**SITUATION OVERVIEW**

This RNA was conducted using a key informant (KI) methodology at the community level. REACH enumerators based in Idleb and partners’ enumerators based in Northern Aleppo interviewed 1 KI per community, either in-person or remotely, relying on REACH’s extensive KI network in NWS. The situation overview presents information gathered from 754 communities across Greater Idleb and Northern Aleppo. Data was collected between 9-11 February 2023 from 604 KIs, with a second round of data collection conducted by Save the Children’s third-party monitors between 7-9 March 2023 from 150 KIs in five sub-districts that were not assessed in the first round.

All indicators refer to the situation since the earthquake. Findings are indicative rather than representative and should not be generalised across the population and the region.

**METHODOLOGY OVERVIEW**

This RNA was conducted using a key informant (KI) methodology at the community level. REACH enumerators based in Idleb and partners’ enumerators based in Northern Aleppo interviewed 1 KI per community, either in-person or remotely, relying on REACH’s extensive KI network in NWS. The situation overview presents information gathered from 754 communities across Greater Idleb and Northern Aleppo. Data was collected between 9-11 February 2023 from 604 KIs, with a second round of data collection conducted by Save the Children’s third-party monitors between 7-9 March 2023 from 150 KIs in five sub-districts that were not assessed in the first round. All indicators refer to the situation since the earthquake. Findings are indicative rather than representative and should not be generalised across the population and the region.

You can keep up-to-date with REACH’s latest earthquake-related information products by checking our IMPACT communications thread.

1. Al Jazeera (February 25, 2023). Death toll climbs above 50,000 after Turkey, Syria earthquakes.
3. Additional sub-districts assessed in the second round were: Bulbul, Ghandorah, Jarablus, Sharan and Sheikh El-Hadid.
### Communities Affected by the Earthquakes and IDP Arrivals, as Reported by KIs

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40%</td>
<td>Direct impacts only</td>
</tr>
<tr>
<td>8%</td>
<td>New IDP arrivals only</td>
</tr>
<tr>
<td>40%</td>
<td>Both</td>
</tr>
<tr>
<td>12%</td>
<td>Neither</td>
</tr>
</tbody>
</table>

All assessed communities where KIs reported direct impacts had composite damage scores above zero, reflecting that at least some degree of damage had occurred to buildings and/or key infrastructures.

### Priority Needs for Affected Households

#### Overall Most Commonly Reported Priority Needs for the Pre-earthquake Population

- **1. Winterisation** 65%
- **2. MPCA** 64%
- **3. Shelter** 42%

#### Overall Most Commonly Reported Priority Needs for Newly-arrived IDPs

- **1. Shelter** 75%
- **2. Winterisation** 61%
- **3. MPCA** 58%

### Repair, Rehabilitation, and Debris Removal Needs

#### Overall Most Commonly Reported Priority Needs for Non-shelter-related Repair and Rehabilitation

- **1. Water supply network** 41%
- **2. Education facilities** 41%
- **3. Telecomms and internet** 38%
- **4. Healthcare facilities** 35%
- **5. Sanitation infrastructures** 32%

37% of communities reported the need for assistance to clean up debris/rubble, created by the earthquake.

### Ability of Households to Cook and Store Food

- **52%** Majority can both cook and store food
- **31%** Majority can cook food only
- **13%** Majority can neither cook or store food
- **4%** Majority can store food only

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3 KIs were asked to select a first, second, and third highest priority needs in their communities. The ranking shows the overall priority need refers to the frequency a sector was selected across all three categories (first, second or third highest priority).

