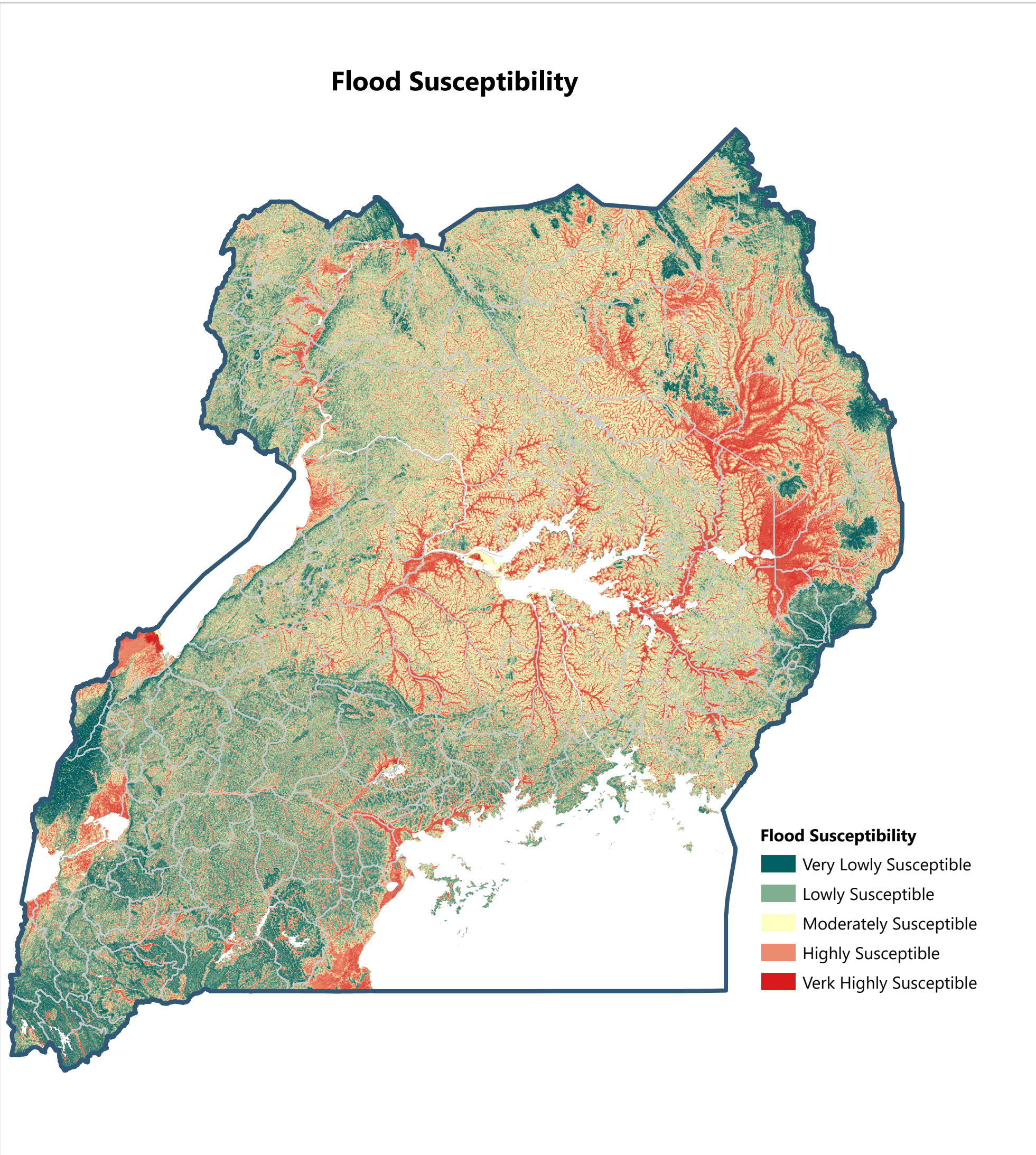


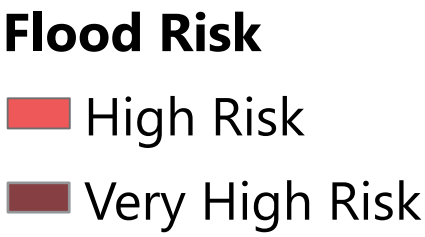
El Niño Flood Risk Maps- September-December 2026

In August 2026, ICPAC reported developing El Niño conditions, with increased likelihood of wetter-than-normal conditions and elevated flood risk across the Greater Horn of Africa, including Uganda and the Lake Victoria Basin. The analysis identifies particularly high flood risk in Lakeshore, Eastern (Elgon region) and Western districts, with Mbale, Bulambuli, Bududa, Namayingo, Bundibugyo (Bwamba) and Buhweju showing the highest combined flood exposure and socioeconomic vulnerability, highlighting the need to prioritize preparedness, anticipatory action, early warning, and pre-positioning of response resources.



Flood potential was assessed by combining historical El Niño rainfall anomalies with terrain-based flood susceptibility. Maximum 5-day rainfall (RX5day) was derived from CHIRPS for the September–December (SOND) season across six El Niño analogue years (1982, 1997, 2002, 2009, 2015, and 2023) and compared with the 1991–2020 climatology. Flood hazard combined mean RX5day (70%) and El Niño rainfall amplification relative to the baseline (30%). Flood susceptibility REACH methodology was adapted available at : [flood risk methodology](#)

Population exposure was estimated by overlaying Flood Potential with normalized WorldPop 2026 population density, with district exposure defined as the number and proportion of people in high Flood Potential zones (classes 4–5). Vulnerability was represented using the population-weighted Multidimensional Poverty Index (MPI). District risk combined normalized exposure and vulnerability using a geometric mean and was classified into five relative categories, from Very Low to Very High.



CHIRPS Daily and Pentad Rainfall (UCSB Climate Hazards Center); MERIT Hydro v1.0.1; SRTM DEM; JRC Global Surface Water v1.4; OpenLandMap Soil Clay Content; WorldPop Uganda Population 2026; Uganda Multidimensional Poverty Index (MPI) UBOS 2024; FAO GAUL 2015 administrative boundaries. Historical El Niño analogues years used for rainfall analysis: 1982, 1997, 2002, 2009, 2015 and 2023.

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

File: REACH_UGA_Map_El NiñofloodriskSeptemeber-December2026_10OCT2026_A0

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