct data collection from key informant interviews (KIIs) and direct observation using the KoBo Collect App on smartphones. Following data collection, AOs and FOs will conduct and oversee data entry, checks, cleaning, and verification to produce one final cleaned dataset.

- **Data Entry:** Following data collection, enumerators will upload data collected to the UNHCR KoBo server. FOs will oversee enumerators to ensure that data entry is completed at the end of every day of data collection.
- **Data Checks and Cleaning:** Following data entry, FOs will receive de-identified raw datasets from the Senior Database Officer to conduct data checks and cleaning on a daily basis. FOs will check for any errors or discrepancies within the

⁸ Presence of damaged houses, public lighting or burning waste

dataset and address these issues as appropriate⁹. Corrections are cleaned by FOs with follow-up and cleaning logs maintained in password protected files alongside all raw data and cleaning sheets. Automated checks and cleaning processes will be used where possible to ensure consistency and timely data and allow for rigorous cleaning on a daily basis. AOs will oversee FOs to ensure that data checks and cleaning are completed in a timely manner.

- **Verification:** Following data checks and cleaning, FOs will follow up with any potential issues in the data collected from IDP settlements in the remote KIIs. Data collected from the remote KIIs will be used by AOs to verify issues found in the data collected from the face-to-face KIIs.
- **Final Cleaned Dataset:** Following completion of the data entry, checks, cleaning, and verification processes with no follow-up remaining, AOs will check through change logs and final datasets for any inconsistencies and finalize a cleaned version of the dataset.

Following production of a final cleaned dataset, AOs will conduct data analysis and triangulation. Data will be aggregated to obtain findings on IDP settlements at the district level.

- **KI Responses:**
 - **Continuous Values:** In dealing with indicators with continuous values, the following steps will take place:
 - Calculate the mean value of the estimates reported in the first and second face-to-face KIIs.
 - Calculate a range with the lower threshold being the mean value minus 20% of the mean and the higher threshold being the mean value plus 20% of the mean.
 - If both estimates reported in the first and second face-to-face KIIs fall within the calculated range, the final reported value for this settlement will be the mean value of these estimates.
 - If either of the estimated values reported in the first and second face-to-face KIIs fall outside of this range, follow-up questions for these indicators will be asked in the remote KIIs to verify these estimates. The final reported value for these indicators will be the mean value of estimates collected from all KIIs, face-to-face and remote.
 - **Categorical Values (Select One):** In dealing with indicators with categorical values for select one questions, the following steps will take place:
 - If reported responses in the first and second face-to-face KIIs are the same, the final reported value for this settlement will be the response reported in both face-to-face KIIs.
 - If reported responses in the first and second face-to-face KIIs are different, follow-up questions for these indicators will be asked in the remote KIIs. The final reported value for these indicators will be the response reported in the majority of all KIIs, face-to-face and remote.
 - If there is still no consensus on the reported responses, the response reported by the Community Leader will be the deciding factor.
 - **Categorical Values (Select Multiple):** In dealing with indicators with categorical values for select multiple questions, the final reported response will be the union of the responses reported in both the first and second face-to-face KIIs.
- **Data Analysis (Population Estimates):** From the two face-to-face and two remote KIIs, a total of twelve data points will be collected for indicators relating to population estimates; four data points for estimates on Number of Shelters, four data points for estimates on Number of Households, and four data points for estimates on Number of Individuals. From these data points, final estimates will be calculated for each of these indicators.

Below is a description of different scenarios regarding the estimates collected from the face-to-face and remote KIIs and the resulting method of calculating the final estimate for each indicator:

- **Exact Match:** If all four estimates are an exact match, the value of the exact match will be the final determined value for the indicator. In the case that all four estimates are not an exact match, move on to the next steps.
- **Within One Standard Deviation:** Calculate which values fall within one standard deviation of each other.

⁹ See annex for Data Cleaning SOPs

- **All four estimates within one standard deviation:** The average of all four estimates will be the final determined value for the indicator.
- **Three estimates within one standard deviation:** The average of the three estimates within one standard deviation of each other will be the final determined value for the indicator.
- **Two estimates within one standard deviation of each other with the other two estimates spread out:** The average of the two estimates within one standard deviation of each other will be the final determined value for the indicator.
- **Two estimates within one standard deviation of each other with the other two estimates within one standard deviation of each other:** The averages of both pairs of estimates will be calculated. Comparing with population estimates from secondary data, the average closest to the secondary data estimates will be the final determined value for the indicator.
- **None of the estimates within one standard deviation of each other:** In the case that none of the estimates are within one standard deviation of each other, move on to the next steps.
- **Additional Verification and Triangulation**
 - **Estimates Spread Out:** In the case that estimates are spread out, the following are actions to be implemented to investigate causes for discrepancies in the estimates:
 - **Reaching out to Key Informants to verify population estimates:** The four key informants will be called via remote phone call and asked to provide population estimates again to verify the initial values they provided.
 - **Contacting a New Key Informant for additional population estimates:** Through calling the Community Leader Key Informant, an additional key informant will be sourced and asked to provide population estimates to verify the initial values provided.
 - **Check which values fall within One Standard Deviation of Secondary Data:** Using secondary data on population estimates, all four values will be checked for whether or not they fall within one standard deviation of the estimates provided by the secondary data.
- **Data Analysis (Severity Scores):** For each cluster¹⁰, a severity ranking will be developed with each IDP settlement ranked based on indicators on severity of needs. Based on the severity rankings of IDP settlements in each district, a district level ranking will be calculated for each cluster. Following that, based on the severity rankings of districts, a national level ranking will be calculated for each cluster. The indicators and method for calculating severity scores for each cluster are determined in coordination with CCCM partners.

Below is the process of calculating the final severity score for each cluster at the settlement-, district-, and national level from the responses collected from the face-to-face and remote key informant interviews:

- **Settlement-Level**
 - **Indicator Scores:** For each cluster, a set of indicators and a method of scoring these indicators has been developed to evaluate severity of need. Based on the responses from the key informant interviews, each settlement is granted a score for all indicators of all clusters on a scale of 1 to 5¹¹.
 - **Cluster Scores:** For each cluster, the median score of all indicators within that cluster is calculated to determine the final score and Severity Class for each settlement.
- **District-Level**
 - **Aggregating Settlements by Severity Class:** The number of settlements falling into each Severity Class for each cluster will be tallied up at the District Level.
 - **Rule of 20%:** At the district level, the final Severity Class for each cluster will be the Severity Class in which at least 20% of the population in the district fall into the Severity Class or more.
- **National-Level**

¹⁰ Shelter & NFI, WASH, Health, Nutrition, Education, Food Security, and Protection

¹¹ See Annex for Description and Scoring of Indicators

- **Aggregating Settlements by Severity Class:** The number of settlements falling into each Severity Class for each cluster will be tallied up at the National Level.
- **Rule of 20%:** At the national level, the final Severity Class for each cluster will be the Severity Class in which at least 20% of the total population fall into the Severity Class or more.
- **Triangulation:** Following data analysis, AOs will cross-check population estimates with comparable data from other humanitarian bodies and investigate any discrepancies. Data sources will include OCHA reports, IOM-DTM, PRMN, previous REACH IDP Settlement Assessments and other relevant actors. The steps to be taken are as follows:
 - **Compilation of Population Estimates from Secondary Data Review:** Population estimates from the secondary data review will be compiled into one dataset at the District Level (Village Level where possible). For each source providing population estimates, a short summary will be provided detailing the type of source (government agency, NGO), scope of data collected (Regions, Districts and Populations covered), the level of population estimates (shelters, households, individuals), definition of IDPs (including or not including IDPs within host communities), and the period of data collection.
 - **Aggregated Estimates from KIIs:** Population estimates on the Number of Shelters, Number of Households, and Number of Individuals for each IDP settlement from the KIIs will be aggregated to the District Level. For each indicator, these estimates will include the Community Leader Estimate, the Average Estimate Minimum Estimate, and the Maximum Estimate. These estimates will be included in the Compilation of Population Estimates.
 - **Most Consistent Range:** Using all population estimates available for a district, a range from minimum estimate to maximum estimate will be determined for each of the indicators, Number of Shelters, Number of Households, and Number of Individuals through review of population estimates available. Through process of elimination, the most reliable minimum and maximum estimates for Number of Shelters, Number of Households, and Number of Individuals will be used to determine the most consistent range.
 - **Most Consistent Estimate:** Using all population estimates falling within the most consistent range, estimates will be reviewed based on their similarity to other estimates and the reliability of the source. Through process of elimination, the most consistent estimate for Number of Shelters, Number of Households, and Number of Individuals will be determined. These estimates will be presented to and discussed with the CCCM cluster to determine final population estimates.

4. Roles and responsibilities

Table 3: Description of roles and responsibilities

| Task Description | Responsible | Accountable | Consulted | Informed |
|--------------------------------------|---------------------------|---|--|--|
| Research design | Assessment Officer | Senior Assessment Officer, Country Director | CCCM Cluster Coordinator, Impact HQ Research Design Unit | Cluster Coordinators, OCHA, Impact HQ Research Design Unit |
| Supervising data collection | REACH Field Officers | REACH Field Coordinator | Assessment Officer | Senior Assessment Officer |
| Data processing (checking, cleaning) | Assessment Officer | Senior Assessment Officer | GIS Specialist | Impact HQ Data Unit |
| Data analysis | Assessment Officer | Senior Assessment Officer | Country Director, Impact HQ Data Unit | CCCM Cluster Coordinator, Cluster Coordinators, Impact HQ Data Unit |
| Output production | Assessment Officer | Senior Assessment Officer | Country Director, Impact HQ Reporting Unit | CCCM Cluster Coordinator, Cluster Coordinators, Impact HQ Reporting Unit |
| Dissemination | Assessment Officer | Senior Assessment Officer | Country Director, CCCM Cluster Coordinator | Country Director, CCCM Cluster Coordinator, Cluster Coordinators |
| Monitoring & Evaluation | Assessment Officer | Senior Assessment Officer | Impact HQ | Country Director |
| Lessons learned | Senior Assessment Officer | Country Director | All staff involved | Country Director, Cluster Coordinators, Impact HQ |

Responsible: the person(s) who executes the task

Accountable: the person who validates the completion of the task and is accountable of the final output or milestone

Consulted: the person(s) who must be consulted when the task is implemented

Informed: the person(s) who need to be informed when the task is completed

5. Data Analysis Plan

| Research questions | IN # | Data collection method | Indicator / Variable | Questionnaire Question | Questionnaire Responses | Data collection level |
|---|------|------------------------|------------------------------------|--|---|-----------------------|
| Where are the locations of IDP settlements in the assessed urban areas? | A.01 | KI Interview | Localisation - Region | In which region is the assessment being conducted? | Region List | Settlement |
| | A.02 | KI Interview | Localisation - District | In which district is the assessment being conducted? | District List | Settlement |
| | A.03 | KI Interview | Localisation – Village | In which village or neighbourhood is the assessment being conducted? | Village List | Settlement |
| | A.04 | KI Interview | Localisation – Village | If the village is not listed, please give the nearest. | Village List | Settlement |
| | A.05 | KI Interview | Localisation – Village | What is the name of the village or neighbourhood? | Enter text | Settlement |
| | A.06 | KI Interview | Localisation – IDP Settlement Name | What is the local name of the site that is being assessed? | Enter text | Settlement |
| What is the estimated size of the IDP population in assessed urban areas? | B.01 | KI Interview | CCCM - Site Duration | How many months has this site been established for? | Enter integer | Settlement |
| | B.02 | KI Interview | CCCM - Population Estimates | How many shelters are present in this site? | Enter integer | Settlement |
| | B.03 | KI Interview | CCCM - Population Estimates | How many households are present in this site? By household, people living together sharing common resources. | Enter integer | Settlement |
| | B.04 | KI Interview | CCCM - Population Estimates | How many individuals are present in this site? | Enter integer | Settlement |
| | B.05 | KI Interview | CCCM - Site Capacity | If [20% of calculated number of individuals in the site] individuals were to arrive tomorrow, would this site be able to accommodate them? | Yes No | Settlement |
| What are the displacement trends of IDPs in assessed urban areas? | B.06 | KI Interview | CCCM - Displacement | In the past 3 months, how many families have arrived to this site? | Enter integer | Settlement |
| | B.07 | KI Interview | CCCM - Displacement | When did the majority of IDPs arrive to this site? | Less than 1 month ago 1 to 3 months ago 3 to 6 months ago More than 6 months ago | Settlement |

| | | | | | | |
|--|-------------|--------------|---|---|--|------------|
| To what extent are basic services available and accessible to IDP settlements in assessed urban areas? | B.08 | KI Interview | CCCM - Displacement | In the past 3 months, how many families have departed from this site? | Enter integer | Settlement |
| | B.09 | KI Interview | CCCM - Displacement | When did the majority of IDPs depart from this site? | Less than 1 month ago 1 to 3 months ago 3 to 6 months ago More than 6 months ago | Settlement |
| | B.10 | KI Interview | CCCM - Displacement | What is the first most common region of origin of IDPs? | Region List | Settlement |
| | B.11 | KI Interview | CCCM - Displacement | What is the second most common region of origin for IDPs? | Region List | Settlement |
| | B.12 | KI Interview | CCCM - Site Management | Is there an agency responsible for managing this site? | Local authority UN agency Local NGO International NGO Residents themselves Community Leader Gatekeeper Local community No management Other | Settlement |
| | B.13 | KI Interview | CCCM - Site Management | If other, please specify: | Enter text | Settlement |
| | B.14 | KI Interview | CCCM - Participation and Representation | Are there any of the following committees established at the site? | Residents' committee Camp management committee Women's committee Elder meeting WASH committee Health committee Education committee Children's committee No committees Other | Settlement |
| | B.15 | KI Interview | CCCM - Participation and Representation | If other, please specify: | Enter text | Settlement |
| | B.16 | KI Interview | CCCM – Women's Representation | Are women present in committees established at the site? | Yes No | Settlement |
| | C.01 | KI Interview | Risk of Evictions - Land Ownership Type | Who owns the land on which the site is established? | Private owner Local authority / government | Settlement |

| | | | | | |
|-------------|--------------|--|---|--|------------|
| | | | | Federal government Mixed landownership No owner Do not know Other | |
| C.02 | KI Interview | Risk of Evictions - Land Ownership Type | If other, please specify: | Enter text | Settlement |
| C.03 | KI Interview | Risk of Evictions - Tenure Agreement | Is there an existing land tenure agreement between residents' and the land owner of the site? | Yes No | Settlement |
| C.04 | KI Interview | Risk of Evictions - Tenure Agreement | Is the agreement in written or oral form? | Written Oral | Settlement |
| C.05 | KI Interview | Risk of Evictions - Tenure Agreement | Who holds the land tenure agreement for this site? | Individual families Clan leader Settlement leader Gatekeeper District authorities Landowner None of the above Do not know Other | Settlement |
| C.06 | KI Interview | Risk of Evictions - Tenure Agreement | If other, please specify: | Enter text | Settlement |
| C.07 | KI Interview | Risk of Evictions - Duration of Tenure Agreement | For the land tenure agreement, how often is the tenure agreement renewed? | 1 month 3 months 6 months 6 months to 1 year 1 to 2 years More than 2 years No renewal Do not know | Settlement |
| C.08 | KI Interview | Risk of Evictions - Rent Payment | How do residents pay rent in return for residing in this site? | Rent paid in cash Rent paid in work / services Rent paid in goods / humanitarian assistance No rent paid Do not know Rent paid in other way | Settlement |
| C.09 | KI Interview | Risk of Evictions - Rent Payment | If other, please specify: | Enter text | Settlement |
| C.10 | KI Interview | Risk of Evictions - Frequency of Paying Rent | How frequently do residents in this site pay rent? | Daily Weekly Monthly | Settlement |