3 KIs could select three answers, thus findings might exceed 100%.

4 Pre-earthquake population includes all persons who were residing in the assessed communities at the time of the earthquakes, including resident/host community members and IDPs.
MAP 1: PROPORTION OF COMMUNITIES WHERE FOOD WAS REPORTED AS ONE OF THE TOP 3 PRIORITY NEEDS FOR PRE-EARTHQUAKE POPULATIONS

As reported by KIs in assessed communities
MAP 2: PROPORTION OF COMMUNITIES WHERE FOOD WAS REPORTED AS ONE OF THE TOP 3 PRIORITY NEEDS FOR NEWLY ARRIVED IDPs

As reported by KIs in assessed communities

% of communities in which KIs reported food as one of the top 3 priority needs for newly arrived IDPs

- 1 - 20% (3)
- 20.1 - 40% (3)
- 40.1 - 60% (8)
- 60.1 - 80% (0)
- 80.1 - 100% (13)

Assessed sub-districts with less than 30% coverage

Governorate
Area of influence
M4/M5 Highway
MAP 3: PROPORTION OF COMMUNITIES WHERE DRINKING WATER WAS REPORTED AS ONE OF THE TOP 3 PRIORITY NEEDS FOR PRE-EARTHQUAKE POPULATIONS

As reported by KIs in assessed communities
MAP 4: PROPORTION OF COMMUNITIES WHERE **DRINKING WATER** WAS REPORTED AS ONE OF THE TOP 3 PRIORITY NEEDS FOR NEWLY ARRIVED IDPs

As reported by KIs in assessed communities

% of communities in which KIs reported drinking water as one of the top 3 priority needs for newly arrived IDPs

- 0% (27)
- 1 - 5% (3)
- 5.1 - 15% (2)
- 15.1 - 20% (3)
MAP 5: PROPORTION OF COMMUNITIES WHERE FIRST AID AND EMERGENCY CARE WAS REPORTED AS ONE OF THE TOP 3 PRIORITY NEEDS FOR PRE-EARTHQUAKE POPULATIONS

As reported by KIs in assessed communities
MAP 6: PROPORTION OF COMMUNITIES WHERE FIRST AID AND EMERGENCY CARE WAS REPORTED AS ONE OF THE TOP 3 PRIORITY NEEDS FOR NEWLY ARRIVED IDPs

As reported by KIs in assessed communities
NEW IDP ARRIVALS

16,000

New IDP households reportedly arrived in assessed communities between the first earthquake and data collection.

**Estimated post-earthquake IDP household arrivals to assessed communities** (as reported by KIs who were able to estimate the number of IDP HH arrivals; 326 communities):

<table>
<thead>
<tr>
<th>Sub-district of Origin</th>
<th>Sub-district of Arrival</th>
<th># of assessed communities in sub-district of arrival where KIs reported the main community of origin in the sub-district of origin</th>
<th>For these communities, estimated total number of IDP arrivals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darkosh</td>
<td>Salqin</td>
<td>25</td>
<td>1,400</td>
</tr>
<tr>
<td>Salqin</td>
<td>Jandairis</td>
<td>21</td>
<td>1,200</td>
</tr>
<tr>
<td>Maaret Tamsrin</td>
<td>Jandairis</td>
<td>19</td>
<td>800</td>
</tr>
<tr>
<td>Afrin</td>
<td>Afrin</td>
<td>14</td>
<td>100</td>
</tr>
<tr>
<td>Jandairis</td>
<td>Bulbul</td>
<td>12</td>
<td>200</td>
</tr>
<tr>
<td>Jandairis</td>
<td>Sharan</td>
<td>12</td>
<td>200</td>
</tr>
</tbody>
</table>

**Estimated IDP movements between sub-districts since the earthquakes** (based on KI information on the primary community of origin; 319 assessed communities with new arrivals and where origin was known):

- 74% of communities reported that the main community of origin for new IDPs was outside of their sub-district.

