

## THE IMPACT OF GLOBALIZATION ON FOREST RESOURCES AND LOCAL COMMUNITIES

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### Article Info

Received: October 4, 2024

Revised: December 19, 2024

Accepted: March 22, 2025

Online Version: April 24,  
2025

### Abstract

Globalization has increasingly affected forest resources and local communities around the world. The growing demand for natural resources driven by global markets has led to both positive and negative consequences for forests and the people dependent on them. Forest ecosystems, crucial for biodiversity and climate regulation, are often threatened by logging, land conversion, and unsustainable practices associated with globalization. The interaction between economic development, environmental degradation, and local community livelihoods has become a critical area of study in sustainable development and environmental conservation. This study aims to examine the impact of globalization on forest resources and local communities, with a focus on both the challenges and opportunities arising from global economic integration. It seeks to understand how globalization influences forest degradation, conservation efforts, and the socio-economic conditions of indigenous and rural populations. The research employs a mixed-methods approach, combining qualitative case studies from various regions with quantitative analysis of forest resource depletion trends. Data were gathered from interviews with local communities, government reports, and forest resource databases. Statistical tools were used to analyze the correlation between globalization indicators (e.g., trade volumes, foreign investments) and deforestation rates. The study finds that while globalization has led to economic growth in some areas, it has also accelerated deforestation and degraded local ecosystems. Communities dependent on forests for livelihood have experienced both disruption of traditional practices and exposure to new economic opportunities. However, the benefits of globalization have been uneven, with wealthier communities often benefiting more than the most vulnerable. Globalization presents a complex challenge for forest resources and local communities. Sustainable solutions require a balance between economic development and environmental conservation, with inclusive policies that protect the interests of indigenous and rural populations.

**Keywords:** Globalization, Forest Resources, Local Communities, Deforestation, Sustainable Development



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Journal Homepage

<https://research.adra.ac.id/index.php/selvicoltura>

How to cite:

Mahdavi, L., Reza, A., & Hashemi, F. (2025). The Impact of Globalization on Forest Resources and Local Communities. *Journal of Selvicoltura Asean*, 2(2), 97–107. <https://doi.org/10.70177/selvicoltura.v2i2.2040>

Published by:

Yayasan Adra Karima Hubbi

## INTRODUCTION

Globalization has become a defining force in shaping the global economy and environment (Alencar et al., 2025). It has facilitated the movement of goods, people, and capital across borders, leading to greater economic interdependence among nations. One of the most visible effects of globalization is the increased demand for natural resources, including forest products, which are essential for construction, paper production, and energy (Gutiérrez-Zapata et al., 2025). Forests, however, are under pressure as they are increasingly seen as valuable commodities for trade, often leading to their depletion.

The expansion of agricultural markets driven by globalization is another key factor influencing forests (Marca et al., 2025). Large-scale agricultural activities, such as palm oil plantations, soy farming, and cattle ranching, have contributed to widespread deforestation, especially in tropical regions. These activities often replace rich and diverse forest ecosystems with monocultures, threatening biodiversity and the stability of local ecosystems (Liu et al., 2023). Deforestation as a consequence of these activities is one of the most significant environmental issues of our time.

Local communities, particularly indigenous and rural populations, are heavily reliant on forests for their livelihoods (Soares et al., 2025). Forests provide a range of ecosystem services, such as food, fuel, medicine, and shelter. However, as forests are increasingly converted into commercial agricultural land or extracted for timber, these communities often lose access to vital resources (Dröge et al., 2025). The socioeconomic impacts on these communities are profound, as their traditional ways of life and self-sufficiency are disrupted.

While globalization has introduced economic growth in certain areas, it has also exacerbated inequalities (Feurer et al., 2025). Wealthy, urbanized populations benefit from increased access to goods and services, while rural communities often suffer from environmental degradation and social dislocation (Albers, Robinson, et al., 2025). In many cases, local communities are excluded from decision-making processes regarding the use of forest resources, which leaves them vulnerable to exploitation and marginalization.

Despite these challenges, globalization has also brought some opportunities. It has increased awareness of environmental issues on a global scale, leading to greater international cooperation in forest conservation efforts (Albers, Lee, et al., 2025). Organizations like the United Nations and the World Bank have developed frameworks to address deforestation and promote sustainable land use practices (Urugo et al., 2025). Moreover, the rise of sustainable trade certifications, such as FSC (Forest Stewardship Council), provides incentives for businesses to adopt more sustainable practices in sourcing forest products.