| | | | | | |
|-------------|--------------|--------------------------------------|--|---|------------|
| | | | | Every 2 to 3 months More than 3 months Do not know | |
| C.11 | KI Interview | Risk of Evictions - Eviction Notices | In the past 3 months, has this site been issued an eviction notice? | Yes No Do not know | Settlement |
| C.12 | KI Interview | Risk of Evictions - Eviction Notices | If yes, was a specific date set for leaving? | Yes No Do not know | Settlement |
| C.13 | KI Interview | Risk of Evictions - Eviction Notices | In the past 3 months, how many households have been evicted from this site? | Enter integer | Settlement |
| D.01 | KI Interview | Shelter - Shelter Type | What are the most common types of shelters present in this site? | Buul Timber and plastic sheet with CGI roof Shelter constructed using shelter kit CGI sheet wall and roof Mud and stick wall with CGI roof Plywood wall with CGI roof Stone/brick wall with CGI roof: Type 1 Stone/brick wall with CGI roof: Type 2 None of the above | Settlement |
| D.02 | KI Interview | Shelter - Hazards | In the past 3 months, have fires occurred in this site? | Yes No | Settlement |
| D.03 | KI Interview | Shelter - Hazards | In the past 3 months, how many shelters have been destroyed by fires in this site? | Enter integer | Settlement |
| D.04 | KI Interview | Shelter - Hazards | In the past year, has flooding occurred in this site? | Yes No | Settlement |
| D.05 | KI Interview | Shelter - Hazards | In the past years, how many shelters have been destroyed by flooding in this site? | Enter integer | Settlement |
| D.06 | KI Interview | Shelter - Public Lighting | Is there any public lighting throughout the site? | Yes No | Settlement |
| E.01 | KI Interview | NFI - Availability of NFI Markets | Within or around this site, is there access to an NFI and construction materials market? | Yes No | Settlement |

| | | | | | |
|------|--------------|--|--|--|------------|
| E.02 | KI Interview | NFI - NFI Availability | Which of these items are available for purchase at the market(s)? | Food Medicines Hygienic menstruation materials Local construction materials Clothes Sleeping mats Plastic sheets Blankets Jerry cans or buckets Wash basins Cooking utensils Soap Mosquito nets Solar lamp None of the above | Settlement |
| E.03 | KI Interview | NFI - Access to NFI Markets | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest NFI and construction materials market? | Enter integer | Settlement |
| E.04 | KI Interview | NFI - Access to NFI Markets | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest NFI and construction materials market? | Enter integer | Settlement |
| E.05 | KI Interview | NFI - Access to NFI Markets | For any of the following groups, are there any impediments to accessing NFI and construction materials markets? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| E.06 | KI Interview | WASH (Water) - Functional Water Points Available | Within or around this site, how many water sources are present? | Enter integer | Settlement |
| E.07 | KI Interview | WASH (Water) - Functional Water Points Available | What percentage of these water sources are functional? Flowing regularly and freely | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Settlement |
| E.08 | KI Interview | WASH (Water) - Availability of Improved Drinking Water Sources | What is the primary source of water for residents in this site? (used for drinking) | Water kiosk Vendors or shop Piped system Protected well | Settlement |

| | | | | | |
|-------------|--------------|--|---|--|------------|
| | | | | without hand pump Protected well with hand pump Unprotected well Berkad River Water tank and tap Water trucking distribution point Borehole with submersible pump Other | |
| E.09 | KI Interview | WASH (Water) - Availability of Improved Drinking Water Sources | If other, please specify | Enter text | Settlement |
| E.10 | KI Interview | WASH (Water) - Availability of Improved Drinking Water Sources | What is the secondary source of water for residents in this site? (used for drinking) | Water kiosk Vendors or shop Piped system Protected well without hand pump Protected well with hand pump Unprotected well Berkad River Water tank and tap Water trucking distribution point Borehole with submersible pump Other | Settlement |
| E.11 | KI Interview | WASH (Water) - Availability of Improved Drinking Water Sources | If other, please specify | Enter text | Settlement |
| E.12 | KI Interview | WASH (Water) - Availability of Improved Domestic Water Sources | What is the main domestic water source? (used for cooking, cleaning, bathing, NOT for agriculture or livestock) | Water kiosk Vendors or shop Piped system Protected well without hand pump Protected well with hand pump Unprotected well Berkad River Water tank and tap Water trucking distribution point Borehole with submersible pump Other | Settlement |

| | | | | | |
|------|--------------|--|---|---|------------|
| E.13 | KI Interview | WASH (Water) - Availability of Improved Domestic Water Sources | If other, please specify | Enter text | Settlement |
| E.14 | KI Interview | WASH (Water) - Water Treatment | Do residents in this site treat their water? | Yes No | Settlement |
| E.15 | KI Interview | WASH (Water) - Water Treatment | How do they treat water? | Boiling Cloth filter Other kind of filter (membrane, ceramic, or commercial filter) Chlorine tablets/aquatabs Other | Settlement |
| E.16 | KI Interview | WASH (Water) - Water Treatment | If other, please specify | Enter text | Settlement |
| E.17 | KI Interview | WASH (Water) - Access to Water Sources | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest working water source? | Enter integer | Settlement |
| E.18 | KI Interview | WASH (Water) - Access to Water Sources | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest working water source? | Enter integer | Settlement |
| E.19 | KI Interview | WASH (Water) - Access to Water Sources | For any of the following groups, are there any impediments to accessing water sources? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| | KI Interview | WASH (Sanitation) - Access to functional toilets | How many of the following are on site and functioning: | Note | Settlement |
| E.20 | KI Interview | WASH (Sanitation) - Access to functional toilets | Male toilets | Enter integer | Settlement |
| E.21 | KI Interview | WASH (Sanitation) - Access to functional toilets | Female toilets | Enter integer | Settlement |
| E.22 | KI Interview | WASH (Sanitation) - Access to functional toilets | Non-gendered toilets | Enter integer | Settlement |
| E.23 | KI Interview | WASH (Hygiene) - Access to Bathing Facilities | Bathing facilities | Enter integer | Settlement |

| | | | | | |
|------|--------------|---|--|---|------------|
| E.24 | KI Interview | Hygiene - Access to Handwashing Facilities | What percentage of toilets have handwashing facilities? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Settlement |
| E.25 | KI Interview | WASH (Sanitation) - Access to toilets with locks | What percentage of toilets have locks on the inside? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Settlement |
| E.26 | KI Interview | WASH (Sanitation) - Access to toilets with lights | What percentage of toilets have internal lighting? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Settlement |
| E.27 | KI Interview | WASH (Sanitation) - Frequency of desludging | How frequently does desludging of latrines occur? | Not at all Daily Weekly 1 to 3 months 3 to 6 months 1 to 2 years More than 2 years Do not know | Settlement |
| E.28 | KI Interview | WASH (Sanitation) - Presence of Open Defecation | Is faecal matter visible around households or within the settlement? | Yes No | Settlement |
| E.29 | KI Interview | WASH (Sanitation) - Disposal of Solid Waste | How is solid waste mainly disposed of by residents of this site? | Household or communal covered pit Burial if in designated areas far from houses and water sources In open Burning - near or far from home None of the above Do not know Other | Settlement |
| E.30 | KI Interview | WASH (Sanitation) - Access to Latrines | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest latrine? | Enter integer | Settlement |
| E.31 | KI Interview | WASH (Sanitation) - Access to Latrines | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest latrine? | Enter integer | Settlement |
| E.32 | KI Interview | WASH (Sanitation) - Access to Latrines | For any of the following groups, are there any impediments to accessing latrines? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities | Settlement |

| | | | | | |
|------|--------------|---|---|--|------------|
| | | | | None of the above | |
| E.33 | KI Interview | WASH (Hygiene) - Access to Bathing Facilities | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest bathing facility? | Enter integer | Settlement |
| E.34 | KI Interview | WASH (Hygiene) - Access to Bathing Facilities | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest bathing facility? | Enter integer | Settlement |
| E.35 | KI Interview | WASH (Hygiene) - Access to Bathing Facilities | For any of the following groups, are there any impediments to accessing bathing facilities? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| E.36 | KI Interview | Health - Access to Health Facilities | Within or around this site, what types of health facilities are available? | First aid post Pharmacy District hospital Mobile clinic Private clinic NGO clinic Government run clinic None of the above Other | Settlement |
| F.01 | KI Interview | Health - Access to Health Facilities | If other, please specify: | Enter text | Settlement |
| F.02 | KI Interview | Health - Access to Health Services | Within or around this site, what types of health services are available? | Basic primary healthcare Vaccinations Child healthcare Maternal healthcare Nutrition counselling / services Mental health services Other | Settlement |
| F.03 | KI Interview | Health - Access to Health Services | If other, please specify: | Enter text | Settlement |
| F.04 | KI Interview | Health - Health Problems | What types of health problems are common amongst residents in this site? | Malaria Fever Acute watery diarrhoea / | Settlement |

| | | | | | |
|-------------|--------------|--|--|---|------------|
| | | | | Cholera Respiratory problems Malnutrition (diagnosed by qualified health or nutrition practitioner) Gastrointestinal problems Injuries/Wounds Measles Other | |
| F.05 | KI Interview | Health - Health Problems | If other, please specify: | Enter text | Settlement |
| F.06 | KI Interview | Health - Health Personnel for Women Giving Birth | Are women giving birth while attended by skilled health personnel (trained midwife, doctor, nurse)? | Yes No | Settlement |
| F.07 | KI Interview | Health - Access to Health Facilities | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest health facility? | Enter integer | Settlement |
| F.08 | KI Interview | Health - Access to Health Facilities | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest health facility? | Enter integer | Settlement |
| F.09 | KI Interview | Health - Access to Health Facilities | For any of the following groups, are there any impediments to accessing health facilities? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| G.01 | KI Interview | Nutrition - Access to Nutrition Services | Within or around this site, where do residents go for nutrition services? | Stabilization Centre (SC) Outpatient Therapeutic Care Programme (OTP) Targetted Supplementary Feeding Programme (TSFP) Blanket Supplementary | Settlement |

| | | | | | |
|-------------|--------------|---|--|--|------------|
| | | | | Feeding programme (BSFP) Wet Feeding; Infant and Young Child Feeding (ICYF) Micronutrient Supplementation None of the above Other | |
| G.02 | KI Interview | Nutrition - Access to Nutrition Services | If other, please specify: | Enter text | Settlement |
| G.03 | KI Interview | Nutrition - Access to Nutrition Services | In this site, have you ever seen residents with the following: | MUAC tape Ready-to-Use Therapeutic Food and Supplementary Food (RUTF & RUSF) (example: Plump'Nut, Plumpy'Sup) Super Cereal Plus Therapeutic milk products (F75 or F100) None of the above | Settlement |
| G.04 | KI Interview | Nutrition - Access to Nutrition Services | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest nutrition service? | Enter integer | Settlement |
| G.05 | KI Interview | Nutrition - Access to Nutrition Services | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest nutrition service? | Enter integer | Settlement |
| G.06 | KI Interview | Nutrition - Access to Nutrition Services | For any of the following groups, are there any impediments to accessing nutrition services? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| H.01 | KI Interview | Education - Access to Learning Facilities | Within or around this site, what types of schools or learning | Primary Secondary Quoranic | Settlement |

| | | | | | |
|------|--------------|---|--|---|------------|
| | | | facilities are available with children attending classes regularly? | Basic Literacy and Numeracy Classes | |
| H.02 | KI Interview | Education - Access to Learning Facilities | If other, please specify: | Enter text | Settlement |
| H.03 | KI Interview | Education - Access to Learning Facilities | What percentage of these schools or learning facilities have gender segregated latrines? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Settlement |
| H.04 | KI Interview | Education - Access to Learning Facilities | What percentage of these schools or learning facilities have fences and clear demarcation? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Settlement |
| H.05 | KI Interview | Education - Access to Learning Facilities | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest school or learning facility? | Enter integer | Settlement |
| H.06 | KI Interview | Education - Access to Learning Facilities | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest school or learning facility? | Enter integer | Settlement |
| H.07 | KI Interview | Education - Access to Learning Facilities | For any of the following groups, are there any impediments to accessing schools or learning facilities? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| I.01 | KI Interview | Food Security - Access to Food Sources | What is the primary source of food for most residents in this site? | Market purchases Household production Own livestock Fishing / Foraging / Hunting Food assistance from NGO aid Food assistance from government aid Gifts from family / friends / neighbors Borrowing/Debts Trade for labour Other | Settlement |

| | | | | | |
|------|--------------|--|--|---|------------|
| I.02 | KI Interview | Food Security - Access to Food Sources | If other, please specify | Enter text | Settlement |
| I.03 | KI Interview | Food Security - Access to Food Sources | What is the secondary source of food for most residents in this site? | Market purchases Household production Own livestock Fishing / Foraging / Hunting Food assistance from NGO aid Food assistance from government aid Gifts from family / friends / neighbors Borrowing/Debts Trade for labour Other | Settlement |
| I.04 | KI Interview | Food Security - Access to Food Sources | If other, please specify | Enter text | Settlement |
| I.05 | KI Interview | Food Security - Land Usage | Are the majority of residents in this site involved in day labor or agro-pastoralist activities? | Daily wage labour Pastoralism Livestock None of the above | Settlement |
| I.06 | KI Interview | Food Security - Livelihood | Is there land available to residents in this site for raising livestock? | Yes No | Settlement |
| I.07 | KI Interview | Food Security - Land Usage | Is there land available to residents in this site for agriculture / cultivation purposes? | Yes No | Settlement |
| I.08 | KI Interview | Food Security - Land Usage | Within or around this site, is there access to a food market? | Yes No | Settlement |
| I.09 | KI Interview | Food Security - Access to Food Markets | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest food market? | Enter integer | Settlement |
| I.10 | KI Interview | Food Security - Access to Food Markets | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest food market? | Enter integer | Settlement |
| I.11 | KI Interview | Food Security - Access to Food Markets | For any of the following groups, are there any impediments to accessing food markets? | Women Children Elders (Persons age 60 and more) Persons with | Settlement |

| | | | | | |
|-------------|--------------|--|--|---|------------|
| | | | | difficulty seeing, hearing, or moving around Minorities None of the above | |
| J.01 | KI Interview | Protection - Covered Shared Community Spaces | Are there any covered shared site spaces in the site? | Yes No | Settlement |
| J.02 | KI Interview | Protection - Spaces for Women and Girls | Is there a designated space where women and girls can gather (women's center, women's and girls' safe space, etc.) in this site? | Yes No | Settlement |
| J.03 | KI Interview | Protection - Child Friendly Spaces | Are there any child friendly spaces in this site where children can meet and play with or without supervision (park, gym, playground, etc.)? | Yes No | Settlement |
| J.04 | KI Interview | Protection - Types of Incidents Occurring | In the past 3 months, what are the types of incidents that have occurred in this site? | Armed violence Incidents due to UXO Disappearances Gender based violence Arrests and detention Abductions Displacement Forced military recruitment Friction between community and surrounding host communities Violence during aid distribution Exploitation and abuse related to access to assistance Cases of unaccompanied and separated children Land grabbing Destruction of property Denied access to justice None of the above Other | Settlement |
| J.05 | KI Interview | Protection - Types of Incidents Occurring | If other, please specify: | Enter text | Settlement |

