

Jurnal Sylva Lestari

Editor-in-Chief: Wahyu Hidayat (University of Lampung, Indonesia)

Editorial Boards:

Nam Hun Kim (Kangwon National University, South Korea)

Lubos Kristak (Technical University, Slovakia)

Petar Antov (University of Forestry, Bulgaria)

Nadir Ayrilmis (Istanbul University, Turkey)

Md Mafizur Rahman (Islamic University Bangladesh, Bangladesh)

Sugeng Prayitno Harianto (University of Lampung, Indonesia)

Christine Wulandari (University of Lampung, Indonesia)

Khongor Tsogt (Institute of General and Experimental Biology, Mongolia)

Lee Seng Hua (Universiti Teknologi MARA, Malaysia)

Yue Qi (Chinese Academy of Forestry, China)

Muhammad Adly Rahandi Lubis (National Research and Innovation Agency, Indonesia)

Apri Heri Iswanto (Universitas Sumatera Utara, Indonesia)

Moehar Maraghiy Harahap (Universitas Sumatera Utara, Indonesia)

Agus Setiawan (University of Lampung, Indonesia)

Slamet Budi Yuwono (University of Lampung, Indonesia)

Samsul Bakri (University of Lampung, Indonesia)

Melya Riniarti (University of Lampung, Indonesia)

Indra Gumay Febryano (University of Lampung, Indonesia)

Bainah Sari Dewi (University of Lampung, Indonesia)

Hari Kaskoyo (University of Lampung, Indonesia)

Gunardi Djoko Winarno (University of Lampung, Indonesia)

Rahmat Safe'i (University of Lampung, Indonesia)

Arief Darmawan (University of Lampung, Indonesia)

Ceng Asmarahman (University of Lampung, Indonesia)

Afif Bintoro (University of Lampung, Indonesia)

Managing Editors:

Hendra Prasetya (National Research and Innovation Agency, Indonesia)

Yulia Rahma Fitriana (University of Lampung, Indonesia)

Rudi Hilmanto (University of Lampung, Indonesia)

Duryat (University of Lampung, Indonesia)

Susni Herwanti (University of Lampung, Indonesia)

Rusita (University of Lampung, Indonesia)

Trio Santoso (University of Lampung, Indonesia)

Dian Iswandaru (University of Lampung, Indonesia)

Machya Kartika Tsani (University of Lampung, Indonesia)

Inggar Damayanti (University of Lampung, Indonesia)

Intan Fajar Suri (University of Lampung, Indonesia)

Layout Editors:

Bagus Saputra (Chungnam National University, South Korea)

Mia Putri Utami (University of Lampung, Indonesia)

Muhammad Dimaz Nugraha (University of Lampung, Indonesia)

Mailing Address:

Department of Forestry, Faculty of Agriculture, Universitas Lampung

Jl. Soemantri Brojonegoro No.1, Bandar Lampung 35145, Indonesia

E-mail: sylva.lestari@fp.unila.ac.id

Jurnal Sylva Lestari (JSL) is an open-access journal dedicated to the advancement of science in the field of forestry. The journal's scope encompasses a wide range of topics, including:

- Forest Management: Strategies and practices for the sustainable management of forest resources.
- Forest Resources Conservation: Approaches to preserving and protecting forest ecosystems and biodiversity.
- Silviculture: Techniques and principles of cultivating and managing forest stands.
- Forest Socioeconomics: The interplay between forest ecosystems and local communities, including economic and social impacts.
- Forest Products and Wood Science: Research on the wood science and the utilization, properties, and technology of timber and non-timber forest products.

JSL primarily serves as a medium for the dissemination of original theoretical and experimental research, as well as comprehensive technical reviews. It publishes one volume annually, which consists of three issues delivered in January, May, and September. The journal is managed and published by the Department of Forestry, Faculty of Agriculture, University of Lampung. Through its rigorous peer-review process, JSL aims to contribute to the global dialogue on forest science and management, providing valuable insights and fostering innovation in the field.

Jurnal Sylva Lestari

Vol. 13, No. 1, January 2025

Full Length Research Article

Evaluating Tourism Performance through Tourist Perceptions: A Case Study of Petengoran Mangrove Tourism in Lampung, Indonesia

Kut Murniati • Maya Riantini • Ayla Vilin Windyata 1

Cost Analysis of Skyline-assisted Felling Technique in Private Forests in Probolinggo, Indonesia

Ahmad Budiaman • Hardjanto • Yohana Natalia..... 21

Antitermite Activity of *Eucalyptus pellita* Bark Extract

Riki Andika • Arinana Arinana • Rita Kartika Sari • Anindya Intan Rahmawati •
Setiawan Khoirul Himmi 32

Feeding Preferences of Subterranean Termite *Schedorhinotermes javanicus* on Tusam (*Pinus merkusii*) Wood

Agung Nugrawan Kutana • Dodi Nandika • Arinana Arinana 45

Disease Spectral Identification and Analysis on the Bark of Gmelina (*Gmelina arborea Roxb*)

Annie Onez Ayag • Kyra Luminarias Padonat • Kizza Eyn Sulima Minguita •
Joey Arles Ongue Vergara • Jade Capinpuyan Jusoy • Cornelio Sacquiap Casilac Jr 60

Diversity and Ecophysiological Performance of Coffee under Dry-Field and Homegarden Agroforestry in Yogyakarta

Harsanto Mursyid • Priyono Suryanto • Suri Fadhilla • Betha Silmia •
Febri Arif Cahyo Wibowo 75

