

V. CONCLUSION AND RECOMMENDATION

5.1 Conclusions

From research that had been done can be concluded as follows:

1. The diversity of plant species at the Way Canguk Research Station, Bukit Barisan Selatan National Park is classified as high species diversity with $H' = 3.30$ at tree strata and $H' = 3.28$ at sapling strata. If a community contains a high level of biodiversity, it is considered to have high species diversity. A community, on the other hand, is said to have low species variety if it is made up of only a few species.
2. The total of above ground biomass that storage in each carbon pool in the Way Canguk Research Station area, Bukit Barisan Selatan National Park is 763.48 ton/ha and the total carbon stock is 358.828 ton/ha which is included in the category of High Density Forest (HK 3).

5.2 Recommendations

From the research that has been done, it is hoped that in the future there will be more research related to estimating carbon stocks in various types of forest ecosystems. It is also essential to conduct annual carbon stock monitoring at the Way Canguk Research Station using the most up-to-date methods, which, if assessed, are more accurate in estimating biomass and carbon stocks. Plants in the Dipterocarpaceae family, for example, must be conserved because they have a great potential for storing biomass and carbon stocks.