| | | | | | |
|-------------|--------------|---|--|---|------------|
| J.06 | KI Interview | Protection - Types of Incidents Occurring | In the past 3 months, have you heard of any of the following safety and security incidents occurring in this site: | In shelters When leaving settlement/town On the way or at NFI markets On the way or at food markets On the way or at water sources On the way or at latrines On the way or at bathing facilities On the way or at schools or education facilities On the way or at health facilities At humanitarian aid distribution points No answer | Settlement |
| J.07 | KI Interview | Protection - Restrictions to movement | Are there restrictions of movement during the day? | Yes No | Settlement |
| J.08 | KI Interview | Protection - Restrictions to movement | Are there restrictions of movement during the night? | Yes No | Settlement |
| K.01 | KI Interview | AAP - Support Provided | In the past 3 months, have any of the following activities taken place in this site?: | Provision of shelter kits Provision of NFI kits/items Provision of food distribution Construction / rehabilitation of water sources Construction / repair of latrines Distribution of hygiene kits (jerry cans for storage / transport, soap / hygienic menstrual materials) Cash distribution Nutrition counselling MUAC screening Distribution of therapeutic foods or nutritional supplements Awareness campaign advocating | Settlement |

| | | | | | |
|-------------|--------------|---|---|--|------------|
| | | | | proper WASH practices Vaccination campaigns or any other health-related campaigns | |
| K.02 | KI Interview | AAP - Support Provided | If other, please specify: | Enter text | Settlement |
| K.03 | KI Interview | AAP - Access to Support | For any of the following groups, are there any impediments to accessing support activities? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| K.04 | KI Interview | AAP - Information on Services | What are the main sources of information from which residents in this site receive information on humanitarian services? | Television Radio Newspapers Internet Friends / Neighborhood / Family Community / Religious Leaders Aid Workers UN / International / Local NGO None of the above Other | Settlement |
| K.05 | KI Interview | AAP - Access to Information on Services | If other, please specify: | Enter text | Settlement |
| K.06 | KI Interview | AAP - Access to Information on Services | What are the main sources of information from which persons with difficulty seeing, hearing or moving around in this site receive information on humanitarian services? | Posters Radio Word of mouth Meetings in person Community meetings None of the above Other | Settlement |
| K.07 | KI Interview | AAP - Access to Feedback Mechanisms | If other, please specify: | Enter text | Settlement |
| K.08 | KI Interview | AAP - Access to Feedback Mechanisms | What are the main problems experienced by residents in the delivery of humanitarian assistance | Fighting between recipients Not enough for all entitled Distribution was interrupted by an | Settlement |

| | | | | | |
|-------------|--------------|--------------------------------------|--|--|------------|
| | | | | attack Assistance was physically too heavy or bulky for the vulnerable in the community to take Some population groups not receiving aid Non-affected groups are demanding humanitarian assistance Political interference in distribution of aid Assistance did not respond to the actual needs Exploitation of recipients Insufficient instruction on how to use items received Presence of armed actors Extortion of assistance None of the above Other | |
| K.09 | KI Interview | AAP - Barriers to Accessing Services | If other, please specify: | Enter text | Settlement |
| K.10 | KI Interview | AAP - Barriers to Accessing Services | Is there a mechanism in place for residents in this site to provide feedback? | Yes No | Settlement |
| K.11 | KI Interview | AAP - Barriers to Accessing Services | For any of the following groups, are there any impediments to accessing feedback mechanisms? | Women Children Elders (Persons age 60 and more) Persons with difficulty seeing, hearing, or moving around Minorities None of the above | Settlement |
| K.11 | KI Interview | AAP - Barriers to Accessing Services | What are the different languages spoken by residents in this site? | Standard/ Northern Somali Benaadir Somali Maay Somali Arabic English Italian | Settlement |

| | | | | | |
|---|-------------|-----------------------|-------------------------------|---|-------------------------|
| | | | | Bravanese (Chimwiini/ Chimbalazi) Kibajuni Mushunguli Somali Sign Language None of the above Other | |
| | L.01 | Direct Observation | Observation - Verification | (Observation) Have you seen any shelters damaged? | Yes No Settlement |
| | L.02 | Direct Observation | Observation - Verification | (Observation) Have you seen any faecal matter around shelters? | Yes No Settlement |
| | L.03 | Direct Observation | Observation - Verification | (Observation) Have you seen any burning of waste? | Yes No Settlement |
| | L.04 | Direct Observation | Observation - Verification | (Observation) Have you seen any public lighting? | Yes No Settlement |
| | L.05 | Direct Observation | Observation - Verification | (Observation) Is there a main access road leading to the IDP settlement? | Yes No Settlement |
| | L.06 | Direct Observation | Observation - Verification | (Observation) Is there a secondary access road leading to the IDP settlement? | Yes No Settlement |
| Where are the locations of IDP settlements in the assessed urban areas? | L.07 | Direct Observation | Localisation | Take the GPS reading for the community. If inside, please go outside the entrance to record the coordinates. Wait for the accuracy to drop below 5 metres before continuing. | GPS Settlement |

6. Data Cleaning SOPs

Following data collection in the field, the following procedure will be implemented to prepare raw data for analysis. The raw data will consist of **survey data on IDP settlements from face-to-face KIIs** conducted by enumerators on the day of data collection and **survey data on IDP settlements from remote KIIs** conducted by Field Officers after the face-to-face KIIs for those IDP settlements are conducted. The final output will consist of **one cleaned de-identified dataset at the settlement level**, with data from the face-to-face and remote KIIs for each IDP settlement on the same row, and **change-logs** for any changes made to the dataset in the process of data checks and cleaning.

Post Data Collection:

Post data collection in the field, the following steps will take place:

1. **At the end of every day of data collection**, enumerators will upload survey data for all face-to-face KIIs conducted to the UNHCR KoBo server. Field Officers will oversee enumerators to ensure that this is done on a daily basis.
2. **After data is uploaded**, the Senior Database Officer will download the raw data from the UNHCR KoBo server. The Senior Database Officer is the only person authorized to do so.
3. In preparing the raw data for analysis, the **Senior Database Officer** will conduct the following processes:
 - a. Check for and remove duplicates in the raw data to **ensure that all observations are unique**.
 - b. **Raw Dataset for Spatial Verification**: Generate a copy of the raw dataset with only data columns for UUID, Localisation, and GPS coordinates. Data columns to be included are as shown below:
 - UUID <_uuid>
 - Localisation
 - Region Name <localisation_region>
 - District Name <localisation_district>
 - Village Name <localisation_settlement>
 - Nearest Village <localisation_settlement_nearest>
 - Local Name of Settlement <localisation_settlement_name_local>
 - GPS Coordinates
 - Latitude <observation_gps_latitude>
 - Longitude <observation_gps_longitude>
 - Altitude <observation_gps_altitude>
 - Precision <observation_gps_precision>
 - c. **De-identified Raw Dataset**: Generate a copy of the raw dataset with data columns containing identifying information removed. Data columns to be removed are as shown below:
 - Key Informant Information
 - Name <ki_name>
 - Contact Phone Number <ki_contact>
 - Gender <ki_gender>
 - Role in Site <ki_role>
 - Key Informant Referral Information
 - Name <ki_referral_name>
 - Contact Phone Number <ki_referral_contact>
 - Gender <ki_referral_gender>
 - Role in Site <ki_referral_role>
 - GPS Coordinates
 - Latitude <observation_gps_latitude>
 - Longitude <observation_gps_longitude>
 - Altitude <observation_gps_altitude>
 - Precision <observation_gps_precision>

Field Officer Data Checks and Cleaning:

After download and preparation of the raw datasets, the **Senior Database Officer** will conduct the following processes:

1. Run the R script developed to implement required main checks on the dataset (Main Checks explained in detail in the next paragraph). Outputs of the R script are as follows:

- a. **Issues Log:** A log listing each specific case where checks have found a discrepancy in the dataset. For example, one KII may have several discrepancies found in the checks resulting in several rows showing up in the issues log. Each specific case will include a comment to the Field Officer on how to address the issue.
- b. **Log of Verification Questions:** A log of verification questions for each IDP settlement to be followed up on in the Remote KIIs. Based on discrepancies found during the checks in the R script, some questions asked in the face-to-face KII will be asked again in the Remote KII for verification purposes.
2. Disaggregate the **De-Identified Raw Dataset, Issues Log** and **Log of Verification Checks** into Districts.
3. Send each **District Disaggregated Dataset** and **Issues Log** to the respective Field Officer in charge of coordinating data collection activities in these districts. Data sets held by Field Officers will continuously increase as new data arrives.
4. Upload each **Log of Verification Checks** as item sets to the Remote KII KoBo tool.

After receiving the **District Disaggregated Dataset** and **Issues Log**, **Field Officers** will conduct the following processes:

1. **Copy of De-Identified Raw Dataset:** Save copies of the de-identified raw datasets before conducting any data checks and cleaning.
2. **Data Checks (Macro Tool):** Using the macro-enabled excel cleaning tool, check for and investigate any discrepancies in the dataset. Main Checks to be conducted are as follows:
 - a. **Contradiction Checks:** Instances in the dataset where reported answers contradict other reported answers. For example, *Number of Individuals* reported is less than the *Number of Families*. To address these issues, verify by asking these questions in the Remote KII.
 - b. **Observation Checks:** Instances in the dataset where reported answers contradict direct observations of the enumerators. For example, KI reported *No Public Lighting Present* but the enumerator reported *Observed Public Lighting*. To address these issues, verify by asking these questions in the Remote KII.
 - c. **Outlier Checks:** Instances in the dataset where continuous values deviate significantly from the average. For example, *Number of Water Sources* reported is 1,000 whereas the *Average Number of Water Sources* is 200. To address these issues, verify by asking these questions in the Remote KII.
 - d. **Disagreement Checks:** Instances in the dataset where answers reported by the First Face-To-Face KI are different from the Second Face-To-Face KI. For example, the first KI reported *No Access To NFI Markets* and the second KI reported *Access To NFI Markets*. To address these issues, verify by asking these questions in the Remote KII.
 - e. **More than Three Responses Checks:** Instances in the dataset where enumerators are found to be reporting more than three responses for select multiple choices significantly more than other enumerators. To address these issues, discuss with enumerators to make sure it is understood how to ask these questions to a KI and how to collect responses.
 - f. **Do not know / No answer Checks:** Instances in the dataset where enumerators are found to be commonly reporting *Do not know / No answer* for select multiple choices significantly more than other enumerators. To address these issues, discuss with enumerators to make sure it is understood how to ask these questions to a KI and how to collect responses.
 - g. **Other Response Checks:** Instances in the data where enumerators selected *Other option* and entered a text response to explain an option. To address these issues, review and translate the text response and make the necessary changes in the dataset.
 - h. **Any other Checks:** All other potential issues in the dataset based on the situational knowledge and experience of the Field Officer to be addressed as necessary and recorded in the cleaning log.
3. **Data Checks (Issues Log):** In addition to the Macro Tool, using the **Issues Log**, check for and investigate any discrepancies in the dataset.
4. **Data Cleaning:** Following data checks, using the macro-enabled excel cleaning tool, clean the dataset as necessary.
5. **Change Log:** Update the change log recording any changes made to the dataset and justification for the changes made over the course of data checks and cleaning.
6. **Spatial Verification Checks:** Using a webmap application, spatially verify GPS points recorded in the face-to-face KIIs. Based on investigation, flag entries deemed suspicious for the GIS Specialist to review later on. Spatial Verification checks to be conducted are as follows:
 - a. **Inconsistent Region and District:** Instances in the dataset where GPS coordinates recorded for the settlement exist outside the spatial boundary of the District entered for the settlement. To address this

- issue, correct the Region and/or District as necessary recording the change in the change log. If additional GIS support is needed, flag as an issue for the GIS Specialist to address.
- b. **Inconsistent Settlement:** Instances in the dataset where GPS coordinates recorded for the settlement do not exist within close spatial proximity to the GPS coordinates recorded for that settlement in the previous round of DSA. To address this issue, check and investigate with the enumerators as necessary, and if possible, the KI and correct the Settlement Name as necessary recording the change in the change log. If additional GIS support is needed, flag as an issue for the GIS Specialist to address.
 - c. **Inconsistent KI Locations:** Instances in the dataset where GPS coordinates recorded for the two KIs of the settlement do not exist within close spatial proximity of each other. To address this issue, check and investigate with the enumerators as necessary. If additional GIS support is needed, flag as an issue for the GIS Specialist to address.
 - d. **Potential Duplication:** Instances in the dataset where GPS coordinates recorded for a settlement is overlapping with or exists within too close of a spatial proximity to the GPS coordinates recorded for another settlement. To address this issue, check and investigate with the enumerators as necessary. If additional GIS support is needed, flag as an issue for the GIS Specialist to address.
7. **Additional Verification:** Verify any discrepancies within the data that require additional verification as discovered in the Main Checks in the **Post Remote KIs**.
 8. **Following Data Checks and Cleaning,** send **Cleaned Datasets** and **Change-Logs** to the **Senior Database Officer** and the **Assessment Officer**.

GIS Spatial Verification:

After Data Checks and Cleaning have been conducted by the Field Officers, the **Senior Database Officer** will relay onto the GIS Specialist any additional spatial verification checks as required sending a subset of the **Raw Dataset for Spatial Verification** of UUIDs that need to be checked. As in the Field Officer Data Checks and Cleaning, there are four possible **spatial verification checks (Inconsistent Region and District, Inconsistent Settlement, Inconsistent KI Locations, Possible Duplication)**. As flagged by the Field Officers, the GIS Specialist will conduct these checks.

Following GIS Spatial Verification, the GIS Specialist will generate and send the Senior Database Officer the **Dataset with Spatial Verification checks** on the conducted spatial verification checks. Data columns to be included shown below.

- UUID
- Localisation (As determined by Spatial Verification Checks)
 - Region Name <localisation_region>
 - District Name <localisation_district>
 - Village Name <localisation_settlement>
- Spatial Verification Checks
 - Inconsistent Region and District: Value of **Clear** or **Not Clear**
 - Inconsistent Settlement: Value of **Clear** or **Not Clear**
 - Inconsistent KI Locations: Value of **Clear** or **Not Clear**
 - Potential Duplication: Value of **Clear** or **Not Clear**

The **Senior Database Officer** will merge the dataset with spatial verification checks with the dataset from the data checks and cleaning.

Using Web Map:

Basic web application will be circulated at the end of each day's data collection so we can see the overall progress of data collection. You'll see the number of surveys collected from each location in a popup box. and once you click the box you'll see the disaggregated surveys come under that location. E.g. if 100 Surveys were collected from Hargeisa city at the top I'll see box with 100 and once I click I'll see where these 100 belong.

Based on our methodology we're expecting to receive two surveys from each site so we'll need to go through the map from top to down and see if some potential duplication exists or if single survey is taken from one site. Along with your daily check final spatial verification comments from the GIS will be shared.

