Susceptibility

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

The map shows relative flood susceptibility across the surface of Central African Republic based on physical land features and rainfall patterns.

Risk

Risk was calculated using measurements of flood hazard (susceptibility), exposure, and vulnerability. Hazard is an average of the flood susceptibility score in populated areas. Exposure is measured as the proportion of people living in high to very high flood susceptibility areas. Vulnerability is a composite measure of housing structure fragility, food insecurity, low financial resilience, IDPs, youth, unaccompanied youth, elderly, and disabled persons.

Data sources:
- Administrative Boundaries: UNOCHA
- Surface Water: ESA Climate Change Initiative, 20m Africa Land Cover 2016
- Flood Susceptibility: REACH Initiatives
- 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, associates, donors mentioned on this map.

See methodology at the CAR REACH Resource Centre link

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