**Average estimated proportion of newly arrived IDPs by type of shelter they were residing in at the time of data collection** (as reported by KIs in 354 communities that received new IDPs):

- Hosted for free by friends/relatives: 70%
- Residing in functioning tents: 13%
- Staying in vehicles: 4%
- Residing in unfinished/damaged buildings: 3%
- Residing in makeshift shelter: 1%
- Collective centres outside of education or health facilities: 5%
- Collective centres in educational facilities: 3%
- Collective centres in health facilities: 1%
MAP 7: ESTIMATED NUMBER OF IDP ARRIVALS (HOUSEHOLDS) BETWEEN 6 FEBRUARY AND TIME OF DATA COLLECTION

As reported by KIs in assessed communities

**Reported IDP household arrivals in the community**

- Proportional size:
  - 0
  - 100
  - 300
  - 500
  - 1000

- with new camps/sites reported

**Camp presence**

- 4 - 10
- 11 - 20
- 21 - 50
- 51 - 166

Camps are aggregated at the community level.
Source: CCCM

**Legend**

- Sub-district
- Assessed sub-districts with less than 30% coverage
- Governorate
- Area of influence
- M4/M5 Highway
**SHELTER & NFI**

**Average reported share of residential buildings per damage category** following the earthquakes (by % of 602 assessed communities reporting direct earthquake impacts)

- 44% No damage
- 30% Minor damage
- 12% Major damage
- 11% Severe damage
- 3% Completely destroyed

Across assessed sub-districts, the highest average proportions of **completely destroyed** residential buildings were reported in Jandairis (15%) and Harim (9%).

KIs in assessed communities of Ghandoar, Janudiyeh, Bulbul, Jandairis and Sheikh El-Hadid sub-districts reported the highest averages for percentage of residential buildings severely damaged, with averages of 29%, 25%, 23%, 21% and 20% of residential buildings severely damaged, respectively.

**Average estimated proportion of pre-earthquake households displaced within their community by type of shelter they were residing in** (by % of 329 assessed communities reporting direct earthquake impacts and HHs displaced within the community)

- Hosted for free by friends/relatives: 53%
- Residing in functioning tents: 23%
- Staying in vehicles: 9%
- Residing in unfinished/damaged buildings: 8%
- Residing in makeshift shelters: 3%

Collective centres not in education/health facilities: 3%
Collective centres in educational facilities: 2%
Collective centres in health facilities: 0%

---

**89%**

Of communities saw pre-earthquake households displaced **within** their communities, summing to

**42,000 households** reportedly displaced within their own communities

of which **13,000** were in Salqin sub-district

**62,000*** HHs

Estimated number of households in need of **tents and emergency shelter at collective centres**, as reported in 504 communities where KIs were able to provide estimates (for both the pre-earthquake population and newly-arrived IDPs)

**106,000*** HHs

Estimated number of households in need of **mattresses, high thermal blankets, and clothing**, as reported in 539 communities where KIs were able to provide estimates (for both the pre-earthquake population and newly-arrived IDPs)

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*Building damage definitions:*
- **Completely destroyed**: Structural damages so significant that rehabilitation is not possible.
- **Severe damage**: Significant structural damage to columns, slabs, or load-bearing walls, cracking, steel elements and deformations visible in concrete - building requires extensive repairs.
- **Major damage**: Extensive damage to window frames and doors, but no structural damage to columns, slabs, or load-bearing walls.
- **Minor damage**: Cracks in walls, leaking roof, need of new doors & window repairs, etc.

*Approximate figures*
**Composite score** of KI damage estimates for residential buildings and key types of infrastructure (see Annex for methodology description)

- A score of 0 indicates that no infrastructure was damaged while a score of 1 indicates that all infrastructure was completely destroyed.

**HNAP population**
- 1
- 20'000
- 40'000
- 100'000

**Average composite score for damage to buildings and key infrastructure**
- 0 (2)
- 0.01 - 0.1 (8)
- 0.11 - 0.2 (8)
- 0.21 - 0.3 (6)
- 0.31 - 0.34 (3)

**Assessed sub-districts with less than 30% coverage**
- Governate
- Area of influence
- M4/M5 Highway
MAP 9: ESTIMATED NUMBER OF HOUSEHOLDS IN NEED OF TENTS OR EMERGENCY SHELTER AT A COLLECTIVE CENTRE

As reported by KIs in assessed communities

Residing prior to earthquake and new IDP arrivals if any) in need of tents and emergency shelter at collective centres:

- 0 - 99 (446)
- 100 - 499 (86)
- 500 - 999 (15)
- 1,000 - 1,499 (1)
- 1,500 - 4,000 (4)