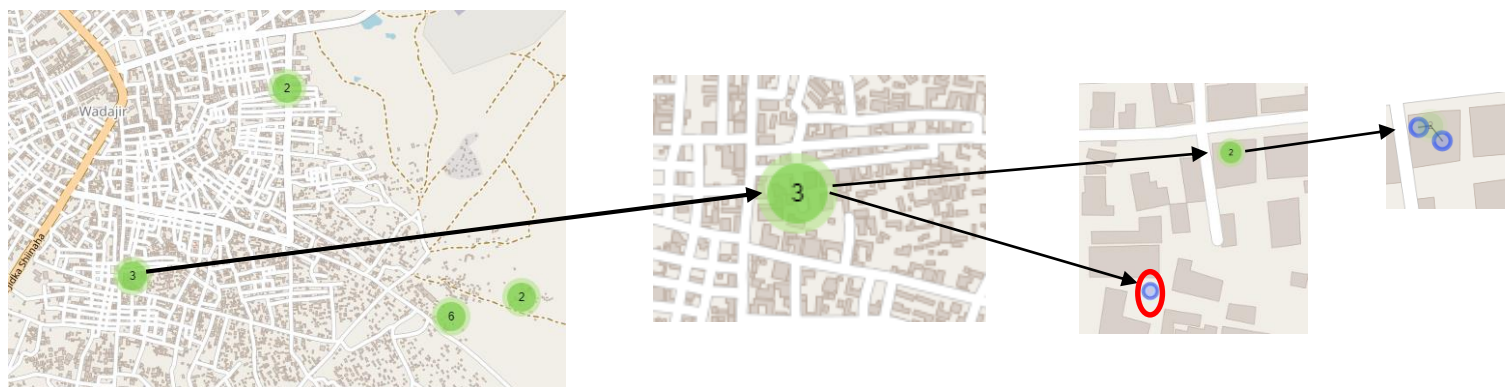
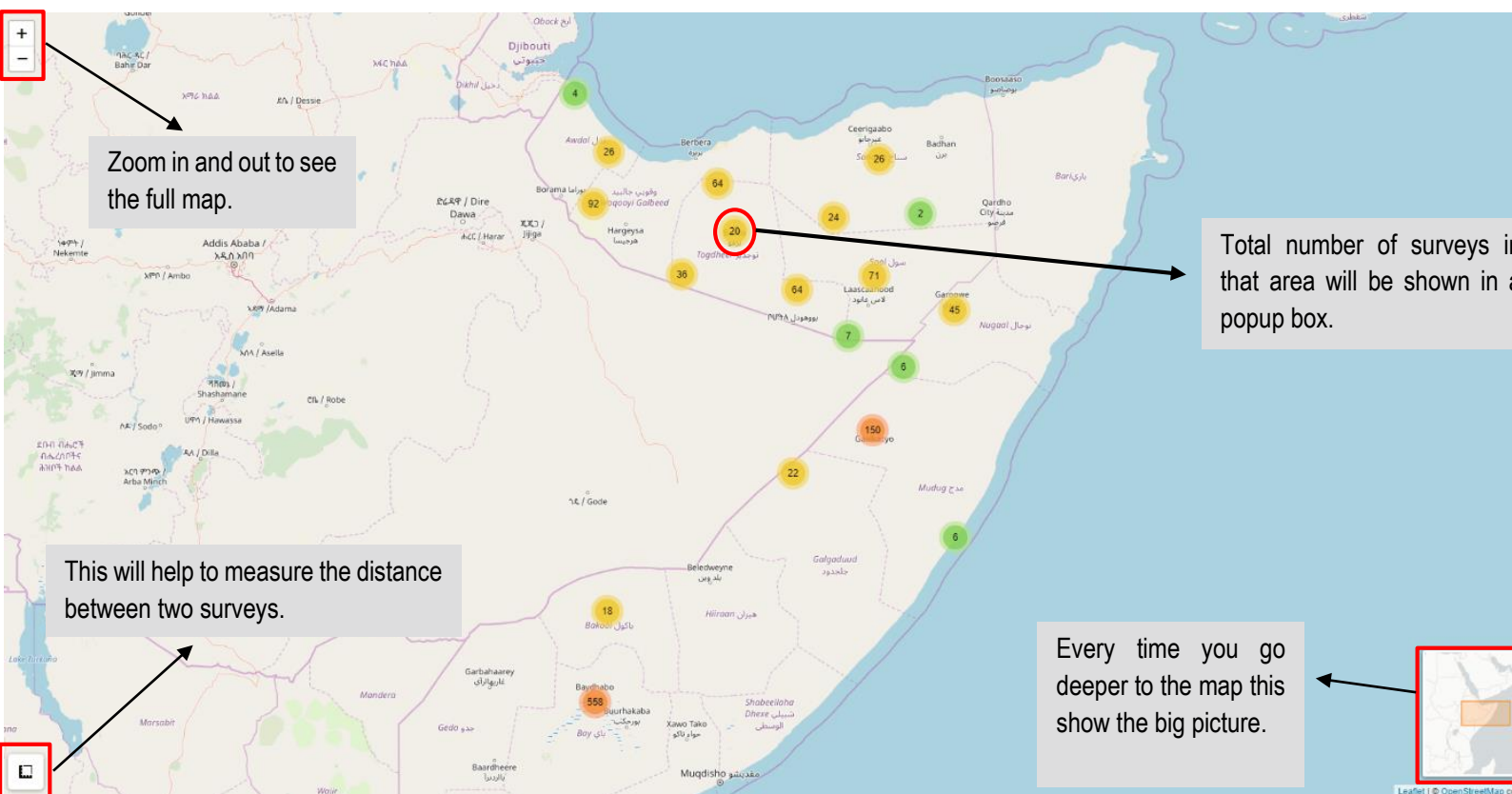
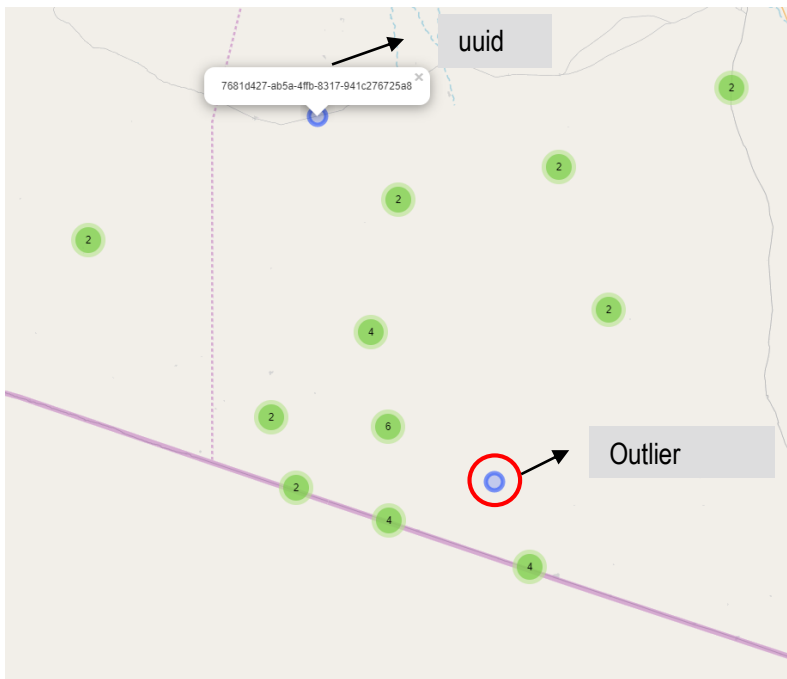


Figure 1 An example of identifying outliers/ surveys from one point.



Detecting Missing/Duplicated Points:

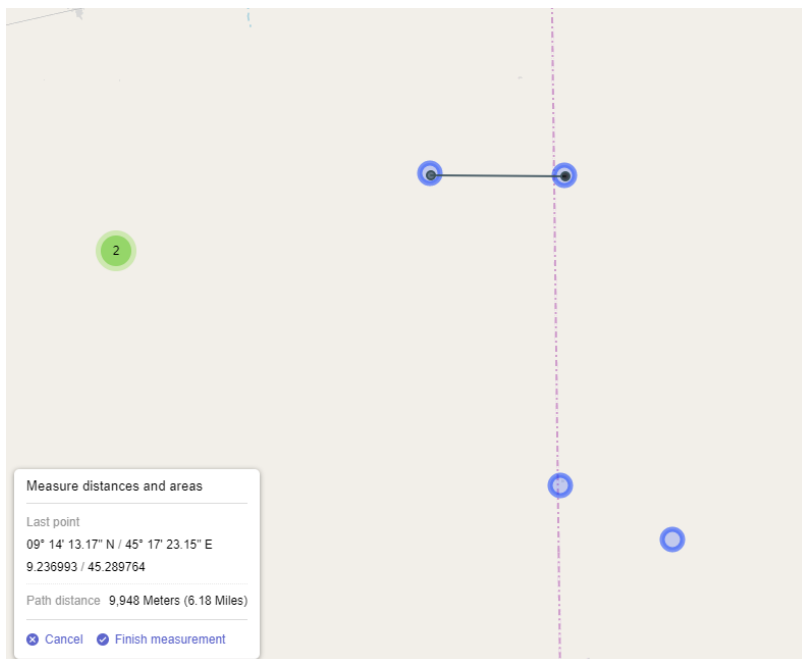
For instance, if one is collected from one site you can see it as standing alone blue dot in the map as shown in the outlier. So you can click it and see the uuid and then copy it so you can find it from the raw data.



✓ Two surveys are collected from the same location.



✗ Three surveys are collected from the same location.



Measure the distance between two surveys:

For instance, if the two surveys taken from one site are too far from each other you can measure the distance by using the lower left button.



Pre Remote Key Informant Interviews:

Prior to the Remote Key Informant Interviews, the **Senior Database Officer** will conduct the following processes:

1. Using an R script, generate an Item Set indicating the UUID, the name of the referred KI, the contact information of the referred KI, the number of verification questions to be asked in the Remote KII, a code indicating which verification questions will be asked in the remote KII, and an additional UUID specifically for the Remote KIIs.
2. Upon completion of data collection for a region, upload and constantly update Item Sets for the Remote KII tool on the UNHCR KoBo server.
3. To each Field Officer, send a list of UUIDs linked to the settlements in the districts they are in charge of.
4. Note: For data protection purposes, the KoBo tool for the remote KIIs is designed so that only the Senior Database Officer will be in possession of the remote KI's name and contact information. In the remote KII, Field Officers will enter a UUID, provided by the Field Officer, into the KoBo form, and only then will the name and contact information of the referral KI appear thus ensuring that their information is protected.

Remote Key Informant Interviews:

Following completion of data collection in a region, the **Field Officer** in charge of these regions will conduct the following processes:

1. After receiving the list of UUIDs for the remote KIIs from the Senior Database Officer, conduct the remote KIIs via telephone.
2. Remote KIIs will consist of the following questions:
 - a. Population Estimates
 - Number of Shelters
 - Number of Households
 - Number of Individuals
 - b. Verification Questions
 - Questions on any discrepancies for indicators that came up during Data Checks and Cleaning
3. Upload survey data from the remote KIIs to the UNHCR KoBo server.

Post Remote Key Informant Interviews:

Following Remote KIIs, the following steps will take place:

1. **After data is uploaded**, the Senior Database Officer will download the raw data for the remote KIIs from the UNHCR KoBo server. The Senior Database Officer is the only person authorized to do so.
2. Using an R script, the raw data for the remote KIIs will be cleaned with any changes made automatically recorded in a change-log.
3. From the UUID, the Senior Database Officer will merge the cleaned data from the remote KIIs onto the cleaned data from the face-to-face KIIs.
4. Following this, the Senior Database Officer will send the cleaned datasets and change-logs to the Assessment Officer.

Assessment Officer Data Checks and Cleaning:

After receiving the cleaned datasets and change-logs from the Senior Database Officer, Assessment Officers will conduct a second check on the data. This will involve double-checking that all main checks have been conducted and review of the change-log to ensure that the dataset has been cleaned as necessary. Following the Remote KIIs, discrepancies between responses will be triangulated to assess the most accurate response for the indicator.

Post Data Checks and Cleaning:

Following confirmation that data checks and cleaning have been conducted as necessary, Assessment Officers will proceed to conduct analysis of the data as necessary.

Daily Data Preparation:

NOTE: The daily dataset received will contain a running log of all data until the point of download. Which means the data field officers receive today contains entries from yesterday as well.

We cannot use the date filter every time. The standardized approach that will facilitate filtering the newly added survey data is as follows:

1. Download the Newly_Data_Tool excel sheet

- Open the raw data set you receive on that day
- Copy that data into the Newly Data Tab of the Newly_Data_Tool
- Copy the uuid from your cleaning tool and paste it into the uuid sheet of the Newly_Data_Sheet
- Paste this formula into the last column of your New Data tab (in this case it should be ACD2)

$$=MATCH(QZ2,uuid!A2:A464,0)$$
- Filter the result number into #N/A which means the new data that has not match your cleaning log data.
- Copy that filtered data into your cleaning tool (Macro-Tool).

