Yemen - Flood Risk Scores & IDP Sites Location YEMEN **CCCM CLUSTER** دعم مجتمعات النازحين

(2D HEC-RAS Hazard Modelling) West of Yemen - March 2022

Version 1 Production date : 24 March 2022





This map shows the estimated locations and Flood Risk Scores of 589 internally displaced person (IDP) hosting sites in some parts of the west of Yemen (incl. Hajjah, Al Hodeidah, Taiz governorates). REACH aimed to develop Flood Risk Scores for IDP Hosting sites by modeling the risk of flooding in 12 separate basins using HEC-RAS software and then triangulate the results with other available data sources (i.e., CCCM Site Report, CCCM Flood Report, CCCM 2022 SNCCs Flood Estimates) to estimate which IDP hosting sites are at risk of flooding. While the HEC-RAS model determines the extent to which an IDP site is at risk of flooding based on a designed storm, the CCCM Flood Report highlights sites where flooding actually occurred in 2021/2022. The CCCM Site Report reports whether a site is at risk of flooding, based on Key Informants perception. Overall, the CCCM Flood Report is considered the most authoritative dataset in this analysis, since it reports actual events. The CCCM Flood Report also allows REACH to validate its HEC-RAS model findings over time.

- Governorate Flood Hazard (m2/s) District >0 - 0.2 (Low - No Risk) High risk Basins >0.2 - 0.5 (Medium) >0.5 - 1.5 (High) >1.5 - 2.5 (Very High) ∧ No/Low risk >2.5 (Extreme)
 - IDP Sites Flood Scores
 - Medium/High risk Medium risk

 - 🛆 Unknown

Data sources:

IDP Sites: CCCM Master List and CCCM Site Report List Flood Data: REACH HEC-RAS Models, CCCM Site Report, CCCM Flood Report, CCCM 2022 SNCCs Flood Estimates. Admin Boundaries: OCHA Background: ESRI, NGA, USGS, CGIAR

Coordinate System: GCS WGS 1984

File: REACH_YEM_Map_West_CCCM_Flood_Hazard_IDPSites_24Mar2022_A2_V1 Contact: reach.mapping@impact-initiatives.org

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.

