



Susceptibility was calculated through weighted linear combination analysis of the following data: **soil type, landcover, slope, elevation, rain intensity, rain duration, topographic wetness index, height above drainage, distance from drainage.**

The data shows areas more or less susceptible to flooding based on physical geographical land features and rainfall patterns. This map does is not predictive of flooding and does not portray flood risk.



0 10 20
km

- Flood Susceptibility**
- High
 - Low
- ★ Governorate Capital
● District Capital
— Main Road

Note: The results of this exploratory analysis are not to be used for strategic planning. Methods are unverified by hydrological experts. 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.

Information

See methodology and accuracy assessment for further information on this assessment on the REACH Resource Centre: <http://www.reachresourcecentre.info/countries/yemen>

Coordinate System:
WGS 1984 UTM Zone 38N
File: REACH_YEM_MAP_Socotra_HVA_FloodSusceptibility_16APR2020_A4_V2
Contact: reach.mapping@impact-initiatives.org

Source	Variable(s)	Resolution	Period
Global Hydrologic Soil Groups v1	Soil Type	~ 250 m	1900 - 2015
CHIRPS Daily: InfraRed Precipitation w/ Station Data v2	Rain Intensity, Rain Duration	~ 0.05 arc degrees	1984 - 2018
MODIS Landcover	Landcover	500 m	2016
NASADEM HGT v001	Elevation, Slope, Topographic Wetness Index, Distance from Nearest Drainage	~ 30 m	-
Height Above Nearest Drainage	Height Above Nearest Drainage	90 m	-