Following confirmation that data checks and cleaning have been conducted as necessary. Assessment

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
|------------------|------------------|------------|-------------|--------|---------|--------------|-------------|-----------------|----------|-------------------|-----------------|--------------------|----------------------|------------------------|--------------------------------|
| start | end | today | device_id | intent | comment | is_responded | is_status | is_status_other | is_name | is_name_preferred | is_location | is_location_region | is_location_district | is_location_settlement | is_location_settlement_nearest |
| 11/12/2019 8:04 | 11/12/2019 8:04 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:08 | 11/12/2019 8:08 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:12 | 11/12/2019 8:12 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:16 | 11/12/2019 8:16 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:20 | 11/12/2019 8:20 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:24 | 11/12/2019 8:24 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:28 | 11/12/2019 8:28 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:32 | 11/12/2019 8:32 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:36 | 11/12/2019 8:36 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:40 | 11/12/2019 8:40 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:44 | 11/12/2019 8:44 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:48 | 11/12/2019 8:48 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:52 | 11/12/2019 8:52 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 8:56 | 11/12/2019 8:56 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:00 | 11/12/2019 9:00 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:04 | 11/12/2019 9:04 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:08 | 11/12/2019 9:08 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:12 | 11/12/2019 9:12 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:16 | 11/12/2019 9:16 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:20 | 11/12/2019 9:20 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:24 | 11/12/2019 9:24 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:28 | 11/12/2019 9:28 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:32 | 11/12/2019 9:32 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:36 | 11/12/2019 9:36 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:40 | 11/12/2019 9:40 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:44 | 11/12/2019 9:44 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:48 | 11/12/2019 9:48 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:52 | 11/12/2019 9:52 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 9:56 | 11/12/2019 9:56 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:00 | 11/12/2019 10:00 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:04 | 11/12/2019 10:04 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:08 | 11/12/2019 10:08 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:12 | 11/12/2019 10:12 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:16 | 11/12/2019 10:16 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:20 | 11/12/2019 10:20 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:24 | 11/12/2019 10:24 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:28 | 11/12/2019 10:28 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:32 | 11/12/2019 10:32 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:36 | 11/12/2019 10:36 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:40 | 11/12/2019 10:40 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:44 | 11/12/2019 10:44 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
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| 11/12/2019 10:52 | 11/12/2019 10:52 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 10:56 | 11/12/2019 10:56 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:00 | 11/12/2019 11:00 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:04 | 11/12/2019 11:04 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:08 | 11/12/2019 11:08 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:12 | 11/12/2019 11:12 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:16 | 11/12/2019 11:16 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:20 | 11/12/2019 11:20 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:24 | 11/12/2019 11:24 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:28 | 11/12/2019 11:28 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:32 | 11/12/2019 11:32 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:36 | 11/12/2019 11:36 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:40 | 11/12/2019 11:40 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:44 | 11/12/2019 11:44 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:48 | 11/12/2019 11:48 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:52 | 11/12/2019 11:52 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 11:56 | 11/12/2019 11:56 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |
| 11/12/2019 12:00 | 11/12/2019 12:00 | 11/12/2019 | 3.52602E+04 | yes | | yes | is_status_1 | | multitag | gakikanyo | NB-3009-F21-001 | | | | |

new_data issues_log Spatial_Verification uuid

Checks for FO and AO

- From here, go through the data cleaning vertically and horizontally to ensure everything else is accurate
- Familiarize yourself with the data collection tool i.e. know how the tool logics – relevance and constraints, work.
- Have the last version of the tool opened next to you in order to understand what each question stands for.
- Be ready to perform sort and filter a million times! Pivots could aid the process or would be an alternative.
- Follow the column structure as it is – It is not advisable to skip any column to check later.
- You can print several copies of the SOP to keep track of the questions checked
- Look at things based on the specific context of work i.e. urban vs rural, IDP vs HC, riverine vs non-riverine and household size, etc.
- Inspect if one enumerator is reporting the same answers repeatedly
- Conduct the data checks on daily basis, and share the feedback with AO/GIS.
- Check all other values in the dataset – please do translations if needed. Also inform enumerators NOT to report in other when the answers can be found in the questionnaire.

| Check | Description | Cell(s) | Question / Calculation | Action |
|------------------|---|--------------|--|--|
| Check Form Time | Sort the time taken from Lowest to Highest or A to Z to check which surveys are filled in short time and which surveys are filled in longer periods, then highlight the feedback marked per enumerator in your notebook to brief the enumerators about it and advise accordingly. | | | |
| Survey Version | Check that the enumerator is using the most recent version of the survey form. | X__version__ | X__version__!="vXYYFiAj6JH7pRfaoWJUnV" | Investigate and inform enumerators to make sure they are using the most recent version of the survey form. |
| Completion | Check that the enumerator completed the interview. | | | Investigate and inform enumerators to make sure they complete interviews. |
| Duplicate Survey | Check that survey is not a duplicate. | | | Investigate and remove duplicates. |

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| Consent | Check that respondent provided consent. | consent | consent!="yes" | Investigate and inform enumerators to only continue interview if respondent has provided consent. |
| Key Informant – Community Leader | Check that most key informants are 'Community Leader', 'Gate Keeper' or 'Camp / Site Manager'. | ki_role | ki_role != 'ki_role_1' & ki_role != 'ki_role_2' & ki_role != 'ki_role_3' | Investigate and inform enumerators to reach out to Community Leaders, Camp / Site Managers, and Gate Keepers for the community leader KII. |
| Key Informant - Women's Representative | Check that women's representative key informants are female. | ki_gender | ki_gender != 'female' | Investigate and inform enumerators to reach out to females for the women's representative KII. |
| Key Informant - Displacement Status | Check that key informants are mostly IDPs | ki_status | ki_status != 'ki_status_1' | Ensure that enumerators are reaching out to IDP settlements. |
| Contradiction: Population Estimates – Families to Shelters | Check that number of families is more than or equal to number of shelters. | cccm_populationestimates_families cccm_populationestimates_shelters | cccm_populationes timates_families < cccm_populationes timates_shelters | Cofirm in Remote KII |
| Contradiction : Population Estimates – Individuals to Families | Check that number of individuals is more than or equal to number of families. | cccm_populationestimates_individuals cccm_populationestimates_families | cccm_populationes timates_individuals < cccm_populationes timates_families | Cofirm in Remote KII |
| Contradiction: Total Families to Families Arrived and Families Departed | Check that the total number of families is more than or equal to the number of families arrived minus the number of families departed. | cccm_populationestimates_families data\$cccm_idps_arrived data\$cccm_idps_departed | cccm_populationes timates_families < (cccm_idps_arrived - | Cofirm in Remote KII |

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| | | | cccm_idps_departed) | |
| Contradiction: Site Duration & IDPs Arrival | Check that the number of months that the site has been established is more than or equal to the number of months that most IDPs have arrived. | cccm_site_duration cccm_idps_arrival_months | cccm_site_duration < cccm_idps_arrival_months | Confirm in Remote KII. |
| Contradiction: Site Duration & IDPs Departure | Check that the number of months that the site has been established is more than or equal to the number of months that most IDPs have arrived. | cccm_site_duration cccm_idps_departure_months | data\$cccm_site_duration < data\$cccm_idps_departure_months | Confirm in Remote KII. |
| Contradiction: Camp Committees | Check that if there are women's committees present that there are women present in committees. | cccm_committees_women cccm_committees.cccm_committees_3 | cccm_committees_women=="no" & cccm_committees.cccm_committees_3==1 | Confirm in Remote KII. |
| Contradiction: First and Second Most Common Region of Origin | Check that first and second most common region of origin of IDPs makes sense | cccm_idps_origin_first cccm_idps_origin_second | | Check with enumerators |
| More Than Three Check: Impediments to Accessing NFI Markets | Check that number of selected groups with difficulty accessing NFI markets is not always more than three. | nfi_access_impediments/impediments_populationgroups_1 nfi_access_impediments/impediments_populationgroups_2 nfi_access_impediments/impediments_populationgroups_3 nfi_access_impediments/impediments_populationgroups_4 nfi_access_impediments/impediments_populationgroups_5 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |
| More Than Three Check: Impediments to | Check that number of selected groups with difficulty accessing | water_access_impediments/impediments_populationgroups_1 water_access_impediments/impediments_populationgroups_2 | Number of selected options is not | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |

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| Accessing Water Sources | water sources is not always more than three. | water_access_impediments/impediments_populationgroups_3 water_access_impediments/impediments_populationgroups_4 water_access_impediments/impediments_populationgroups_5 | always more than three. | |
| More Than Three Check: Impediments to Accessing Latrines | Check that number of selected groups with difficulty accessing latrines is not always more than three. | sanitation_access_impediments/impediments_populationgroups_1 sanitation_access_impediments/impediments_populationgroups_2 sanitation_access_impediments/impediments_populationgroups_3 sanitation_access_impediments/impediments_populationgroups_4 sanitation_access_impediments/impediments_populationgroups_5 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |
| More Than Three Check: Impediments to Accessing Bathing Facilities | Check that number of selected groups with difficulty accessing bathing facilities is not always more than three. | hygiene_access_impediments/impediments_populationgroups_1 hygiene_access_impediments/impediments_populationgroups_2 hygiene_access_impediments/impediments_populationgroups_3 hygiene_access_impediments/impediments_populationgroups_4 hygiene_access_impediments/impediments_populationgroups_5 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |
| More Than Three Check: Impediments to Accessing Health Facilities | Check that number of selected groups with difficulty accessing health facilities is not always more than three. | health_access_impediments/impediments_populationgroups_1 health_access_impediments/impediments_populationgroups_2 health_access_impediments/impediments_populationgroups_3 health_access_impediments/impediments_populationgroups_4 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |

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| | | _4 health_access_impediments/impediments_populationgroups _5 | | |
| More Than Three Check: Impediments to Accessing Nutrition Services | Check that number of selected groups with difficulty accessing nutrition services is not always more than three. | nutrition_access_impediments/impediments_populationgroups_1 nutrition_access_impediments/impediments_populationgroups_2 nutrition_access_impediments/impediments_populationgroups_3 nutrition_access_impediments/impediments_populationgroups_4 nutrition_access_impediments/impediments_populationgroups_5 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |
| More Than Three Check: Impediments to Accessing Education Facilities | Check that number of selected groups with difficulty accessing education facilities is not always more than three. | education_access_impediments/impediments_populationgroups_1 education_access_impediments/impediments_populationgroups_2 education_access_impediments/impediments_populationgroups_3 education_access_impediments/impediments_populationgroups_4 education_access_impediments/impediments_populationgroups_5 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |
| More Than Three Check: Impediments to Accessing Support Activities | Check that number of selected groups with difficulty accessing support activities is not always more than three. | support_access_impediments/impediments_populationgroups_1 support_access_impediments/impediments_populationgroups_2 support_access_impediments/impediments_populationgroups_3 support_access_impediments/impediments_populationgroups_4 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |

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| | | support_access_impediments/impediments_populationgroups_5 | | |
| More Than Three Check: Impediments to Accessing Feedback Mechanisms | Check that number of selected groups with difficulty accessing feedback mechanisms is not always more than three. | aap_access_impediments/impediments_populationgroups_1 aap_access_impediments/impediments_populationgroups_2 aap_access_impediments/impediments_populationgroups_3 aap_access_impediments/impediments_populationgroups_4 aap_access_impediments/impediments_populationgroups_5 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with difficulty accessing services is understood. |
| More Than Three Check: Shelter Types | Check that number of selected shelter types present is not always more than three. | shelter_types/shelter_types_1 shelter_types/shelter_types_2 shelter_types/shelter_types_3 shelter_types/shelter_types_4 shelter_types/shelter_types_5 shelter_types/shelter_types_6 shelter_types/shelter_types_7 shelter_types/shelter_types_8 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with shelter types present is understood. |
| More Than Three Check: Health Facilities | Check that number of selected health facilities available is not always more than three. | health_facilities/health_facilities_1 health_facilities/health_facilities_2 health_facilities/health_facilities_3 health_facilities/health_facilities_4 health_facilities/health_facilities_5 health_facilities/health_facilities_6 health_facilities/health_facilities_7 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with health facilities present is understood. |
| More Than Three Check: Health Services | Check that number of selected health services available is not always more than three. | health_services/health_services_1 health_services/health_services_2 health_services/health_services_3 health_services/health_services_4 health_services/health_services_5 health_services/health_services_6 health_services/health_services_7 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with health services available is understood. |

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| More Than Three Check: Health Problems | Check that number of selected health services available is not always more than three. | health_problems/health_problems_1 health_problems/health_problems_2 health_problems/health_problems_3 health_problems/health_problems_4 health_problems/health_problems_5 health_problems/health_problems_6 health_problems/health_problems_7 health_problems/health_problems_8 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding groups with health problems common is understood. |
| More Than Three Check: Nutrition Services | Check that number of selected nutrition services available is not always more than three. | nutrition_services/nutritions_services_1 nutrition_services/nutritions_services_2 nutrition_services/nutritions_services_3 nutrition_services/nutritions_services_4 nutrition_services/nutritions_services_5 nutrition_services/nutritions_services_6 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding nutrition services available is understood. |
| More Than Three Check: Education Facilities | Check that number of selected education facilities available is not always more than three. | education_facilities/education_facilities_1 education_facilities/education_facilities_2 education_facilities/education_facilities_3 education_facilities/education_facilities_4 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding education facilities available is understood. |
| More Than Three Check: Protection Incidents | Check that number of selected protection incidents occurring is not always more than three. | protection_incidents/protection_incidents_1 protection_incidents/protection_incidents_2 protection_incidents/protection_incidents_3 protection_incidents/protection_incidents_4 protection_incidents/protection_incidents_5 protection_incidents/protection_incidents_6 protection_incidents/protection_incidents_7 protection_incidents/protection_incidents_8 protection_incidents/protection_incidents_9 protection_incidents/protection_incidents_10 protection_incidents/protection_incidents_11 protection_incidents/protection_incidents_12 protection_incidents/protection_incidents_13 protection_incidents/protection_incidents_14 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding protection incidents occurring is understood. |

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| More Than Three Check: Location of Protection Incidents | Check that number of selected location of protection incidents occurring is not always more than three. | protection_incidents_type/protection_incidents_type_1 protection_incidents_type/protection_incidents_type_2 protection_incidents_type/protection_incidents_type_3 protection_incidents_type/protection_incidents_type_4 protection_incidents_type/protection_incidents_type_5 protection_incidents_type/protection_incidents_type_6 protection_incidents_type/protection_incidents_type_7 protection_incidents_type/protection_incidents_type_8 protection_incidents_type/protection_incidents_type_9 protection_incidents_type/protection_incidents_type_10 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding location of protection incidents occurring is understood. |
| More Than Three Check: Support Activities | Check that number of selected support activities occurring is not always more than three. | support_activities/support_1 support_activities/support_2 support_activities/support_3 support_activities/support_4 support_activities/support_5 support_activities/support_6 support_activities/support_7 support_activities/support_8 support_activities/support_9 support_activities/support_10 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding support activities occurring is understood. |
| More Than Three Check: Information Sources | Check that number of selected information sources available is not always more than three. | aap_informationsources/aap_informationsources_1 aap_informationsources/aap_informationsources_2 aap_informationsources/aap_informationsources_3 aap_informationsources/aap_informationsources_4 aap_informationsources/aap_informationsources_5 aap_informationsources/aap_informationsources_6 aap_informationsources/aap_informationsources_7 aap_informationsources/aap_informationsources_8 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding information sources is understood. |
| More Than Three Check: Information Sources for Persons with Difficulties | Check that number of selected information sources for persons with difficulties available is not always more than three. | aap_informationsources_pwd/aap_informationsources_pwd_1 aap_informationsources_pwd/aap_informationsources_pwd_2 aap_informationsources_pwd/aap_informationsources_pwd_3 aap_informationsources_pwd/aap_informationsources_pwd_4 | Number of selected options is not always more than three. | Check with enumerator to make sure questions regarding information sources for persons with difficulties is understood. |

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| | | 4 aap_informationsources_pwd/aap_informationsources_pwd_5 | | |
| Observation Check: Public Lighting | Check that if enumerator reported observing public lighting that KI reported no public lighting. | shelter_publiclighting observation_publiclighting | shelter_publiclighting=="no" & observation_publiclighting=="yes" | Confirm in Remote KII |
| Observation Check: Shelter Damage | Check that if enumerator reported observing damaged shelters that KI reported no shelters damaged. | shelter_fire_destroyed shelter_flood_destroyed observation_shelters_fire | (shelter_fire_destroyed==0 shelter_fire_destroyed==NA shelter_flood_destroyed==0 shelter_flood_destroyed==NA) & observation_shelters_fire=="yes" | Confirm in Remote KII |
| Observation Check: Faecal Matter | Check that if enumerator reported observing faecal matter that KI reported no faecal matter around shelters. | sanitation_faecalmatter observation_faecalmatter | sanitation_faecalmatter=="no" & observation_faecalmatter=="yes" | Confirm in Remote KII |
| Observation Check: Burning Waste | Check that if enumerator reported observing burning waste that KI reported no burning waste in settlement. | sanitation_burningwaste observation_burningwaste | sanitation_burningwaste=="no" & observation_burningwaste=="yes" | Confirm in Remote KII |
| Other Check: CCCM - Management | Enumerator selected Other Option for CCCM Management question. | cccm_management_other | cccm_management.other==1 | Explain Other Option |

