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Economic valuation of ecosystem services in the Luppung Mangrove Forest, South Sulawesi, Indonesia

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[Irma Sribianti](#) ;[MUTHMAINNAH MUTHMAINNAH](#) ;[HIKMAH HIKMAH](#) ;[MIFTAHUL KHAIR](#)

Abstract

Sribianti I, Muthmainnah, Hikmah, Nirwana, Hasanuddin, Khair M. 2025. Economic valuation of ecosystem services in the Luppung Mangrove Forest, South Sulawesi, Indonesia. Asian J For 9: 322-331. Mangrove ecosystems are globally recognized for their critical ecological and economic functions, but remain vulnerable to degradation. This study quantifies the Total Economic Value (TEV) of provisioning, regulating, and supporting ecosystem services provided by the Luppung Mangrove Forest in Bulukumba District, South Sulawesi, Indonesia, using benefit transfer, market price, and replacement cost methods. Using a structured TEV framework, we gathered data through field surveys, structured interviews, and secondary sources. To figure out the value of these services, we looked at several approaches like market prices, replacement costs, and benefit transfers, while being mindful of some limitations and possible overlaps in our methods. According to our research, the Luppung ecosystem in the mangrove area has an estimated annual