- Governorate
- Area of influence
- M4/M5 Highway
- Sub-district
- Assessed sub-districts with less than 30% coverage
MAP 10: ESTIMATED NUMBER OF HOUSEHOLDS IN NEED OF MATTRESSES, THERMAL BLANKETS, AND WINTER CLOTHING

As reported by KIs in assessed communities
### Key Service Access

**Reported levels of access to key services** (by % of 602 assessed communities reporting direct earthquake impacts)

<table>
<thead>
<tr>
<th>Service</th>
<th>Accessible to all</th>
<th>Accessible to most</th>
<th>Accessible to half</th>
<th>Accessible to few</th>
<th>Accessible to none</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Services</td>
<td>39%</td>
<td>30%</td>
<td>9%</td>
<td>9%</td>
<td>12%</td>
</tr>
<tr>
<td>Electricity Services</td>
<td>23%</td>
<td>28%</td>
<td>10%</td>
<td>7%</td>
<td>33%</td>
</tr>
<tr>
<td>Health Services</td>
<td>28%</td>
<td>19%</td>
<td>14%</td>
<td>15%</td>
<td>25%</td>
</tr>
<tr>
<td>Markets</td>
<td>47%</td>
<td>29%</td>
<td>12%</td>
<td>7%</td>
<td>5%</td>
</tr>
</tbody>
</table>

**Accessibility of main services for the three sub-districts with most severe access scores**

<table>
<thead>
<tr>
<th>Sub-District</th>
<th>Water Services</th>
<th>Health Services</th>
<th>Markets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulbul</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accessible</td>
<td>Accessible</td>
<td>Accessible</td>
</tr>
<tr>
<td></td>
<td>to all</td>
<td>to most</td>
<td>to half</td>
</tr>
<tr>
<td>Water Services</td>
<td>6%</td>
<td>29%</td>
<td>13%</td>
</tr>
<tr>
<td>Health Services</td>
<td>4%</td>
<td>0%</td>
<td>4%</td>
</tr>
<tr>
<td>Markets</td>
<td>10%</td>
<td>30%</td>
<td>13%</td>
</tr>
<tr>
<td>Water Services</td>
<td>12%</td>
<td>23%</td>
<td>12%</td>
</tr>
<tr>
<td>Health Services</td>
<td>12%</td>
<td>12%</td>
<td>12%</td>
</tr>
<tr>
<td>Markets</td>
<td>42%</td>
<td>19%</td>
<td>8%</td>
</tr>
<tr>
<td>Water Services</td>
<td>54%</td>
<td>8%</td>
<td>0%</td>
</tr>
<tr>
<td>Health Services</td>
<td>15%</td>
<td>15%</td>
<td>0%</td>
</tr>
<tr>
<td>Markets</td>
<td>69%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

### Most commonly reported earthquake impacts on access to markets that are within assessed communities

<table>
<thead>
<tr>
<th>Impact</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No impacts</td>
<td>35%</td>
</tr>
<tr>
<td>Damage-related safety concerns at markets</td>
<td>25%</td>
</tr>
<tr>
<td>Increased general safety concerns at markets</td>
<td>22%</td>
</tr>
<tr>
<td>Increased item prices</td>
<td>21%</td>
</tr>
<tr>
<td>Market is open for reduced hours</td>
<td>20%</td>
</tr>
<tr>
<td>Increased item unavailability</td>
<td>14%</td>
</tr>
</tbody>
</table>

### ABOUT REACH

REACH Initiative facilitates the development of information tools and products that enhance the capacity of aid actors to make evidence-based decisions in emergency, recovery and development contexts. The methodologies used by REACH include primary data collection and in-depth analysis, and all activities are conducted through inter-agency aid coordination mechanisms. REACH is a joint initiative of IMPACT Initiatives, ACTED and the United Nations Institute for Training and Research - Operational Satellite Applications Programme (UNITAR-UNOSAT).