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| Other Check: CCCM - Committees | Enumerator selected Other Option for CCCM Committees question. | cccm_committees_other | cccm_committees. other==1 | Explain Other Option |
| Other Check: Evictions - Landowner | Enumerator selected Other Option for Evictions Landowner question. | evictions_landowner_other | evictions_landowne r=="other" | Explain Other Option |
| Other Check: Evictions - Tenure Agreement Holder | Enumerator selected Other Option for Evictions Tenure Agreement Holder question. | evictions_tenureagreement_holder_other | evictions_tenureagr eement_holder.oth er==1 | Explain Other Option |
| Other Check: Evictions - Rent Payment | Enumerator selected Other Option for Evictions Rent Payment question. | evictions_tenureagreement_rentpayment_other | evictions_tenureagr eement_rentpayme nt=="other" | Explain Other Option |
| Other Check: Water - Primary Source | Enumerator selected Other Option for Water Primary Source question. | water_sources_primary_other | water_sources_pri mary=="other" | Explain Other Option |
| Other Check: Water - Secondary Source | Enumerator selected Other Option for Water Secondary Source question. | water_sources_secondary_other | water_sources_sec ondary=="other" | Explain Other Option |
| Other Check: Water - Domestic Source | Enumerator selected Other Option for Water Domestic Source question. | water_sources_domestic_other | water_sources_do mestic=="other" | Explain Other Option |
| Other Check: Water - Treatment Methods | Enumerator selected Other Option for Water Treatment Methods question. | water_treatment_methods_other | water_treatment_m ethods.other==1 | Explain Other Option |
| Other Check: Health - Facilities | Enumerator selected Other Option for Health Facilities question. | health_facilities_other | health_facilities.oth er==1 | Explain Other Option |

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| Other Check: Health - Services | Enumerator selected Other Option for Health Services question. | health_services_other | health_services.other==1 | Explain Other Option |
| Other Check: Health - Problems | Enumerator selected Other Option for Health Problems question. | health_problems_other | health_problems.other==1 | Explain Other Option |
| Other Check: Nutrition - Services | Enumerator selected Other Option for Nutrition Services question. | nutrition_services_other | nutrition_services.other==1 | Explain Other Option |
| Other Check: Education - Facilities | Enumerator selected Other Option for Education Facilities question. | education_facilities_other | education_facilities.other==1 | Explain Other Option |
| Other Check: Food Security - Primary Source | Enumerator selected Other Option for Food Security Primary Source question. | foodsecurity_primary_other | foodsecurity_primary=="other" | Explain Other Option |
| Other Check: Protection - Incidents | Enumerator selected Other Option for Protection Incidents question. | protection_incidents_other | protection_incidents.other==1 | Explain Other Option |
| Other Check: Support - Activities | Enumerator selected Other Option for Support Activities question. | support_other | support.other==1 | Explain Other Option |
| Other Check: AAP - Information Sources | Enumerator selected Other Option for AAP Information Sources question. | aap_informationsources_other | aap_informationsources.other==1 | Explain Other Option |
| Other Check: AAP - Information Sources for Persons with Difficulties | Enumerator selected Other Option for AAP Information Sources for Persons with Difficulties question. | aap_informationsources_pwd_other | aap_informationsources_pwd.other==1 | Explain Other Option |

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| Other Check: AAP - Humanitarian Assistance Problems | Enumerator selected Other Option for AAP Humanitarian Assistance Problems question. | aap_humanitarianassistanceproblems_other | aap_humanitarianassistanceproblems. other==1 | Explain Other Option |
| Outlier Check: Shelters | Check if number of shelters provided is an outlier. | cccm_populationestimates_shelters | cccm_populationestimates_shelters %in% hfc_outlier_values_cccm_populationestimates_shelters | Confirm in Remote KII |
| Outlier Check: Families | Check if number of families provided is an outlier. | cccm_populationestimates_families | cccm_populationestimates_families %in% hfc_outlier_values_cccm_populationestimates_families | Confirm in Remote KII |
| Outlier Check: Individuals | Check if number of individuals provided is an outlier. | cccm_populationestimates_individuals | cccm_populationestimates_individuals %in% hfc_outlier_values_cccm_populationestimates_individuals | Confirm in Remote KII |
| Outlier Check: Site Duration | Check if number of months site has been established is an outlier. | cccm_site_duration | cccm_site_duration %in% hfc_outlier_values_cccm_site_duration | Confirm in Remote KII |
| Outlier Check: IDPs Arrived | Check if number of IDP families arrived is an outlier. | cccm_idps_arrived | cccm_idps_arrived %in% hfc_outlier_values_cccm_idps_arrived | Confirm in Remote KII |

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| Outlier Check: IDPs Departed | Check if number of IDP families departed is an outlier. | cccm_idps_departed | cccm_idps_departed %in% hfc_outlier_values_ cccm_idps_departed | Confirm in Remote KII |
| Outlier Check: Households Evicted | Check if number of households evicted is an outlier. | evictions_households | evictions_households %in% hfc_outlier_values_ evictions_households | Confirm in Remote KII |
| Outlier Check: Shelters destroyed by Fire | Check if number of shelters destroyed by fire is an outlier. | shelter_fire_destroyed | shelter_fire_destroyed %in% hfc_outlier_values_ shelter_fire_destroyed | Confirm in Remote KII |
| Outlier Check: Shelters destroyed by Flood | Check if number of shelters destroyed by flood is an outlier. | shelter_flood_destroyed | shelter_flood_destroyed %in% hfc_outlier_values_ shelter_flood_destroyed | Confirm in Remote KII |
| Outlier Check: Minimum Access Distance | Check if minimum distance (in minutes) to NFI markets is an outlier. | nfi_access_distance_min | nfi_access_distance_min %in% hfc_outlier_values_ nfi_access_distance_min | Confirm in Remote KII |
| Outlier Check: Maximum Access Distance | Check if maximum distance (in minutes) to NFI markets is an outlier. | nfi_access_distance_max | nfi_access_distance_max %in% hfc_outlier_values_ nfi_access_distance_max | Confirm in Remote KII |

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| Outlier Check: Water Sources Present | Check if number of water sources present is an outlier. | water_sources_present | water_sources_present %in% hfc_outlier_values_ water_sources_present | Confirm in Remote KII |
| Outlier Check: Minimum Access Distance | Check if minimum distance (in minutes) to water sources is an outlier. | water_access_distance_min | water_access_distance_min %in% hfc_outlier_values_ water_access_distance_min | Confirm in Remote KII |
| Outlier Check: Maximum Access Distance | Check if maximum distance (in minutes) to water sources is an outlier. | water_access_distance_max | water_access_distance_max %in% hfc_outlier_values_ water_access_distance_max | Confirm in Remote KII |
| Outlier Check: Toilets Male | Check if number of male toilets is an outlier. | sanitation_toilets_male | sanitation_toilets_male %in% hfc_outlier_values_ sanitation_toilets_male | Confirm in Remote KII |
| Outlier Check: Toilets Female | Check if number of female toilets is an outlier. | sanitation_toilets_female | sanitation_toilets_female %in% hfc_outlier_values_ sanitation_toilets_female | Confirm in Remote KII |
| Outlier Check: Toilets Non-Gendered | Check if number of non-gendered toilets is an outlier. | sanitation_toilets_nongendered | sanitation_toilets_nongendered %in% hfc_outlier_values_ sanitation_toilets_nongendered | Confirm in Remote KII |

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| Outlier Check: Bathing Facilities | Check if number of bathing facilities is an outlier. | hygiene_bathing_facilities | hygiene_bathing_facilities %in% hfc_outlier_values_hygiene_bathing_facilities | Confirm in Remote KII |
| Outlier Check: Minimum Access Distance to Latrines | Check if minimum distance (in minutes) to latrines is an outlier. | sanitation_access_distance_min | sanitation_access_distance_min %in% hfc_outlier_values_sanitation_access_distance_min | Confirm in Remote KII |
| Outlier Check: Maximum Access Distance to Latrines | Check if maximum distance (in minutes) to latrines is an outlier. | sanitation_access_distance_max | sanitation_access_distance_max %in% hfc_outlier_values_sanitation_access_distance_max | Confirm in Remote KII |
| Outlier Check: Minimum Access Distance to Bathing Facilities | Check if minimum distance (in minutes) to bathing facilities is an outlier. | hygiene_access_distance_min | hygiene_access_distance_min %in% hfc_outlier_values_hygiene_access_distance_min | Confirm in Remote KII |
| Outlier Check: Maximum Access Distance to Bathing Facilities | Check if maximum distance (in minutes) to bathing facilities is an outlier. | hygiene_access_distance_max | hygiene_access_distance_max %in% hfc_outlier_values_hygiene_access_distance_max | Confirm in Remote KII |
| Outlier Check: Minimum Access Distance to Health Facilities | Check if minimum distance (in minutes) to health facilities is an outlier. | health_access_distance_min | health_access_distance_min %in% hfc_outlier_values_ | Confirm in Remote KII |

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| | | | health_access_distance_min | |
| Outlier Check: Maximum Access Distance to Health Facilities | Check if maximum distance (in minutes) to health facilities is an outlier. | health_access_distance_max | health_access_distance_max %in% hfc_outlier_values_health_access_distance_max | Confirm in Remote KII |
| Outlier Check: Minimum Access Distance to Nutrition Services | Check if minimum distance (in minutes) to nutrition services is an outlier. | nutrition_access_distance_min | nutrition_access_distance_min %in% hfc_outlier_values_nutrition_access_distance_min | Confirm in Remote KII |
| Outlier Check: Maximum Access Distance to Nutrition Services | Check if maximum distance (in minutes) to nutrition services is an outlier. | nutrition_access_distance_max | nutrition_access_distance_max %in% hfc_outlier_values_nutrition_access_distance_max | Confirm in Remote KII |
| Outlier Check: Minimum Access Distance to Learning Facilities | Check if minimum distance (in minutes) to learning facilities is an outlier. | education_access_distance_min | education_access_distance_min %in% hfc_outlier_values_education_access_distance_min | Confirm in Remote KII |
| Outlier Check: Maximum Access Distance to Learning Facilities | Check if maximum distance (in minutes) to learning facilities is an outlier. | education_access_distance_max | education_access_distance_max %in% hfc_outlier_values_education_access_distance_max | Confirm in Remote KII |

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| Outlier Check: Minimum Access Distance | Check if minimum distance (in minutes) to food markets is an outlier. | foodsecurity_access_distance_min | foodsecurity_access_distance_min %in% hfc_outlier_values_ foodsecurity_access_distance_min | Confirm in Remote KII |
| Outlier Check: Maximum Access Distance | Check if maximum distance (in minutes) to food markets is an outlier. | foodsecurity_access_distance_min | foodsecurity_access_distance_min %in% hfc_outlier_values_ foodsecurity_access_distance_max | Confirm in Remote KII |

7. Monitoring & Evaluation Plan

| IMPACT Objective | External M&E Indicator | Internal M&E Indicator | Focal point | Tool | Will indicator be tracked? |
|---|--|---|-----------------------|--|--|
| Humanitarian stakeholders are accessing IMPACT products | Number of humanitarian organisations accessing IMPACT services/products Number of individuals accessing IMPACT services/products | # of downloads of DSA products from Resource Center | Country request to HQ | User_log | Yes |
| | | # of downloads of DSA products from Relief Web | Country request to HQ | | Yes |
| | | # of downloads of DSA products from Country level platforms | Country team | | Yes |
| | | # of page clicks on DSA products from REACH global newsletter | Country request to HQ | | Yes |
| | | # of page clicks on DSA products from REACH country newsletter, sendingBlue, bit.ly | Country team | | Yes |
| | | # of visits to the CCCM DSA website | Country request to HQ | | Yes |
| IMPACT activities contribute to better program implementation and coordination of the humanitarian response | Number of humanitarian organisations utilizing IMPACT services/products | # references in HPC documents (HNO, SRP, Flash appeals, Cluster/sector strategies) | Country team | Reference_log | CCCM DSA Master List |
| | | # references in single agency documents | | | CCCM DSA Master List |
| Humanitarian stakeholders are using IMPACT products | Humanitarian actors use IMPACT evidence/products as a basis for decision making, aid planning and delivery Number of humanitarian documents (HNO, HRP, cluster/agency strategic plans, etc.) directly informed by IMPACT products | Perceived relevance of IMPACT country-programs | Country team | Usage_Feedback and Usage_Survey template | Usage survey to be conducted at the end of the research cycle related to all outputs, targeting at least 10 partners |
| | | Perceived usefulness and influence of IMPACT outputs | | | |
| | | Recommendations to strengthen IMPACT programs | | | |
| | | Perceived capacity of IMPACT staff | | | |
| | | Perceived quality of outputs/programs | | | |
| | | Recommendations to strengthen IMPACT programs | | | |
| Humanitarian stakeholders are engaged in IMPACT programs throughout the research cycle | Number and/or percentage of humanitarian organizations directly contributing to IMPACT programs (<i>providing resources, participating to presentations, etc.</i>) | # of organisations providing resources (i.e.staff, vehicles, meeting space, budget, etc.) for activity implementation | Country team | Engagement_log | Number of areas covered by partners Number of partner staff conducting ToT |
| | | # of organisations/clusters inputting in research design and joint analysis | | | |
| | | # of organisations/clusters attending briefings on findings; | | | |

9. Dissemination Plan

| Products | Message | Stakeholder(s) | Means of dissemination | Purpose | Responsible | Timeframe |
|--|---|---|---|--|--------------------|---------------|
| 1 Presentations of findings | Population Estimates Severity of Needs by Cluster and District | Cluster partner agencies and decision makers | Presentation of findings at Inter Cluster Coordination Group Meetings and at cluster and inter-cluster meetings | Validate and establish consensus around main findings and conclusions | REACH focal point | By 16/04/2019 |
| 20+ Maps (17 Regional-level and 8-10 National-level) | Population Estimates Severity of Needs by Cluster and District | Cluster partner agencies and decision makers Regional government authorities | CCCM Web-Portal REACH Resource Centre | Inform Action: Inform humanitarian community to influence the response | GIS Officer | By 16/04/2019 |
| 1 Multi-sectoral factsheet at national level | Population Estimates Severity of Needs by Cluster and District | Cluster partner agencies and decision makers Regional government authorities | CCCM Web-Portal REACH Resource Centre | Inform Action: Inform humanitarian community to influence the response | Assessment Officer | By 16/04/2019 |
| 83 Multi-sectoral factsheets at regional level | Population Estimates Severity of Needs by Cluster and District | Cluster partner agencies and decision makers Regional government authorities | CCCM Web-Portal REACH Resource Centre | Inform Action: Inform humanitarian community to influence the response | Assessment Officer | By 16/04/2019 |

| | Internal milestones | External milestones |
|----------|---|---|
| January | Begin preliminary analysis | |
| February | Validate preliminary analysis | Share cleaned data-sets with cluster partners |
| March | Draft final analysis Triangulation of population estimates with cluster partners | |
| April | Validate final analysis Present findings to cluster partners | Publish final report Share maps, factsheets, and draft report with cluster partners, relevant government authorities |