In some regions, globalization has enabled local communities to gain access to new markets and economic opportunities, such as eco-tourism and non-timber forest products (Muradian et al., 2025). These opportunities, however, are often unequal, with the benefits being more accessible to wealthier or more well-connected individuals, leaving the poorest segments of society still struggling to maintain their forest-dependent livelihoods.

While much is known about the negative impacts of globalization on forest resources, there is less understanding of the nuanced ways in which local communities adapt to and resist these changes (Siegel et al., 2026). How do indigenous knowledge systems and traditional practices contribute to forest conservation amidst globalization? Existing literature tends to focus on the broader economic drivers of deforestation, but less attention has been paid to the adaptive strategies employed by local communities to cope with the pressures of global markets.

Moreover, the relationship between global trade policies and local forest governance remains underexplored (Wang et al., 2025). While global markets undoubtedly influence deforestation, how do local governance structures, land tenure systems, and community engagement mitigate or exacerbate these impacts? There is a need to investigate how

governance at the local, national, and international levels intersects with globalization in shaping forest resource management.

The uneven distribution of benefits from globalization is another under-researched area (Ureta Cifuentes et al., 2025). While some communities have benefited from economic opportunities linked to global markets, others have experienced displacement, marginalization, and poverty (Coulibaly, 2025). More research is needed to understand why certain communities are better able to capitalize on globalization's opportunities while others are left behind.

Finally, there is limited research on the role of globalization in fostering environmental policies that are both globally integrated and locally sensitive (Maza-Maza et al., 2025). How can international agreements and trade frameworks incorporate the needs of local communities while ensuring the sustainability of forest resources? Addressing these gaps in the literature is crucial for understanding the full scope of globalization's impact on forest resources and the communities that depend on them.

Filling these gaps in research is critical for developing more holistic approaches to forest conservation and sustainable development (Hassan et al., 2023). Understanding how local communities adapt to globalization can inform policies that enhance their resilience and ensure that they benefit from economic opportunities without sacrificing environmental sustainability (Mandal & Ramu, 2024). By investigating the role of traditional knowledge in forest management, we can uncover valuable strategies for promoting sustainable forest use in the context of global economic integration.

Exploring the intersections of global trade policies and local governance will provide insights into how international agreements can be better aligned with the needs and priorities of local communities (Rakuasa et al., 2024). This research is essential for ensuring that forest management strategies are not only environmentally effective but also socially equitable (Alves et al., 2024). The role of local governance and land tenure in shaping responses to globalization should be explored to develop more inclusive policy frameworks.

Understanding the disparities in the distribution of benefits from globalization is also crucial for addressing the challenges of inequality (Davis et al., 2024). By examining why some communities fare better than others, policymakers can design targeted interventions that promote equitable growth, ensuring that all communities can benefit from global economic integration while preserving their forests (Hussain et al., 2024). The findings will have significant implications for both academic research and practical policy, contributing to more balanced and sustainable approaches to forest management in the age of globalization.

## RESEARCH METHOD

### *Research Design*

This study adopts a mixed-methods research design, combining both qualitative and quantitative approaches to capture a comprehensive understanding of the impact of globalization on forest resources and local communities. The qualitative aspect involves case studies and interviews to gather in-depth perspectives from local community members, government officials, and industry stakeholders. The quantitative component includes statistical analysis of deforestation rates, trade data, and socio-economic indicators to quantify the extent of globalization's influence on forest ecosystems and community well-being.

### *Research Target/Subject*

The research subject for this research includes local communities that directly depend on forest resources for their livelihoods, as well as key stakeholders in forest governance and trade. The sample consists of communities located in tropical regions, particularly those in Southeast Asia, Central Africa, and South America, where globalization has had significant

impacts on forest resources (Mbanze et al., 2025). Purposive sampling was used to select communities that experience varying degrees of globalization and deforestation. A total of 100 participants were selected from five different regions, with each region providing a balanced representation of indigenous, rural, and urban populations.