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1. This score combines information on the proportion of people in the community that were able to access services for water, health, electricity, sanitation, telecommunications/ internet, education, and markets. Water, health, and markets are weighted twice as highly. A score of 1 indicates that nobody in the community was able to access any of the services. A score of 0 indicates that all services were accessible by all households, or that the community was not impacted by the earthquakes.
Composite score of KI access estimates for key types of services (see Annex for methodology description)

This score combines information on the proportion of people in the community that were able to access services for water, health, electricity, sanitation, telecommunications/internet, education, and markets. Water, health, and markets are weighted twice as highly. A score of 1 indicates that nobody in the community was able to access any of the services. A score of 0 indicates that all services were accessible by all households, or that the community was not impacted by the earthquakes.

MAP 11: POPULATION ACCESS TO KEY SERVICES

Composite score of KI access estimates for key types of services (see Annex for methodology description)

Average composite score for access to services

- 0 (4)
- 0.01 - 0.2 (13)
- 0.21 - 0.4 (192)
- 0.41 - 0.6 (139)
- 0.61 - 0.8 (73)
- 0.81 - 1 (21)

Assessed sub-districts with less than 30% coverage

Governorate

Area of influence

M4/M5 Highway

* This score combines information on the proportion of people in the community that were able to access services for water, health, electricity, sanitation, telecommunications/internet, education, and markets. Water, health, and markets are weighted twice as highly. A score of 1 indicates that nobody in the community was able to access any of the services. A score of 0 indicates that all services were accessible by all households, or that the community was not impacted by the earthquakes.
ANNEX 1: Composite Scores – Methodology Notes

Access Score

The aim of this composite indicator is to summarise whether households in communities are struggling to access essential services.

Key informants were asked what proportion of households in their community were able to access specific services. These services were water, health, electricity, sanitation, telecommunications and internet, education, and markets. As the focus was on essential services necessary for survival, several sectors were weighted more heavily in the composite. Specifically, these were water, health, and market services, where markets are an indication of food availability. For simplicity, the weight for these sectors was twice as high as for the others.

The answer options to the question were that all households, most, half, less than half, or none were able to access the service. These were translated into numerical values between 0 and 1, where “none” received a score of 1 (highest severity) and “all” received a score of 0 (lowest severity). Key informants also had the option to indicate that they did not know the proportion. In these cases, the average of the subdistrict was used.

The final score was then calculated as a weighted average, i.e. the sum of all service scores divided by the sum of the weights. For communities that reported no impact from the earthquake, the score was set to 0.

Damage Score

The aim of this composite indicator was to give an idea of the extent of damage to residential buildings and essential infrastructure in communities.

Key informants were asked what percentage of buildings or infrastructure type fell into each damage category. The structure types included here were residential buildings, markets, health facilities, water networks/wells, roads, electricity networks, telecommunications/internet infrastructure, and education facilities. Other infrastructure types were also assessed, notably sanitation networks, but were excluded either because too few communities had this infrastructure type or because categories overlapped. Furthermore, for water infrastructure, the average of damage to water networks and wells was used. This is because many communities only had one of the two water sources. Please note that secondary data suggests that water trucking is one of the most common sources of water; however, damage to these could not be captured as this largely originates in damage to road and water infrastructure outside of the assessed community.

As the focus was on essential structures necessary for survival, several types of buildings and infrastructure were weighted more heavily in the composite. These were residential buildings, markets (as an indication of food availability), health facilities, water, and roads. For simplicity, the weight for each of these sectors was twice as high as for the others.

The answer options were the proportions of the infrastructure that fell into each of the damage categories – completely destroyed, severe damage, major damage, minor damage, and no damage. The damage categories were transformed into numerical values where completely destroyed is 1 and no damage is 0. Using the percentages given by the KIs, we calculated the average damage to the infrastructure. Where the infrastructure didn’t exist, this value was left empty. Where the key informant said that they did not know the level of damage, the value was imputed using the average damage to that infrastructure in the subdistrict.

The final score was then calculated as a weighted average, i.e. the sum of all service scores divided by the sum of the weights. For communities that reported no impact from the earthquake, the score was set to 0.