Annex 1. Full List of Target Areas

| Region | District |
|------------------------|--------------------------|
| Bakool | Ceel Barde |
| Bakool | Waajid |
| Bakool | Xudur |
| Banadir (Mogadishu) | Mogadishu Abdulaziz |
| Banadir (Mogadishu) | Mogadishu Boondheere |
| Banadir (Mogadishu) | Mogadishu Daynile |
| Banadir (Mogadishu) | Mogadishu Dharkenley |
| Banadir (Mogadishu) | Mogadishu Hamar Jaab Jab |
| Banadir (Mogadishu) | Mogadishu Hamar Weyne |
| Banadir (Mogadishu) | Mogadishu Hawl Wadaag |
| Banadir (Mogadishu) | Mogadishu Heliwa |
| Banadir (Mogadishu) | Mogadishu Hodan |
| Banadir (Mogadishu) | Mogadishu Kahda |
| Banadir (Mogadishu) | Mogadishu Karaan |
| Banadir (Mogadishu) | Mogadishu Shangaani |
| Banadir (Mogadishu) | Mogadishu Shibis |
| Banadir (Mogadishu) | Mogadishu Waaberi |
| Banadir (Mogadishu) | Mogadishu Wadajir |
| Banadir (Mogadishu) | Mogadishu Wardhiigleey |
| Banadir (Mogadishu) | Mogadishu Yaaqshiid |
| Bari | Bandarbayla |
| Bari | Bossaso |
| Bari | Iskushuban |
| Bari | Qardho |
| Bay | Baydhaba |
| Bay | Buur Hakaba |
| Galgaduud | Cabuudwaaq |
| Galgaduud | Cadaado |
| Galgaduud | Dhuusamarreeb |
| Gedo | Baardheere |
| Gedo | Belet Xaawo |
| Gedo | Buur Dhuubo |
| Gedo | Ceel Waaq |
| Gedo | Doolow |
| Gedo | Garbahaarey |
| Gedo | Luuq |
| Hiraan | Belet Weyne |
| Hiraan | Mataban |
| Juba Hoose (Lower) | Afmadow |
| Juba Hoose (Lower) | Badhaadhe |
| Juba Hoose (Lower) | Jamaame |
| Juba Hoose (Lower) | Kismayo |
| Shabelle Hoose (Lower) | Afgooye |
| Shabelle Hoose (Lower) | Banadir |
| Shabelle Hoose (Lower) | Banadir |

| | |
|-------------------------|-------------------|
| Shabelle Hoose (Lower) | Banadir |
| Shabelle Hoose (Lower) | Marka |
| Shabelle Hoose (Lower) | Qoryooley |
| Shabelle Hoose (Lower) | Wanla Weyn |
| Shabelle Dhexe (Middle) | Balcad |
| Shabelle Dhexe (Middle) | Cadale |
| Shabelle Dhexe (Middle) | Jowhar |
| Mudug | Gaalkacyo (North) |
| Mudug | Gaalkacyo (South) |
| Mudug | Galdogob |
| Mudug | Hobyo |
| Mudug | Jariiban |
| Nugaal | Burtinle |
| Nugaal | Eyl |
| Nugaal | Garowe |
| Nugaal | Jariiban |

Annex 2. Description and Scoring of Indicators

| Severity Class | | None/ Minimal | Stress | Severe | Extreme | Catastrophic |
|-------------------------|---|--|---|--|--|-----------------------------|
| Indicators | | 1 | 2 | 3 | 4 | 5 |
| Shelter & NFI | | | | | | |
| Access and Availability | Access to and Availability of NFI and building material in local/nearby markets | Time to travel <= 30 minutes | 30 minutes < Time to travel <= 60 minutes | 60 minutes < Time to travel <= 180 minutes | 180 minutes < Time to travel OR No markets | |
| | Basic NFIs | ALL of the items from Shelter Cluster Standard NFI list available | AT LEAST ONE of the items from Shelter Cluster Standard NFI list available | | NONE of the items from Shelter Cluster Standard NFI list available | |
| Quality of Services | Shelter Occupation and Density | $SD \leq 1$ | $1 < SD \leq 1.5$ | $1.5 < SD \leq 2$ | $2 < SD \leq 2.25$ | $SD > 2.25$ |
| | Shelter Quality | Permanent/Transitional Shelters Present AND Emergency Shelters Not Present | Permanent/Transitional Shelters Present | | People living in Buul | People living in Open Areas |
| Situation and Needs | Shelter & NFI Support Activities | Support activities HAVE taken place | | Support activities HAVE NOT taken place | | |
| | Security of Tenure | No evictions AND Land tenure agreement exists AND Agreement is in written form | No evictions AND Land tenure agreement exists AND Agreement is in oral form | Has had evictions AND Land tenure agreement exists | Has had evictions AND Land tenure agreement does not exist | |
| | Hazards | No shelters destroyed by fires or floods | 20% or less of shelters destroyed by fires or floods | More than 20% and less than 50% of shelters destroyed by fires or floods | More than 50% of shelters destroyed by fires or floods | |
| | Public Lighting | Public lighting present | | Public lighting NOT present | | |

| Shelter & NFI | | | | | |
|-------------------------|---|---|--|--|---|
| Concept | Indicator | Description of indicator | Survey question | Survey response | Additional Calculation |
| Access and Availability | Access to and Availability of NFI and building material markets | Measure of presence of nearby NFI and building material markets | Within or around this site, is there access to an NFI and construction materials market? | Yes No | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of minimum estimate of time taken to travel to nearest NFI and building material market | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest NFI and construction materials market? | Number | |
| | | Measure of maximum estimate of time taken to travel to nearest NFI and building material market | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest NFI and construction materials market? | Number | |
| | Basic NFIs | Measure of types of NFIs available at markets | Which of these items are available for purchase at the market(s)? | Food Medicines Hygienic menstruation materials Local construction materials Clothes Sleeping mats Plastic sheets Blankets Jerry cans or buckets Wash basins Cooking utensils Soap Mosquito nets Solar lamp None of the above | Shelter Cluster Standard NFI List: Plastic sheet Blanket Sleeping mat Kitchen sets Mosquito net Solar lamp (torch) Jerry cans |
| | | | | | |
| Quality of Services | Settlement Occupation and Density | Measure of number of shelters in the settlement | How many shelters are present in this site? | Number | Shelter Density = (Number of Individuals) / (Number of shelters X 4) |
| | | Measure of number of households in the settlement | How many households are present in this site? By household, people living | Number | |

| | | | | | |
|----------------------------|----------------------------------|---|---|--|---|
| | | | together sharing common resources. | | |
| | | Measure of number of individuals in the settlement | How many individuals are present in this site? | Number | |
| | Shelter Quality | Measure of use of types of shelters present in the settlement | What are the most common types of shelters present in this site? | Buul Timber and plastic sheet with CGI roof Shelter constructed using shelter kit CGI sheet wall and roof Mud and stick wall with CGI roof Plywood wall with CGI roof Stone/brick wall with CGI roof: Type 1 Stone/brick wall with CGI roof: Type 2 None of the above | Permanent Shelter Stone/brick wall with CGI roof: Type 1 Stone/brick wall with CGI roof: Type 2 Transitional Shelter Plywood wall with CGI roof Timber and plastic sheet with CGI roof Shelter constructed using shelter kit CGI sheet wall and roof Mud and stick wall with CGI roof Emergency Shelter Buul |
| Situation and Needs | Shelter & NFI Support Activities | Measure of support activities that have taken place at settlement | In the past 3 months, have any of the following activities taken place in this site?: | Provision of shelter kits Provision of NFI kits/items Provision of food distribution Construction / rehabilitation of water sources Construction / repair of latrines Distribution of hygiene kits (jerry cans for storage / transport, soap / hygienic menstrual materials) Cash distribution Nutrition counselling MUAC screening Distribution of therapeutic foods or nutritional supplements Awareness campaign advocating proper WASH practices | Shelter & NFI Support Activities: Provision of shelter kits Provision of NFI kits/items |

| | | | | | |
|--|--------------------|---|---|---|--|
| | | | | Vaccination campaigns or any other health-related campaigns | |
| | Security of Tenure | Measure of whether land tenure agreement exists | Is there an existing land tenure agreement between residents' and the land owner of the site? | Yes No | |
| | | Measure of whether land tenure agreement exists in written or oral form | Is the agreement in written or oral form? | Written Oral | |
| | | Measure of whether evictions have occurred | In the past 3 months, has this site been issued an eviction notice? | Yes No Do not know | |
| | Hazards | Measure of whether fires have occurred | In the past 3 months, have fires occurred in this site? | Yes No | |
| | | Measure of how many shelters have been destroyed by fire | In the past 3 months, how many shelters have been destroyed by fires in this site? | Number | |
| | | Measure of whether floods have occurred | In the past year, has flooding occurred in this site? | Yes No | |
| | | Measure of how many shelters have been destroyed by flood | In the past years, how many shelters have been destroyed by flooding in this site? | Number | |
| | Public Lighting | Measure of whether public lighting is present | Is there any public lighting throughout the site? | Yes No | |

| Severity Class | | None/ Minimal | Stress | Severe | Extreme | Catastrophic |
|-------------------------|---|--|--|--|--|--------------|
| Indicators | | 1 | 2 | 3 | 4 | 5 |
| WASH | | | | | | |
| Access and Availability | Access to and Availability of functional water sources (Highest score based on any condition) | Time to travel <= 15 minutes OR Ratio of People per Water Source <= 500 | 15 minutes < Time to travel <= 30 minutes OR 500 < Ratio of People per Water Source <= 600 | 30 minutes < Time to travel <= 60 minutes OR 600 < Ratio of People per Water Source <= 750 | 60 minutes < Time to travel OR 750 < Ratio of People per Water Source | |
| | Access to and Availability of functional toilets (Highest score based on any condition) | Time to travel <= 15 minutes OR Ratio of People per Toilet <= 20 | 15 minutes < Time to travel <= 30 minutes OR 20 < Ratio of People per Toilet <= 24 | 30 minutes < Time to travel <= 60 minutes OR 24 < Ratio of People per Toilet <= 30 | 60 minutes < Time to travel OR 30 < Ratio of People per Toilet | |
| Quality of Services | Access to and Availability of bathing facilities (Highest score based on any condition) | Time to travel <= 15 minutes OR Ratio of People per Bathing Facility <= 20 | 15 minutes < Time to travel <= 30 minutes OR 20 < Ratio of People per Bathing Facility <= 24 | 30 minutes < Time to travel <= 60 minutes OR 24 < Ratio of People per Bathing Facility <= 30 | 60 minutes < Time to travel OR 30 < Ratio of People per Bathing Facility | |
| | Water - Primary, Secondary, and Domestic Water Sources | ALL Water Sources are IMPROVED WATER SOURCES | TWO water sources are IMPROVED WATER SOURCES | AT LEAST ONE water source is an IMPROVED WATER SOURCE | ALL water sources are SURFACE WATER | |
| Situation and Needs | Sanitation - Toilets with locks | 76 to 100% of toilets have locks OR | 51 to 75% of toilets have locks OR | 26 to 50% of toilets have locks OR | 0 to 25% of toilets have locks OR | |
| | Sanitation - Access to toilets with lights | 76 to 100% of toilets have lights OR | 51 to 75% of toilets have lights OR | 26 to 50% of toilets have lights OR | 0 to 25% of toilets have lights OR | |
| | Hygiene - Toilets with handwashing facilities | 76 to 100% of toilets have handwashing facilities | 51 to 75% of toilets have handwashing facilities | 26 to 50% of toilets have handwashing facilities | 0 to 25% of toilets have handwashing facilities | |
| | WASH Support Activities | Support activities HAVE taken place | | Support activities HAVE NOT taken place | | |

| WASH | | | | | |
|-------------------------|--|--|---|--|---|
| Concept | Indicator | Description of indicator | Survey question | Survey response | Additional Calculation |
| Access and Availability | Access to and Availability of functional water sources | Measure of presence of nearby functional water sources | Within or around this site, how many water sources are present? | Number | Maximum Number of People per Water Source 500 people per hand pump based on a flow of 17 liters/minute Ratio of People per Water Source = Number of Individuals / (Number of Water Sources X Percentage of Water Sources Functioning) |
| | | | What percentage of these water sources are functional? Flowing regularly and freely | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | |
| | | Measure of minimum estimate of time taken to travel to nearest functional water source | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest working water source? | Number | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of maximum estimate of time taken to travel to nearest functional water source | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest working water source? | Number | |
| | Access to and Availability of functional toilets | Measure of presence of nearby functional toilets | Within or around this site, is there access to an functional toilet? | Yes No | Sphere Standards: 20 people per toilet Ratio of People per Toilet = Number of Individuals / (Number of Male toilets + Number of Female toilets + Number of Non-Gendered Toilets) Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |

| | | | | | |
|--|--|--|--|-----------|---|
| | | Measure of number of male toilets available | How many of the following are on site and functioning: Male toilets | Number | |
| | | Measure of number of female toilets available | How many of the following are on site and functioning: Female toilets | Number | |
| | | Measure of number of non-gendered toilets available | How many of the following are on site and functioning: Non-gendered toilets | Number | |
| | | Measure of minimum estimate of time taken to travel to nearest functional toilet | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest functional toilet? | Number | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of maximum estimate of time taken to travel to nearest functional toilet | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest functional toilet? | Number | |
| | Access to and Availability of bathing facilities | Measure of presence of nearby bathing facilities | Within or around this site, is there access to an bathing facility? | Yes No | Ratio of People per Bathing Facility = Number of Individuals / (Number of Bathing Facilities) Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of minimum estimate of time taken to travel to nearest bathing facility | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest bathing facility? | Number | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of maximum estimate of time taken to travel to nearest bathing facility | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest NFI and construction materials market? | Number | |

| | | | | | |
|---------------------|---|---|---|--|---|
| Quality of Services | Water - Primary water sources | Measure of type of primary source of water | What is the primary source of water for residents in this site? (used for drinking) | Water kiosk Vendors or shop Piped system Protected well without hand pump Protected well with hand pump Unprotected well Berkad River Water tank and tap Water trucking distribution point Borehole with submersible pump Other | Improved Water Source: Piped system Boreholes Protected wells Water tank and tap Unimproved Water Source: Unprotected well Water trucking Water kiosks Vendors or shops Berkad Surface water: River, pond or dam |
| | Water - Secondary water sources | Measure of type of secondary source of water | What is the secondary source of water for residents in this site? (used for drinking) | | |
| | Water - Domestic water sources | Measure of type of domestic source of water | What is the main domestic water source? (used for cooking, cleaning, bathing, NOT for agriculture or livestock) | | |
| | Sanitation - Toilets with locks | Measure of percentage of toilets with locks on the inside | What percentage of toilets have locks on the inside? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Sphere Standards |
| | Sanitation - Access to toilets with lights | Measure of percentage of toilets with internal lighting | What percentage of toilets have internal lighting? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Sphere Standards |
| | Hygiene - Toilets with handwashing facilities | Measure of percentage of toilets with handwashing facilities | What percentage of toilets have handwashing facilities? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | Sphere Standards |
| Situation and Needs | WASH Support Activities | Measure of support activities that have taken place at settlement | In the past 3 months, have any of the following activities taken place in this site?: | Provision of shelter kits Provision of NFI kits/items Provision of food distribution Construction / rehabilitation of water sources Construction / repair of latrines Distribution of hygiene kits (jerry cans for storage / transport, soap / hygienic menstrual materials) Cash distribution | WASH Support Activities: Construction / rehabilitation of water sources Construction / repair of latrines Distribution of hygiene kits (jerry cans for storage / transport, soap / hygienic menstrual materials) Awareness campaign advocating proper WASH practices |

