Analysis of forest health status in the Panca Indah Lestari Community Plantation Forest, Bukit Layang Village, Bangka District, Bangka Belitung Province

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Abstract. Currently, community plantation forests play an essential role in providing wood supply for the timber industry with due regard to sustainability. One way to achieve the sustainability aspects of forest management is by conducting monitoring forest health. This study aims to determine the value of the health status of the Panca Indah Lestari Community Plantation Forest. This community plantation forest is located in Bukit Layang Village, Bakam District, Bangka Regency, Bangka Belitung Province. The stages of this research include: determining the number of cluster-plots using sampling intensity based on the area of community plantation forest, making cluster plots based on Forest Health Monitoring (FHM) cluster-plot design, collecting data by measuring the ecological indicators of forest health (productivity and vitality) based on the FHM method, as well as data analysis and processing using the Forest Health Assessment Information System. The results showed that the health status of the Panca Indah Lestari Community Plantation Forest had a range of values ranging from 1,890 - 5,530. The average health status value of Panca Indah Lestari Community Plantation Forest is 4,210, which was included in the medium category. Thus, the value of the health status of community plantation forests illustrates that the conditions for productivity and vitality indicators are insufficient. Knowing the forest condition's status value helps managers provide recommendations in making decisions on sustainable community plantation forest management.