

# Food abundance driving conflict in Africa, not food scarcity

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In Africa, food abundance may be driving violent conflict rather than food scarcity, according to a study published in the *American Journal of Agricultural Economics*, a publication of the Agricultural & Applied Economics Association.

The study refutes the notion that climate change will increase the frequency of [civil war](#) in Africa as a result of [food](#) scarcity triggered by rising temperatures and drought. Most troops in Africa are unable to sustain themselves due to limited access to logistics and state support, and must live off locally sourced food. The findings reveal that the actors are often drawn to areas with abundant food resources, whereby, they aim to exert control over such resources.

To examine how the availability of food may have affected armed conflict in Africa, the study relies on PRIO-Grid data from over 10,600 grid cells in Africa from 1998 to 2008, new agricultural yields data from EarthStat and Armed Conflict Location and Event Dataset, which documents incidents of political violence, including those with and without casualties. The data was used to estimate how annual local wheat and maize yields (two staple crops) at a local village/town level may have affected the frequency of conflict. To capture only the effects of agricultural productivity on conflict rather than the opposite, the analysis incorporates the role of droughts using the Standardized Precipitation Index, which aggregates monthly precipitation by cell year.

The study identifies four categories in which conflicts may arise over

food resources in Africa, which reflect the interests and motivations of the respective group:

- State and military forces that do not receive regular support from the state are likely to gravitate towards areas, where food resources are abundant in order to feed themselves.
- Rebel groups and non-state actors opposing the government may be drawn to food rich areas, where they can exploit the resources for profit.
- Self-defense militias and civil defense forces representing agricultural communities in rural regions, may protect their communities against raiders and expand their control into other areas with arable land and food resources.
- Militias representing pastoralists communities live in mainly arid regions and are highly mobile, following their cattle or other livestock, rather than relying on crops. To replenish herds or obtain [food crops](#), they may raid other agriculturalist communities.

These actors may resort to violence to seek access to food, as the communities that they represent may not have enough [food resources](#) or the economic means to purchase livestock or drought-resistant seeds. Although droughts can lead to violence, such as in urban areas; this was found not to be the case for rural areas, where the majority of armed conflicts occurred where food crops were abundant. Food scarcity can actually have a pacifying effect.

"Examining food availability and the competition over such resources, especially where food is abundant, is essential to understanding the frequency of civil war in Africa," says [Ore Koren](#), a U.S. foreign policy and international security fellow at Dartmouth College and Ph.D. candidate in political science at the University of Minnesota.

"Understanding how [climate change](#) will affect food productivity and

access is vital; yet, predictions of how drought may affect conflict may be overstated in Africa and do not get to the root of the problem. Instead, we should focus on reducing inequality and improving local infrastructure, alongside traditional conflict resolution and peace building initiatives," explains Koren.

**More information:** Ore Koren. Food Abundance and Violent Conflict in Africa, *American Journal of Agricultural Economics* (2017). [DOI: 10.1093/ajae/aax106](https://doi.org/10.1093/ajae/aax106)

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