

Optimization of Using Cow's Manure Fertilizer at Different Rates on Growth and Production of *Salvinia* sp as Forage Feed

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Abstract	<p><i>Salvinia</i> sp is a high-quality aquatic plant with a high potential forage source for animals. The purpose of this study was to determine the effect of the use of cow manure on the growth and production of <i>Salvinia</i> sp crops. The variables in this study are leaf cover area (LCA), replication time, leaf diameter, and biomass production of <i>Salvinia</i> sp plants. The design used in this study was a completely randomized design (CRD) with four treatments of cow manure as fertilizer, consecutively: without manure; 5 g/L; 10 g/L; and 15 g/L. Each treatment has five replicates. The results showed that cow manure fertilizer significantly increased leaf cover area, replication time, leaf diameter, and biomass production of <i>Salvinia</i> sp. Cow manure fertilizer at a rate of 15 g/L is the best treatment. Increase in leaf cover area = 557.48 cm²; replication time = 2.99 days; fresh weight = 8.80 g; dry matter = 0.72 g. Results of linear regression analysis showed that the replication time of leaf cover area had a significant relationship with crop biomass production of <i>Salvinia</i> sp. Keywords: Growth, Production, Cow Manure Fertilizer, <i>Salvinia</i> sp</p>
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