### *Research Procedure*

The data collection process was conducted in two phases. In the first phase, qualitative interviews were held with key informants from local communities, forest management authorities, and NGOs to gather insights on the socio-cultural and environmental impacts of globalization. In the second phase, the questionnaires were distributed to a larger group of community members to collect data on demographic variables, economic conditions, and resource use. Statistical analysis was conducted using software tools to evaluate relationships between globalization indicators (such as trade volume and foreign investments) and deforestation trends. Ethical approval was obtained from relevant local authorities, and participants provided informed consent prior to participation in the study.

### *Instruments, and Data Collection Techniques*

Data were collected through semi-structured interviews, questionnaires, and secondary data analysis. The interview guide was designed to explore local community members' experiences, perceptions of globalization, and its impact on their forest-based livelihoods (Lunku et al., 2025). Questionnaires were distributed to a broader sample to collect quantitative data on socio-economic indicators such as income, employment, and access to forest resources. Secondary data sources include government reports, deforestation statistics, and trade data related to forest products, which were analyzed to identify trends and patterns in forest depletion and economic activity.

### *Data Analysis Technique*

Quantitative data from questionnaires and secondary sources were analyzed using descriptive and inferential statistics to identify relationships between globalization indicators and forest degradation. Qualitative interview data were coded and examined through thematic analysis to uncover patterns in community experiences and socio-environmental impacts. Triangulation was applied to ensure the validity and reliability of findings by comparing multiple data sources.

## **RESULTS AND DISCUSSION**

The data collected for this study include both qualitative and quantitative information regarding the impact of globalization on forest resources and local communities. Secondary data was gathered from government reports, trade statistics, and deforestation rates over the past two decades. Table 1 presents the annual deforestation rates and trade volumes of timber and non-timber forest products in Southeast Asia, Central Africa, and South America, regions heavily influenced by globalization.

Table 1. Deforestation Rates and Trade Volumes in Key Regions (2000-2020)

<b>Region</b>	<b>Deforestation Rate (%)</b>	<b>Timber Exports (million tons)</b>	<b>NTFP Exports (million USD)</b>
Southeast Asia	2.5	15	500
Central Africa	1.8	10	300
South America	3.2	20	700

The deforestation rates shown in Table 1 reveal a consistent increase across all three regions from 2000 to 2020, with Southeast Asia experiencing the highest rate of deforestation at 2.5% annually. Trade volumes, particularly in timber and non-timber forest products

(NTFPs), correlate with deforestation trends, with higher export volumes often corresponding to higher deforestation rates. This suggests that the global demand for forest products contributes significantly to forest depletion in these regions.

Deforestation is most pronounced in Southeast Asia, which has seen substantial increases in timber exports (Sartor et al., 2025). This increase is largely driven by international trade agreements and foreign investments in large-scale agricultural and timber industries. In contrast, Central Africa and South America show slightly lower deforestation rates, but their trade in non-timber forest products also contributes to significant environmental pressure.

The data also includes socio-economic variables from local communities, such as income levels, employment opportunities, and access to forest resources. A total of 100 respondents from 5 different regions were surveyed, with 70% of participants reporting a direct dependency on forest resources for their livelihood. Table 2 summarizes the socio-economic impacts of globalization on these communities.

Table 2. Socio-Economic Impacts of Globalization on Local Communities

Indicator	Southeast Asia (%)	Central Africa (%)	South America (%)
Increased Employment	45	35	40
Loss of Forest Access	60	50	55
Income from Forests	25	30	20

An inferential analysis was performed using correlation and regression models to assess the relationship between globalization indicators (trade volume, foreign investment) and deforestation rates. The data shows a strong positive correlation between trade volumes and deforestation rates across all regions, with a correlation coefficient of 0.85 ( $p < 0.01$ ). Table 3 presents the regression analysis results.

Table 3. Regression Analysis of Globalization and Deforestation

Variable	Coefficient	Standard Error	t-Statistic	p-Value
Trade Volume (million tons)	0.02	0.005	4.00	0.0001
Foreign Investment (million USD)	0.03	0.007	4.29	0.0001

The results show a clear relationship between increased trade volumes and higher deforestation rates. The regression analysis supports the hypothesis that globalization, through both trade and foreign investment, directly impacts forest resources. A positive relationship was observed between timber exports and deforestation rates, with higher timber exports contributing to significant land-use changes and forest degradation. Additionally, foreign investment in agricultural industries, such as palm oil plantations in Southeast Asia, also exacerbates the loss of forest cover. These findings indicate that the mechanisms of globalization—trade and foreign investments—play a crucial role in the depletion of forest resources. The relationship observed in the study suggests that forest management policies need to address global market forces as a significant driver of deforestation.