| | | | | | |
|--|---|--|--|---|--|
| | | | | Nutrition counselling MUAC screening Distribution of therapeutic foods or nutritional supplements Awareness campaign advocating proper WASH practices Vaccination campaigns or any other health-related campaigns | |
| | Water - Water Treatment | Measure of whether residents treat their water | Do residents in this site treat their water? | Yes No | |
| | | Measure of how residents treat their water | How do they treat water? | Boiling Cloth filter Other kind of filter (membrane, ceramic, or commercial filter) Chlorine tablets/aquatabs Other | Acceptable Water Treatment Boiling Chlorine tablets/aquatabs |
| | Sanitation - Presence of Open Defecation | Measure of whether faecal matter is visible around households or within the settlement | Is faecal matter visible around households or within the settlement? | Yes No | |
| | Sanitation - Disposal of Solid Waste | Measure of how solid waste is disposed of | How is solid waste mainly disposed of by residents of this site? | Household or communal covered pit Burial if in designated areas far from houses and water sources In open Burning - near or far from home None of the above Do not know Other | Acceptable Solid Waste Disposal Household or communal covered pit Burial if in designated areas far from houses and water sources |

| Severity Class | | None/ Minimal | Stress | Severe | Extreme | Catastrophic |
|-------------------------|---|--|---|--|--|--------------|
| Indicators | | 1 | 2 | 3 | 4 | 5 |
| Health | | | | | | |
| Access and Availability | Access to and Availability of Health Facilities | Time to travel <= 30 minutes | 30 minutes < Time to travel <= 60 minutes | 60 minutes < Time to travel <= 180 minutes | 180 minutes < Time to travel OR None available | |
| | Health Facilities Available | ANY Standard Health Facilities available | | NO Standard Health Facilities available | NO Health Facilities of any kind available | |
| Quality of Services | Health Services Available | ALL Primary Health Services available | SOME Primary Health Services available | NO Primary Health Services available | NO Health Services of any kind available | |
| | Skilled Health Personnel for Women Giving Birth | Yes | | No | | |
| Situation and Needs | Health Support Activities | Yes | | No | | |
| | Health Problems Common | NO Common Causes of Morbidity Reported | | SOME Common Causes of Morbidity Reported | ALL Common Causes of Morbidity Reported | |

| Health | | | | | |
|-------------------------|---|--|--|---|---|
| Concept | Indicator | Description of indicator | Survey question | Survey response | Additional Calculation |
| Access and Availability | Access to and Availability of Health Facilities | Measure of minimum estimate of time taken to travel to nearest health facility | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest health facility? | Number | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of maximum estimate of time taken to travel to nearest health facility | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest health facility? | Number | |
| | Health Facilities Available | Measure of types of health facilities available | Within or around this site, what types of health facilities are available? | First aid post Pharmacy District hospital Mobile clinic Private clinic NGO clinic Government run clinic None of the above Other | Standard Health Facilities District hospital Private clinic NGO clinic Government run clinic Sub-standard Pharmacy |
| | Health Services Available | Measure of types of health services available | Within or around this site, what types of health services are available? | Basic primary healthcare Vaccinations Child healthcare Maternal healthcare Nutrition counselling / services Mental health services Other | Primary Health Services Basic primary healthcare Vaccinations Child Healthcare Maternal Healthcare Nutrition counselling / services |
| | Skilled Health Personnel for Women Giving Birth | Measure of whether skilled health personnel are available for women giving birth | Are women giving birth while attended by skilled health personnel (trained midwife, doctor, nurse)? | Yes No | |
| Situation and Needs | Health Support Activities | Measure of support activities that have taken place at settlement | In the past 3 months, have any of the following activities taken place in this site?: | Provision of shelter kits Provision of NFI kits/items Provision of food distribution Construction / rehabilitation of water sources Construction / repair of latrines | Health: Vaccination campaigns or any other health-related campaigns |

| | | | | | |
|--|-------------------------------|--|--|---|--|
| | | | | Distribution of hygiene kits (jerry cans for storage / transport, soap / hygienic menstrual materials) Cash distribution Nutrition counselling MUAC screening Distribution of therapeutic foods or nutritional supplements Awareness campaign advocating proper WASH practices Vaccination campaigns or any other health-related campaigns | |
| | Health Problems Common | Measure of types of health problems common | What types of health problems are common amongst residents in this site? | Malaria Fever Acute watery diarrhoea / Cholera Respiratory problems Malnutrition (diagnosed by qualified health or nutrition practitioner) Gastrointestinal problems Injuries/Wounds Measles Other | Common Causes of Morbidity Malaria Acute watery diarrhoea / Cholera Measles |

| Severity Class | | None/ Minimal | Stress | Severe | Extreme | Catastrophic |
|-------------------------|--|---------------------------------|---|--|--|--------------|
| Indicators | | 1 | 2 | 3 | 4 | 5 |
| Nutrition | | | | | | |
| Access and Availability | Access to and Availability of Nutrition Services | Time to travel <= 30 minutes | 30 minutes < Time to travel <= 60 minutes | 60 minutes < Time to travel <= 180 minutes | 180 minutes < Time to travel OR None available | |
| | Distribution of Nutrition Items | ALL Nutrition Items distributed | SOME nutrition items distributed | NO Nutrition Items distributed | | |
| Situation and Needs | Nutrition Support Activities | Yes | No | | | |

| Nutrition | | | | | |
|-------------------------|--|--|--|---|---|
| Concept | Indicator | Description of indicator | Survey question | Survey response | Additional Calculation |
| Access and Availability | Access to and Availability of Nutrition Services | Measure of types of nutrition services available | Within or around this site, where do residents go for nutrition services? | Stabilization Centre (SC) Outpatient Therapeutic Care Programme (OTP) Targetted Supplementary Feeding Programme (TSFP) Blanket Supplementary Feeding programme (BSFP) Wet Feeding; Infant and Young Child Feeding (ICYF) Micronutrient Supplementation None of the above Other | |
| | | Measure of minimum estimate of time taken to travel to nearest nutrition service | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest nutrition service? | Number | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of maximum estimate of time taken to travel to nearest nutrition service | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest nutrition service? | Number | |
| | Distribution of Nutrition Items | Measure of types of nutrition items distributed | In this site, have you ever seen residents with the following: | MUAC tape Ready-to-Use Therapeutic Food and Supplementary Food (RUTF & RUSF) (example: Plumpy'Nut, Plumpy'Sup) Super Cereal Plus Therapeutic milk products (F75 or F100) None of the above | |
| Situation and Needs | Nutrition Support Activities | Measure of support activities that have taken place at settlement | In the past 3 months, have any of the following activities taken place in this site?: | Provision of shelter kits Provision of NFI kits/items Provision of food distribution Construction / rehabilitation of water sources | Nutrition: Nutrition counselling MUAC screening Distribution of therapeutic |

| | | | | | |
|--|--|--|--|---|----------------------------------|
| | | | | Construction / repair of latrines Distribution of hygiene kits (jerry cans for storage / transport, soap / hygienic menstrual materials) Cash distribution Nutrition counselling MUAC screening Distribution of therapeutic foods or nutritional supplements Awareness campaign advocating proper WASH practices Vaccination campaigns or any other health-related campaigns | foods or nutritional supplements |
|--|--|--|--|---|----------------------------------|

| Severity Class | | None/ Minimal | Stress | Severe | Extreme | Catastrophic |
|-------------------------|---|---|---|--|---|--------------|
| Indicators | | 1 | 2 | 3 | 4 | 5 |
| Education | | | | | | |
| Access and Availability | Access to and Availability of Learning Facilities | Time to travel <= 30 minutes | 30 minutes < Time to travel <= 60 minutes | 60 minutes < Time to travel <= 90 minutes | 90 minutes < Time to travel OR None available | |
| | Learning Facilities Available | Primary and Secondary Learning Facilities Available | Primary Learning Facilities Available | ONLY Basic Literacy and Numeracy Classes OR Quoranic Learning Facilities available | NO Learning Facilities of any kind available | |
| Quality of Services | Gender segregated latrines | 76 to 100% | 51 to 75% | 26 to 50% | 0 to 25% | |
| | Fences and clear demarcation | 76 to 100% | 51 to 75% | 26 to 50% | 0 to 25% | |

| Education | | | | | |
|-------------------------|---|--|--|--|--|
| Concept | Indicator | Description of indicator | Survey question | Survey response | Additional Calculation |
| Access and Availability | Access to and Availability of Learning Facilities | Measure of types of health facilities available | Within or around this site, what types of schools or learning facilities are available with children attending classes regularly? | Primary Secondary Quoranic Basic Literacy and Numeracy Classes | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of minimum estimate of time taken to travel to nearest health facility | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest learning facility? | Number | |
| | | Measure of maximum estimate of time taken to travel to nearest health facility | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest learning facility? | Number | |
| Quality of Services | Gender segregated latrines | Measure of percentage of schools with gender segregated latrines | What percentage of these schools or learning facilities have gender segregated latrines? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | |
| | Fences and clear demarcation | Measure of percentage of schools with fences and clear demarcation | What percentage of these schools or learning facilities have fences and clear demarcation? | 0 to 25% 26 to 50% 51 to 75% 76 to 100% | |

| Severity Class | | None/ Minimal | Stress | Severe | Extreme | Catastrophic |
|-------------------------|--|--|---|--|--|--------------|
| Indicators | | 1 | 2 | 3 | 4 | 5 |
| Food Security | | | | | | |
| Access and Availability | Access to and Availability of Food Markets | Time to travel <= 30 minutes | 30 minutes < Time to travel <= 60 minutes | 60 minutes < Time to travel <= 180 minutes | 180 minutes < Time to travel OR None available | |
| Quality of Services | Primary and Secondary Food Sources | ALL Food Sources are HIGH SECURITY FOOD SOURCES | AT LEAST ONE Food Source is a HIGH SECURITY FOOD SOURCE | | BOTH Food Sources are LOW SECURITY FOOD SOURCES | |
| Situation and Needs | Food Security Support Received | Support activities HAVE taken place | | Support activities HAVE NOT taken place | | |
| | Land Available | Residents ARE involved in day labor or agro-pastoralist activities | | Residents ARE NOT involved in day labor or agro-pastoralist activities | | |

| Food Security | | | | | |
|-------------------------|--|--|--|--|--|
| Concept | Indicator | Description of indicator | Survey question | Survey response | Additional Calculation |
| Access and Availability | Access to and Availability of Food Markets | Measure of presence of food market within or around site | Within or around this site, is there access to a food market? | Yes No | Time to Travel = (Minimum amount of time + Maximum amount of time) / 2 |
| | | Measure of minimum estimate of time taken to travel to nearest food market | For residents of this site, what is the minimum amount of time (in minutes) that it would take to walk to the nearest food market? | Number | |
| | | Measure of maximum estimate of time taken to travel to nearest food market | For residents of this site, what is the maximum amount of time (in minutes) that it would take to walk to the nearest food market? | Number | |
| Quality of Services | Primary Food Source | Measure of type of primary source of food | What is the primary source of food for most residents in this site? | Market purchases Household production Own livestock | Sources of Food (High Security) Market purchases Household production Own livestock Fishing / Foraging / Hunting Sources of Food (Low Security) Food assistance from NGO aid Food assistance from government aid Gifts from family / friends / neighbors Borrowing/Debts Trade for labour Other |
| | Secondary Food Source | Measure of type of secondary source of food | What is the secondary source of food for most residents in this site? | Fishing / Foraging / Hunting Food assistance from NGO aid Food assistance from government aid Gifts from family / friends / neighbors Borrowing/Debts Trade for labour Other | |
| Situation and Needs | Support Received | Measure of support activities that have taken place at settlement | In the past 3 months, have any of the following activities taken place in this site?: | Provision of shelter kits Provision of NFI kits/items Provision of food distribution Construction / rehabilitation of water sources Construction / repair of latrines | Food Security: Provision of food distribution Distribution of therapeutic foods or nutritional supplements |

| | | | | | |
|--|-----------------------|---|--|---|--|
| | | | | Distribution of hygiene kits (jerry cans for storage / transport, soap / hygienic menstrual materials) Cash distribution Nutrition counselling MUAC screening Distribution of therapeutic foods or nutritional supplements Awareness campaign advocating proper WASH practices Vaccination campaigns or any other health-related campaigns | |
| | Land Available | Measure of whether residents are involved in day labor or agro-pastoralist activities | Are the majority of residents in this site involved in day labor or agro-pastoralist activities? | Daily wage labour Pastoralism Livestock None of the above | |
| | | Measure of whether land is available for raising livestock | Is there land available to residents in this site for raising livestock? | Yes No | |
| | | Measure of whether land is available for agriculture / cultivation purposes | Is there land available to residents in this site for agriculture / cultivation purposes? | Yes No | |

| Severity Class | | None/ Minimal | Stress | Severe | Extreme | Catastrophic |
|-------------------------|---|---------------|---|---|------------------------------------|--------------|
| Indicators | | 1 | 2 | 3 | 4 | 5 |
| Protection | | | | | | |
| Access and Availability | Safe Spaces | Yes | | No | | |
| | | Yes | | No | | |
| | | Yes | | No | | |
| Situation and Needs | Types of safety and security incidents | None | Less than a quarter of options selected | Quarter to half of options selected | More than half of options selected | |
| | Location of safety and security incidents | None | Less than a quarter of options selected | Quarter to half of options selected | More than half of options selected | |
| | Restrictions to Movement | No | Yes, only during the day or only during the night | Yes, both during the day and during the night | | |

| Protection | | | | | |
|-------------------------|--|---|--|---|------------------------|
| Concept | Indicator | Description of indicator | Survey question | Survey response | Additional Calculation |
| Access and Availability | Safe Spaces | Measure of whether covered spaces are present | Are there any covered shared site spaces in the site? | Yes No | |
| | | Measure of whether designated spaces where women and girls can gather are present | Is there a designated space where women and girls can gather (women's center, women's and girls' safe space, etc.) in this site? | Yes No | |
| | | Measure of whether child friendly spaces are present | Are there any child friendly spaces in this site where children can meet and play with or without supervision (park, gym, playground, etc.)? | Yes No | |
| Situation and Needs | Types of safety and security incidents that have occurred | Measure of types of safety and security incidents that have occurred | In the past 3 months, what are the types of incidents that have occurred in this site? | Armed violence Incidents due to UXO Disappearances Gender based violence Arrests and detention Abductions Displacement Forced military recruitment Friction between community and surrounding host communities Violence during aid distribution Exploitation and abuse related to access to assistance Cases of unaccompanied and separated children Land grabbing Destruction of property Denied access to justice None of the above Other | |
| | Location of safety and security incidents that have occurred | Measure of locations where safety and security incidents have occurred | In the past 3 months, have you heard of any of the following safety and security | In shelters When leaving settlement/town | |

| | | | | | |
|--|---------------------------------|--|--|---|--|
| | | | incidents occurring in this site: | On the way or at NFI markets On the way or at food markets On the way or at water sources On the way or at latrines On the way or at bathing facilities On the way or at schools or education facilities On the way or at health facilities At humanitarian aid distribution points No answer | |
| | Restrictions to Movement | Measure of whether there are restrictions of movement during the day | Are there restrictions of movement during the day? | Yes No | |
| | | Measure of whether there are restrictions of movement during the night | Are there restrictions of movement during the night? | Yes No | |