

Contribution of Community Forest of Banyumas Regency on CO2 Absorption

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Abstract	<p>A study on the absorption of carbon dioxide (CO₂) in the plant was conducted at low land and private highland forest. The purpose of this study was to get plant species with high CO₂ absorption in both lowland and upland of the private forest. The study used a survey method. The location was grouped into two strata, namely lowland and highland of the private forest. The sample of composition of the private forest vegetation at both lowland and highlands location was carried out by using quadrat 10 m x 10 m. The capacity of the plant CO₂ absorption was analyzed through the mass of carbohydrates. The results showed that there are 27 species of plants that consistently composed at both strata of private forest. These species consist of both trees, and crops with the number of species were 21 and 6 species, respectively. Species of trees that have a high absorption of CO₂ are <i>Tectona grandis</i>, <i>Neolamarckia cadamba</i>, <i>Havea brasiliensis</i>, <i>Coffea robusta</i>, <i>Gmelina arborea</i>, <i>Cocos nucifera</i>, <i>Mangifera indica</i>, <i>Hibiscus macrophyllus</i>, <i>Canna edulis</i>, <i>Vigna sinensis</i>, <i>Zea mays</i>, and <i>Calocasia esculenta</i>. The results of this study can be used as a basis for preparing a sustainable private forest pattern-based on the high absorption of CO₂.</p>
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