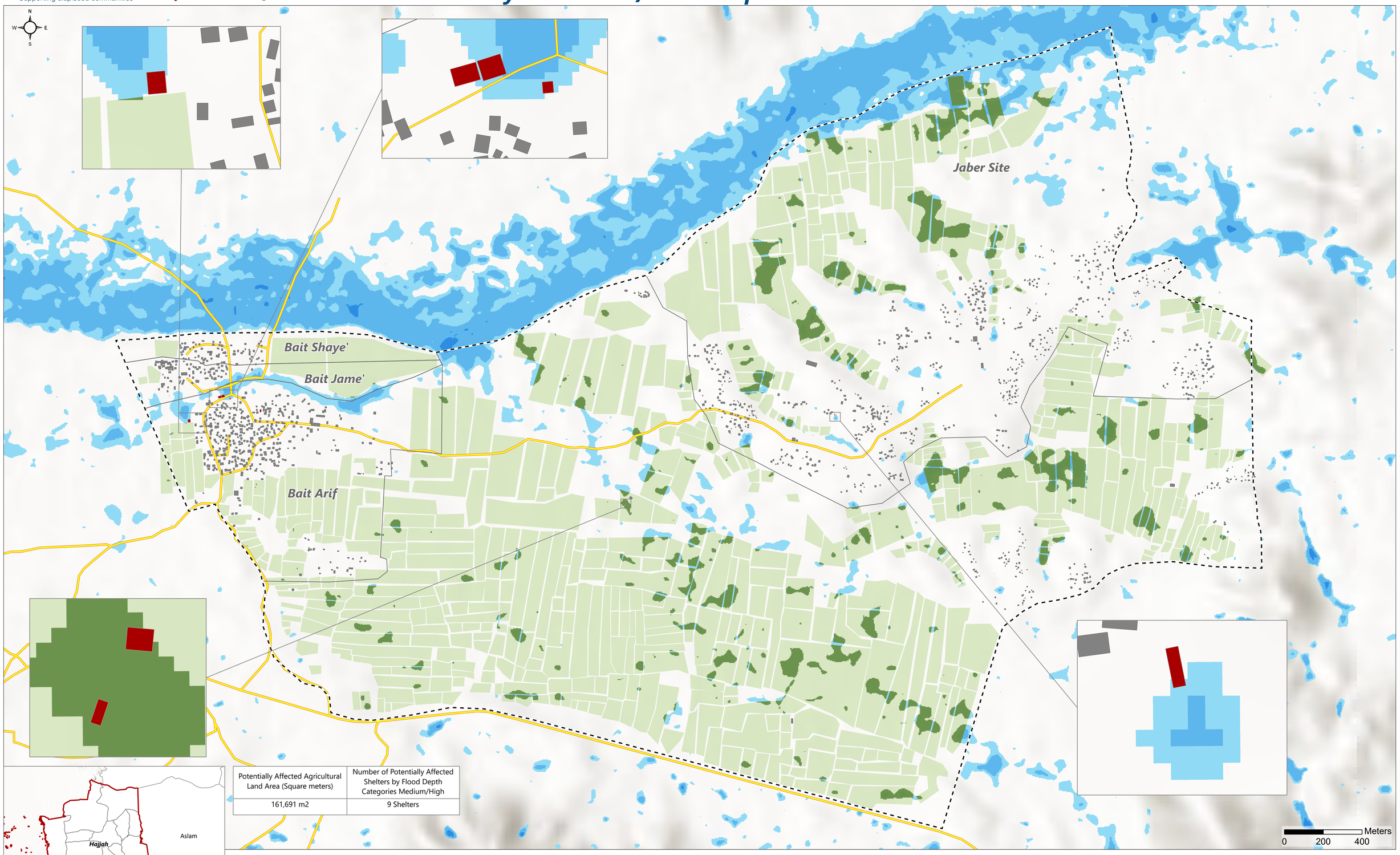
CCCM CLUSTER
Supporting displaced communities

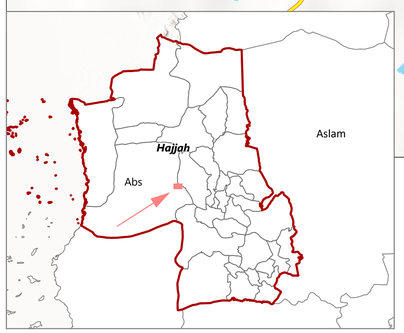
Shelter Cluster Yemen
ShelterCluster.org
Coordinating Humanitarian Shelter

Yemen - Hajjah

Al Dhahyah IDP Site / Flood Depth - March 2023

Production date : 12 April 2023





Potentially Affected Agricultural Land Area (Square meters)	Number of Potentially Affected Shelters by Flood Depth Categories Medium/High
161,691 m2	9 Shelters

Modelled Flood Depth (meter)
- ≤ 0.5 (Not Displayed)
- ≤ 1
- ≤ 2
- ≤ 5
- > 5

Shelters Flood Depth Score
- No/Low (1,352 Shelters)
- Medium/High

Roads
Agricultural Land
Affected Agricultural Land
Blocks
IDP Site Boundaries

*A two-dimensional (2D) unsteady flow hydraulic model was set up using HEC-RAS software for the two catchments in the Abs region. The approach allows an understanding of flood hazards on a catchment-wide scale and identify areas prone to flood risk, especially areas exposed to flash flooding. The terrain used for the HEC-RAS 2D unsteady flow analysis of the Abs catchment was a satellite derived DEM product of **2.5 meters resolution.** Flood hazard was obtained by multiplying depth and velocity. The flood water depth represents water flow extents and static accumulation of water in meters. It was classified into 5 flood hazard categories from very low to extreme according to the Japanese criteria of the Ministry of Land Infrastructure, where each hazard category is associated with the risk of damage, the threat to human safety, and the possibility of evacuation. Following a collaborative approach, Following a collaborative approach, **REACH and CCCM Partner RADF drew site boundaries of Al Dhahyah IDP site.** For more info and full methodology, please see IDP Hosting Sites and Abs City Flood Hazard Analysis report.*

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associated, donors mentioned on this map.

Data sources:
Roads and Buildings: OpenStreetMap
Shelters and Agriculture Land: Manually digitized by REACH Yemen
Site boundary: RADF
Flood Depth: REACH HEC RAS models - 2.5 meter DTM
Admin Layers: OCHA
Background: ESRI
Coordinate System: WGS 1984 UTM Zone 38N
File: REACH_YEM_Map_FloodDepth_Aldhahyah_12Apr2023_A1
Contact: mapping@impact-initiatives.org

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RADF
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