

# Deforestation can have devastating impacts on frog populations

21 September 2015

---

Increasingly, forests in Borneo, the world's third largest island, are being converted to plantations, which poses considerable threats to amphibians. If this continues unabated, almost three-quarters of the current forest is expected to disappear by 2100.

In a new study, investigators found that frog species richness declined with loss of canopy cover from primary [forest](#) to logged forest to plantation. On average, less than half of the primary forest species of frogs remained in [oil palm plantations](#). Worst were young plantations with very low canopy cover—they retained only 20% of the possible regional primary forest frog species and a fraction of the individual numbers.

"The impact we observed for stream frogs in Borneo was similar to that found previously for birds and mammals," said Dr. Oliver Konopik, lead author of the *Biotropica* study. "The oil palm industrial monoculture is a primary forest frog's worst nightmare but could be mitigated in part by rigorously enforcing the creation of riparian buffer zones within plantations. Frogs play a central role in the forest food web and thus need to be protected."

Provided by Wiley

APA citation: Deforestation can have devastating impacts on frog populations (2015, September 21) retrieved 2 March 2021 from <https://phys.org/news/2015-09-deforestation-devastating-impacts-frog-populations.html>

*This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.*