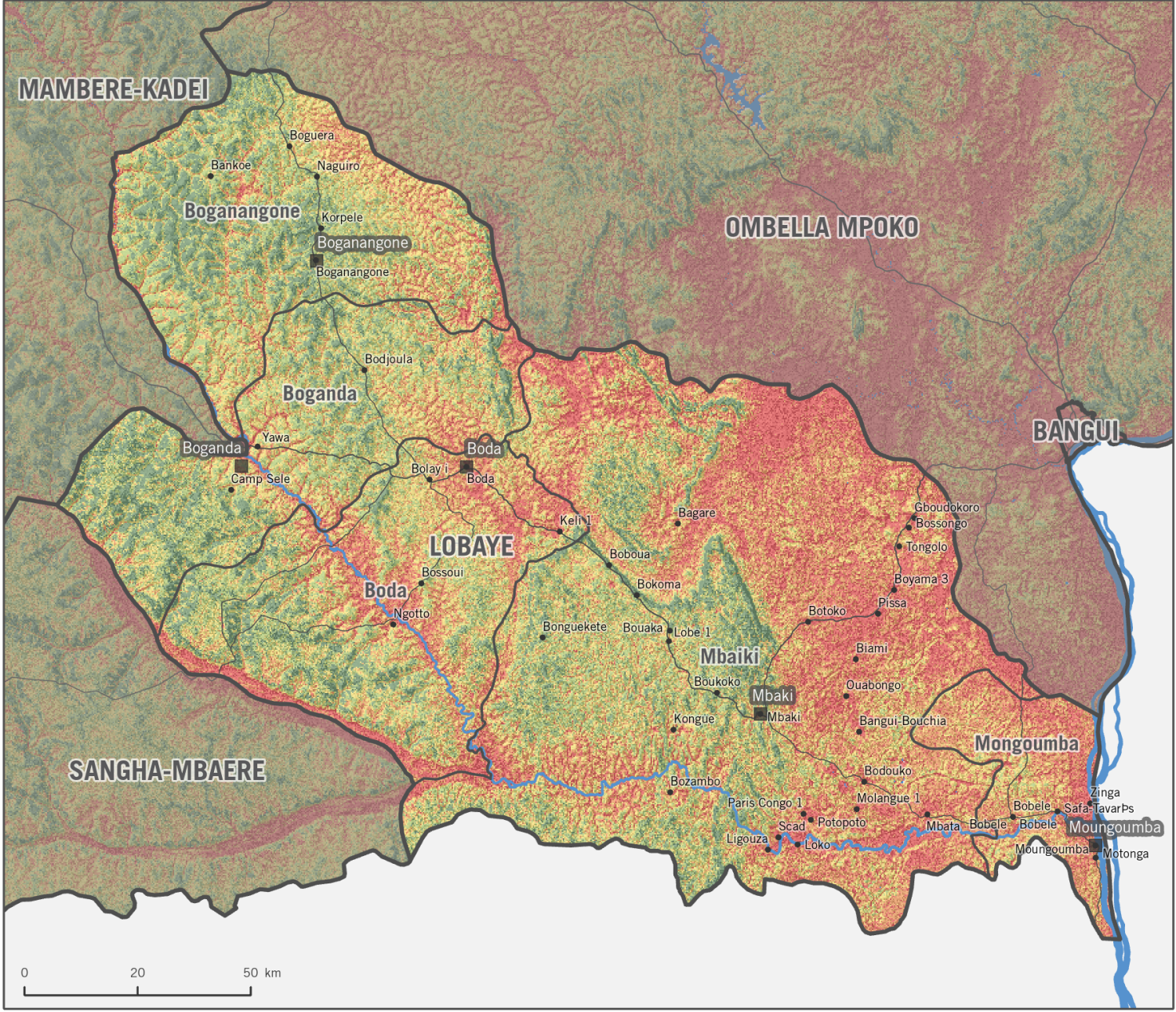


# CENTRAL AFRICAN REPUBLIC - Flood Susceptibility and Risk

## Lobaye Prefecture

Intended for humanitarian use  
Production date : June 2020



### Susceptibility

Susceptibility was calculated through weighted linear combination analysis of the following data: **soil drainage, landcover, slope, elevation, rain intensity, rain 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/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.

Prefecture	Sub-Prefecture	Vulnerability Score	Susceptibility Hazard Score	People in High/Very High Flood Risk Area %	People in High/Very High Flood Risk Area #	FINAL RISK SCORE
Ombella M'Poko		1	4.20	74%	320,368	high
Lobaye		3	3.59	53%	161,627	low
	Boda	2	3.69	60%	33,836	medium
	Bogangone	3	2.25	5%	1,774	low
	Boganda	3	2.73	27%	4,322	low
	Mbaiki	3	3.87	58%	100,873	medium
	Mongoumba	3	4.11	80%	21,509	very high
Mambéré-Kadéï		2	2.87	27%	122,092	very low
Nana-Mambéré		2	2.86	9%	21,826	very low
Sangha-Mbaéré		3	3.65	59%	74,824	medium
Ouham Pendé		3	2.77	24%	116,132	low
Ouham		2	4.88	74%	334,110	medium
Kémo		3	4.13	70%	106,957	high
Nana-Gribizi		2	4.84	72%	101,176	medium
Ouaka		3	3.80	65%	240,230	medium
Bamingui-Bangoran		2	3.99	70%	41,846	medium
Haute-Kotto		2	4.19	81%	91,422	high
Vakaga		2	4.39	91%	59,101	high
Basse-Kotto		3	3.73	63%	198,780	medium
Mbomou		1	4.12	79%	163,962	medium
Haut-Mbomou		4	3.43	57%	47,450	low
Bangui		2	4.80	98%	858,552	high



### Flood Susceptibility

- Very Low
- Low
- Medium
- High
- Very High
- Capitals
- Settlements (>1,000)
- Primary Roads
- Secondary Roads
- Surface Water

Data sources:  
Administrative Boundaries- UNOCHA  
Surface Water- ESA Climate Change Initiative, 20m Africa Land Cover 2016  
Flood Susceptibility- REACH Initiatives CAR  
Coordinate System: GCS WGS 1984

File:  
REACH\_CAR\_Map\_FloodRisk\_Lobaye\_11JUN2020\_A4  
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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