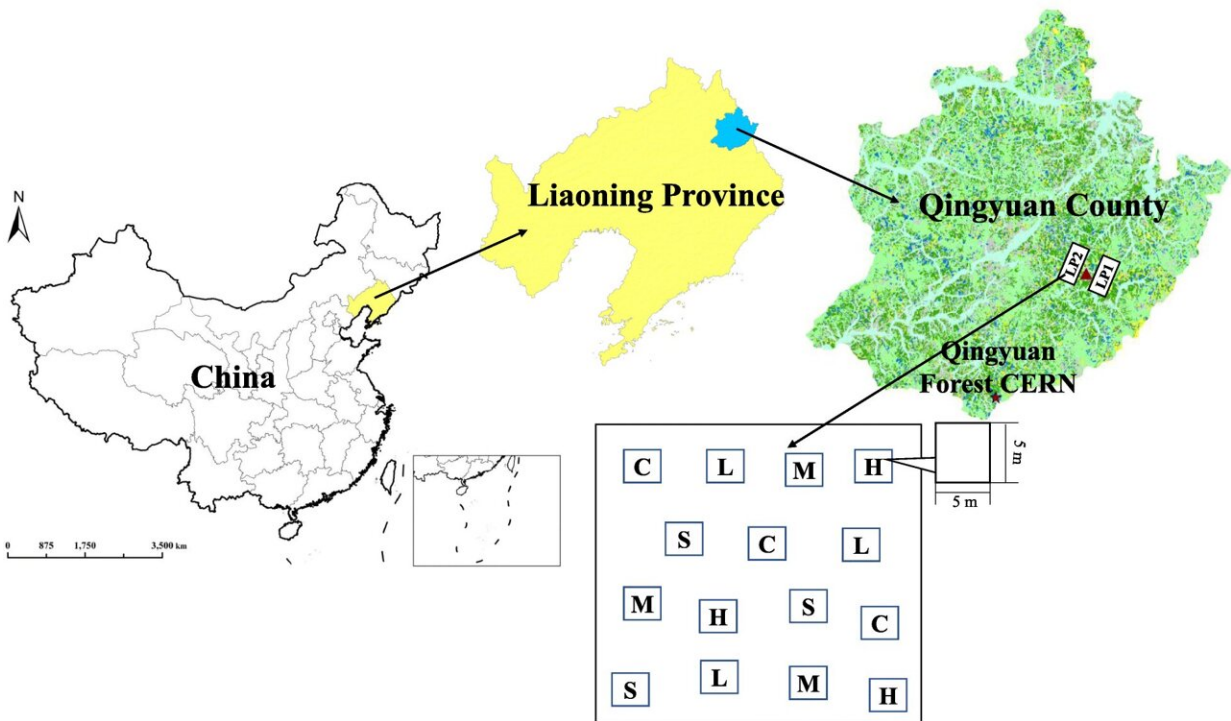


Effects of harvest intensity on sustainable utilization of non-timber forest products

August 30 2021, by Zhang Nannan



The sketch map of study site and experimental design. C: control treatment plot; L: light harvest intensity treatment plot; M: medium harvest intensity treatment plot; H: high harvest intensity treatment plot; S: severe harvest intensity treatment plot. Credit: DOI: 10.1186/s40663-021-00332-w

Non-timber forest products (NTFPs) are very important for local forest dwellers to increase their income. The growing demand for NTFPs

resources with high economic value may lead to disorderly utilization and over-exploitation.

Researchers from the Institute of Applied Ecology (IAE) of the Chinese Academy of Sciences (CAS) recently revealed how harvest intensity affects the sustainable utilization of NTFPs by experimentally designing different harvest intensity levels to verify which harvest intensity is optimum for sustainable harvesting of NTFPs in a montane region of Northeast China.

They found that harvest activities could increase the yield of both two important NTFPs species (*Acanthopanax senticosus* and *Aralia elata*). Light harvest intensity (harvest 25% leaves) was favorable for the sustainable harvesting of *Acanthopanax senticosus*, and high harvest intensity (harvest all terminal buds) was beneficial to sustainable [harvesting](#) of *Aralia elata*.

These results highlight the role of harvest intensity in the sustainable utilization of NTFPs, and provide practical guidance and theoretical basis for forest managers to harvest and manage NTFPs resources.

Relevant results have been published in *Forest Ecosystems*, titled "Effects of harvest [intensity](#) on the marketable organ yield, growth and reproduction of non-timber [forest](#) products (NTFPs): implication for conservation and sustainable utilization of NTFPs."

More information: Ting Zhang et al, Effects of harvest intensity on the marketable organ yield, growth and reproduction of non-timber forest products (NTFPs): implication for conservation and sustainable utilization of NTFPs, *Forest Ecosystems* (2021). [DOI: 10.1186/s40663-021-00332-w](#)

Provided by Chinese Academy of Sciences

Citation: Effects of harvest intensity on sustainable utilization of non-timber forest products (2021, August 30) retrieved 10 July 2024 from <https://phys.org/news/2021-08-effects-harvest-intensity-sustainable-non-timber.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.