

# Hunting pressure on forest animals in Africa is on the increase

9 February 2016



Bushmeat. Credit: Günther Merz WWF

Since about 25 years, animal species in West and Central Africa are no longer being hunted solely for the purpose of local self-sufficiency, but increasingly also for sale in urban areas several hundred kilometres away. As a consequence, many populations have dramatically decreased or already disappeared altogether. A team of European researchers led by Goethe University Frankfurt has now predicted hunting pressure for the Congo Basin and produced a detailed map, which could help in regional planning.

The hunted species are mostly mammals, but also some reptile and bird species. In many areas, they are the only cheap and easily available source of animal protein for the [rural community](#). However, the commercialization of the bushmeat trade has meanwhile led also to the "Empty Forest Syndrome" in forest ecosystems throughout Africa. The sale of bushmeat allows the rural community to purchase products or services which go beyond simple self-sufficiency. This has far-reaching ecological consequences, which ultimately also threaten the existence of the rural population. For example, with the disappearance of the

herbivorous animals which serve as seed carriers, the forests disappear in the long term too.

The research team led by Bruno Streit analysed reports published between 1990 and 2007 on the bushmeat on sale on markets in the Congo Basin (Cameroon, Central African Republic, Democratic Republic of the Congo, Equatorial Guinea, Gabon and the Republic of the Congo). On the basis of the number of carcasses openly on sale and the catchment area of the markets, they calculated the annual harvest rates of bushmeat per square kilometre. They then correlated these figures with socio-economic variables, such as population density, the density of the road network and the distance of the markets to the nature reserves. In a further step, they defined different classes of potential hunting pressure.



Bushmeat is shown at the market in Gabon 2012. Credit: WWF

"For a quarter of the total area, we calculated a level of hunting pressure which was somewhat lower", explains Professor Bruno Streit of the Institute of Ecology, Evolution and Diversity at Goethe University Frankfurt. "However, our

prediction foresees severe to very severe hunting pressure across 39 percent of the area of the Congo Basin. This is the case above all in areas with a very dense network of traffic routes, often in proximity to [nature reserves](#)", continues Stefan Ziegler of the WWF. Thus the internationally famous Virunga National Park and the Okapi Wildlife Reserve in the east of the Democratic Republic of the Congo also lie in such areas.

Provided by Goethe University Frankfurt

The map produced by the researchers could help to support sustainable [regional planning](#) by ensuring that - as far as possible - roads do not carve up areas rich in wildlife. The map also identifies neuralgic points where the potential for hunting pressure is particularly high. Anti-poaching measures should concentrate on these zones.

The report stemmed from a joint project between Goethe University Frankfurt, experts in remote sensing at the University of Würzburg, and conservationists from WWF Germany.



Confiscated bushmeat in Dzanga Sangha. Credit: WWF

**More information:** Stefan Ziegler et al. Mapping Bushmeat Hunting Pressure in Central Africa, *Biotropica* (2016). [DOI: 10.1111/btp.12286](https://doi.org/10.1111/btp.12286)

APA citation: Hunting pressure on forest animals in Africa is on the increase (2016, February 9) retrieved 4 December 2021 from <https://phys.org/news/2016-02-pressure-forest-animals-africa.html>

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