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.

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

**Flood Susceptibility**

- **Governorate Capital**
  - **High**
  - **Low**

Note: The results of this exploratory analysis are not to be used for strategic planning. Methods are derived by hydrological experts. Data, designations and boundaries contained in this map are not guaranteed to be error-free and do not imply acceptance by the REACH partners, associated donors, or REACH.

**Information**

See methodology and accuracy assessment for further information on this assessment on the REACH Resource Centre: [http://www.reachresourcecentre.info/countries/yemen](http://www.reachresourcecentre.info/countries/yemen)

Coordinate System: Yemen 1994 UTM Zone 36N

File: REACH_YEM_Map_Aden_FloodSusceptibility_20190829_M_V1

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**Source**

- WWF HydroSHEDS Flow Accumulation: Distance from Nearest Drainage, Elevation, Slope, Topographic Wetness Index, Height above Nearest Drainage, Distance from Drainage
- Harmonized World Soil Database v1.2: Soil Type
- Landsat 8 Imagery: Normalized Difference Vegetation Index
- MODIS Landcover: Landcover
- CHIRPS Daily: InfrarRed Precipitation w/ Station Data v2: Rain Intensity, Rain Duration
- Elevation: Height Above Nearest Drainage

**Variables**

- Distance from Nearest Drainage
- Soil Type
- Normalized Difference Vegetation Index
- Landcover
- Rain Intensity
- Rain Duration
- Height Above Nearest Drainage

**Resolution**

- ~500 km
- ~1 km
- 30 m
- 500 m
- ~0.05 arc degrees

**Period**

- 2000
- 2012
- 2014-2019
- 1981-2019
- 2016