

Queensland native forestry can help achieve global environment goals, research suggests

July 7 2023



This native forest in southern Queensland has been selectively harvested three times since the 1950s and is almost ready for another harvest. Credit: Dr Tyron Venn



Research conducted by The University of Queensland has revealed that Queensland native forestry, including timber harvesting, could actually help conserve biodiversity and mitigate climate risks.

Dr. Tyron Venn from UQ's School of Agriculture and Food Sustainability reviewed more than 350 publications, studying the ecological and economic impacts of Queensland native forest management, which includes everything from fire management to <u>timber</u> <u>harvesting</u>. The research has been published in *Forest Policy and Economics*.

"Stopping forestry in Queensland's native forests may sound like a positive outcome for the environment, but the research suggests that it would further shift our impacts offshore and increase carbon emissions, while generating little benefit for <u>biodiversity conservation</u> within Australia," Dr. Venn said.

Since the 1990s, Australia's annual harvest of native hardwood sawlogs has dropped by 2.2 million cubic meters, as large areas of state-owned native forests have been declared National Parks or other types of conservation reserves in which harvesting is not allowed.

"Over the same time period, imports of hardwood products from lesswell managed forests in Asia and the Pacific increased by a similar amount," Dr. Venn said.

"In many developing countries, large international timber companies operate with disregard for the environment and often have <u>negative</u> <u>impacts</u> on traditional forest communities."

"Without realizing it, many Australians buy products made with foreign timbers and threaten <u>conservation efforts</u> for the orangutan, Malayan tiger, Asian sun bear and Asian tapir."



The research found that Queensland's low-intensity forestry management techniques are informed by science to minimize environmental impacts.

Queensland law allows selection harvesting in some of the state's public and private native forests, which typically removes 10 to 20 trees per hectare every 20 to 40 years. Strict rules regulate how this is conducted, such as by requiring minimum retention of trees of different sizes, including large old trees with hollows.

"Selection harvesting can restore <u>wildlife habitat</u>, promote and conserve floristic diversity and improve the resilience of large trees against <u>climate change</u> and bushfire," Dr. Venn said.

Dr. Venn said forestry is the twenty-fifth most important threat to biodiversity in Australia, and forestry in Queensland impacts only 0.8% of Australia's 1,795 threatened species.

"There are 24 more important threats we should be focused on, including <u>invasive weeds</u>, invasive predators, urban development, and reduced fire frequency or intensity," he said.

Dr. Venn said Queensland should continue to manage some of its forests for wood production, as recommended by the Intergovernmental Panel on Climate Change (IPCC).

"The IPCC has long argued that sustainably managing forests to produce timber, fiber and energy will generate the largest carbon sequestration benefit from forests," he said.

"If Queensland reduced its native forestry in the near future, the knockon effect would be negative impacts on global efforts to conserve biodiversity and reduce <u>carbon emissions</u> due to increased consumption of timber imports and carbon polluting substitutes."



"Queensland can maximize its contribution to global biodiversity and climate goals by continuing to manage some of the state's <u>native forests</u> for timber production."

More information: Tyron J. Venn, Reconciling timber harvesting, biodiversity conservation and carbon sequestration in Queensland, Australia, *Forest Policy and Economics* (2023). DOI: 10.1016/j.forpol.2023.102979

Provided by University of Queensland

Citation: Queensland native forestry can help achieve global environment goals, research suggests (2023, July 7) retrieved 28 April 2024 from <u>https://phys.org/news/2023-07-queensland-native-forestry-global-environment.html</u>

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.