Influence of Elevation on *Falcataria moluccana* [Miq.] Barneby & J.W. Grimes Gall Rust Incidence and Severity in Agusan del Norte, Philippines

Rece Ruby Gera Tering • Nympha Ellarina Branzuela • Marvin Arroyo Batiancela •
Rosalinda Palo Tutor 90

Enhancing Afforestation Success: Seedling Survival and Growth in Relation to Planting Pit Digging and Vegetation Control in Rashaya Al-Wadi, Lebanon

Mohammad Saleh • Safaa Baydoun • Wael Mostafa • Hisham Salman • Jamilah Borjac 102

Jurnal Sylva Lestari

Vol. 13, No. 1, January 2025

Full Length Research Article

Estimating Vegetation Density Dynamics, Tree Diversity, and Carbon Stock in the Agroforestry System of the Community Forest in Bogor Regency, Indonesia

- Adisti Permatasari Putri Hartoyo • Lina Karlinasari • Fitta Setiajiati • Arif Kurnia Wijayanto •
Haikal Zaky Rifana • Hilmi Naufal Madani • Handi Satriawan • Rita Rahmawati •
Ulfah Juniarti Siregar 120

Effects of Storage-Induced Moisture Loss on Germination Performance and Oil Yield of *Pongamia pinnata*

- Deddy Dwi Nur Cahyono • Aam Aminah • Atfi Indriany Putri • Dida Syamsuwida • Danu •
Dharmawati Djam'an • Eliya Suita • Nurma Wati Siregar • Hani Sitti Nuroniah •
Abdul Haki Lukman • Fauzi Bahanan • Eka Rachmi Budi Utami..... 145

Spatial Model of Carbon Stocks in Special Purpose Forest Area (KHDTK) Mungku Baru, Central Kalimantan Province, Indonesia

- Nanang Hanafi • Ahmad Jauhari • Gusti Muhammad Hatta • Hafizianor..... 159

Institutional Analysis of Sustainable Management of the Sekampung Watershed, Lampung Province, Indonesia

- Edison • Irwan Sukri Banuwa • Slamet Budi Yuwono • Abdullah Aman Damai •
Kuswanta Futas Hidayat • Erdi Suroso • Qadar Hasani..... 173

Dimensional Stability and Wettability of Modified Samama (*Anthocephallus macrophyllus*) Wood with Boron, Citric Acid, and Heat Treatment

- Trisna Priadi • Miranti Kusuma Wardhani • Guruh Sukarno Putra • Tekat Dwi Cahyono..... 190

Analysis of Alfisol Soil Infiltration Rate on Various Land Cover and Its Effect on Soil Erodibility in Mount Bromo Special Purpose Forest Area, Indonesia

- Siti Maro'ah • Ongko Cahyono • Dwi Priyo Ariyanto • Tesalonika Pramudita 203

Productivity of Cajuput Stands at Various Age Levels in Telawa Forest Management Unit, Central Java, Indonesia

- Alvien Gusti Prasditio • Ana Agustina • Rissa Rahmadwiati • Yus Andhini Bhakti Pertiwi •
Rezky Lasekti Wicaksono • Supriyadi 218

Carbon Storage Potential and Economic Valuation in the Arboretum of Forest Area with Special Purpose (KHDTK) Aek Nauli, Indonesia

- Nur Ramadhani • Rezky Lasekti Wicaksono • Rissa Rahmadwiati..... 234

Jurnal Sylva Lestari

Vol. 13, No. 1, January 2025

Full Length Research Article

Field Evaluation of Biochar Application on the Early Growth of *Falcataria moluccana*: Effects of Pyrolysis Temperatures and Biochar Application Rates

- Bangun Adi Wijaya • Melya Riniarti • Wahyu Hidayat • Hendra Prasetia • Jiho Yoo •
Byung Bae Park..... 248

Kelekak Agroforestry in Central Bangka, Indonesia: Species Diversity, Challenges, and Conservation Strategies

- Primadhika Al Manar • Ervizal Amir Muhammad Zuhud • Agus Hikmat • Syamsul Hidayat •
Robika, Meilanto • Radil Wilyan • Ikram Kurnia Munggaran 264

Impact of Mangrove Land Use on the Carbon Stock in an Abandoned Shrimp Pond: A Case Study at Samut Songkhram Campus, Suan Sunandha Rajabhat University, Thailand

- Jetsada Wongprom • Anantachai Inthiraj • Niwat Songsin • Kanokporn Somporn •
Prisna Pianjing 283

Conservation Challenges for Endangered Mammals: Research Gaps and Collaboration Needs Based on Stakeholder Bibliometric Analysis

- Novriyanti • Damayanti Buchori • Burhanuddin Masy'ud • Rinekso Soekmadi..... 296

Bending Strengths of Large-leaf Mahogany (*Swietenia macrophylla* King) and Mangium (*Acacia mangium* Willd) Commercial Lumbers in Northeastern Mindanao, Philippines

- Rey Naldoza Cossid • Jan Michael Ampong Torralba • John Harold Merantes Clemente •
Chary Joyce Gabriel Villaflor • Catherine Mhae Buctuan Jandug •
Cornelio Sacquiap Casilac Jr 317

Erratum

Gall Rust Disease Dynamics in *Falcataria falcata* L. Across Elevations in Agusan del Norte, Philippines

- Rece Ruby Gera Tering • Adrian Monteroso Tulod • Nympha Ellarina Branzuela •
Marvin Arroyo • Batiancela • Rosalinda Palo Tutor • Jupiter Vivicente Casas •
Mark Jun Atchueta Rojo • Dennis Morgia • Gilbero 332