

Forest Health Study in Efforts to Preserve Community Forest Agroforestry Patterns in Kubu Batu Village, Gedong Tataan District, Pesawaran Regency, Lampung Province

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Abstract. The agroforestry pattern community forest in Kubu Batu Village, Gedong Tataan District, Pesawaran Regency, Lampung Province has essential values for the community, both economically, ecologically, and socially. Therefore, to ensure the sustainability of the community forest, a forest health assessment is carried out. Forest health assessment is one of the criteria for achieving community forest sustainability. This study aims to determine the condition (status) and ecological factors that affect the health level of community forests using agroforestry patterns in Kubu Batu Village, Gedong Tataan District, Pesawaran Regency, Lampung Province. The research methods used are the Forest Health Monitoring method to measure forest health with the Forest Health Assessment Information System (SIPUT) and spear rank correlation to determine the relationship between ecological factors and the health level community forests using agroforestry patterns. The results showed the condition (status) of community forest health in agroforestry patterns with good categories in cluster plots 2, 4, 5, and 6, moderate categories in cluster plots 1 and 7, and bad categories in cluster plots 3. Strongly positive/unidirectional agroforestry patterns are the crown condition and tree species diversity. This condition illustrates that it preserves community forests using agroforestry patterns in Kubu Batu Village is necessary to focus tree species diversity attention on tree crown parameters. Thus, the health status of community forest agroforestry patterns in Kubu Batu Village is good. This proves that the people there have made efforts to maintain the sustainability of their community forests.