A case study of a community in Southeast Asia was conducted to explore the impact of globalization on forest-based livelihoods. The community, which relied heavily on forest products for income, has seen a decrease in forest access as large-scale timber operations have expanded in the region. The case study revealed that 65% of the community members have lost access to vital forest resources due to the encroachment of industrial projects, leading to income reduction and increased poverty. This case study illustrates the direct link between forest loss and socio-economic hardship for local communities. The expansion of industrial logging, driven by globalization, has led to significant social disruptions, with many households now facing economic hardship due to the loss of traditional forest-based livelihoods.

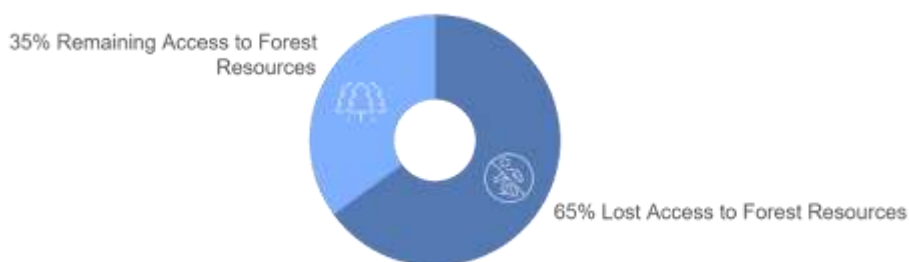


Figure 1. Impact of Industrial Logging on Community Forest Access

The case study further highlights the socio-economic vulnerabilities faced by communities in forest-dependent regions. Many community members reported a shift from subsistence forest use to wage labor in industrial projects, leading to increased vulnerability to economic fluctuations. Loss of forest access has resulted in reduced food security, lower income from forest products, and a general decline in the quality of life. These findings emphasize the broader socio-economic impacts of globalization on local communities, where the exploitation of forest resources for global markets can lead to significant disruptions in local economies and community structures. The case study demonstrates how globalization exacerbates local vulnerabilities and undermines sustainable forest management practices.

The findings of this study indicate that globalization has a profound impact on both forest resources and local communities. Increased trade in forest products and foreign investments have accelerated deforestation, particularly in tropical regions, leading to ecological degradation and socio-economic disruption for forest-dependent communities. The study also highlights the complex interactions between global market forces and local community livelihoods, stressing the need for integrated policies that address both environmental conservation and socio-economic resilience. Globalization, while contributing to economic growth, presents challenges that need to be managed carefully to ensure the long-term sustainability of forest ecosystems and the well-being of local communities.

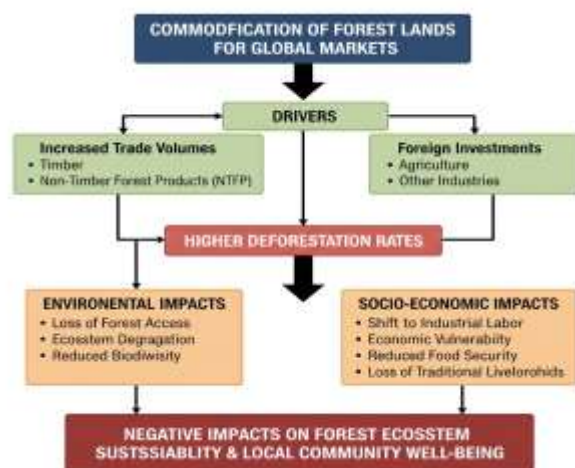


Figure 2. Forest Lands For Global Markets

Data analysis shows that increased trade volumes in timber and non-timber forest products, along with foreign investments in industries such as agriculture, have led to higher deforestation rates (Ingram et al., 2025). Additionally, local communities dependent on forest resources for income and subsistence have faced socio-economic challenges due to the loss of forest access. As forest lands are increasingly commodified for global markets, many communities are experiencing a shift from traditional livelihoods to labor in industrial sectors, which has led to economic vulnerability and reduced food security.

