

Health Assessment of Vegetation Composition in the Reclamation Area of PT. Natarang Mining, Tanggamus Regency, Lampung Province

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Abstract

Reclamation is a recovery activity in mining areas, one of which is revegetation. The success of revegetation plants can be seen from the health of the composition and structure of the vegetation when the trees are six years old and above. This study aims to determine the health value of vegetation composition in the reclamation area of PT. Natarang Mining, Tanggamus Regency, Lampung Province. The location of this research is in the area around the PT. Natarang Mining, Way Linggo Forest, Bandar Negeri Semuong, Tanggamus Regency covering an area of 2.97 Ha. The study was conducted through vegetation analysis using the circular plot method for monitoring forest health and assessing the health of vegetation composition based on the tree damage index at the plot level. The results showed that tree vegetation obtained 12 species. The most common tree species found was *Falcataria mollucana* (sengon) which amounted to 22 individuals. The most significant contribution of tree species indicated by the highest important value index was *Falcataria mollucana*. The most damage found in most of the plots was on the lower trunk (code 3) and branches (code 7). Types of open wound damage (code 03) and broken/dead branches (code 22) were the most dominant causes of damage, with an average damage rate of 35%. The health value of the vegetation composition has a value range of 1.2-2.0. The average health value of the vegetation composition is 1.5, which is included in the medium category.

Keywords: composition, health, reclamation, revegetation, vegetation

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