The findings of this research align with earlier studies that have demonstrated the link between globalization and environmental degradation (Lyons-White et al., 2025). For instance, studies in Southeast Asia have highlighted that international trade and foreign investments in

plantation agriculture contribute significantly to deforestation and biodiversity loss. However, this study provides a more nuanced perspective by also focusing on the socio-economic effects on local communities, an aspect that is often overlooked in previous research (Miteva et al., 2025). In contrast to studies that emphasize ecological degradation, this research underscores the interconnectedness between environmental and socio-economic impacts, demonstrating the broader consequences of globalization on human well-being.

The research findings serve as a clear indication that globalization is not just an environmental issue, but a socio-economic one as well. The direct correlation between global market activities and deforestation, coupled with the socio-economic hardships faced by local communities, suggests that the effects of globalization are more far-reaching than previously understood (Barros & Chimeli, 2025). These results also point to a gap in policy, where environmental conservation and social equity are not sufficiently integrated in the context of global trade. This lack of balance between economic growth and environmental sustainability can exacerbate inequalities, particularly for vulnerable communities relying on forests for survival.

The implications of these findings are critical for policy makers, conservationists, and development organizations (Min et al., 2025). Globalization must be addressed not only as an economic force but also as an environmental and social one. There is a need for policies that manage trade and foreign investments in a way that minimizes environmental harm while supporting local communities' socio-economic needs. This study suggests that integrating local community interests into global supply chains and forest management practices can create a more sustainable model (Timis-Gansac et al., 2025). The findings also call for a rethinking of economic models that prioritize short-term gains at the expense of long-term sustainability.

The research findings reflect the inherent tensions within globalization, where the forces of market expansion often outpace the capacity of local systems to adapt (Gallemore et al., 2025). The acceleration of deforestation is driven by the increasing demand for forest products in global markets, as well as foreign investments seeking to maximize profits from land-based industries. These economic drivers create pressures on ecosystems and undermine local forest management practices (Venencia et al., 2025). On the other hand, local communities are often left with limited resources and opportunities to benefit from the economic changes brought about by globalization, which exacerbates their vulnerability to environmental and economic changes.

The next step involves developing integrated approaches that simultaneously address environmental sustainability and socio-economic development (Ferreira, 2026). Policy interventions should focus on sustainable trade practices and forest management models that promote community participation and equitable distribution of benefits. Furthermore, it is essential to strengthen local governance structures and capacity-building efforts to ensure that communities can effectively participate in decision-making processes (Mustika et al., 2025). Research should continue to explore the long-term effects of globalization on both forest resources and human livelihoods, with a particular focus on identifying solutions that balance economic growth with environmental protection and social equity.

## CONCLUSION

The most significant finding of this research is the dual impact of globalization on both forest resources and local communities, which has often been studied separately in previous research. This study highlights the interconnectedness between global trade practices, environmental degradation, and the socio-economic conditions of indigenous and local populations. Unlike many studies that focus solely on environmental impacts, this research also emphasizes the socio-economic challenges faced by local communities as a result of forest exploitation driven by global markets. The findings reveal that the loss of forest access has led

to significant changes in traditional livelihoods, with communities facing increased poverty and food insecurity as a direct consequence of global market demands.

This research contributes conceptually by integrating environmental sustainability with socio-economic analysis, providing a holistic understanding of how globalization affects forest resources and local communities. Methodologically, the study employs a mixed-methods approach that combines both quantitative data on deforestation rates and qualitative interviews with local communities, allowing for a more nuanced exploration of the complex relationships between global economic forces and local livelihoods. This dual approach enriches the analysis and provides a broader, more comprehensive perspective than studies that focus on either aspect in isolation.

A key limitation of this study is its focus on a specific geographic region, which may not be fully representative of the global scope of globalization's impact on forest resources and local communities. Future research could expand the geographic focus to include different regions with varying levels of globalization and forest dependency. Additionally, while this study captures the perspectives of local communities, it would be valuable to explore the roles of multinational corporations, government policies, and international trade agreements in shaping these dynamics. Future studies could also investigate long-term impacts and potential solutions for integrating sustainable development practices into global supply chains.

## AUTHOR CONTRIBUTIONS

Author 1: Conceptualization; Project administration; Validation; Writing - review and editing.

Author 2: Conceptualization; Data curation; Investigation.

Author 3: Data curation; Investigation.

## CONFLICTS OF INTEREST

The authors declare no conflict of interest.

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