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The utilization of water hyacinth (*Eichhornia crassipes*) as substitute in complete feed on society sheep farming

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ABSTRACT:

Introduction

The aim of this study is to describe the effect of Water Hyacinth (WH) as a substitution for Complete Feed (CF) in the society sheep farming, especially on the production performance.

Material and Methods

The methodology used was Randomized Block Design with four treatments and four blocks. The treatment consisted of WH 0 (0% WH + 100% CF), WH 15 (15% WH + 85% CF), WH 30 (30%WH + 70% CF), and WH 45 (45% WH + 55% CF).

Result and Discussion

All the data were analyzed using analysis of variance and least significant difference. The result showed that the most less economical was 45% water hyacinth utilization and 55% complete feed by feed intake (DM = 84.73 g/W0.75/h/d, CP =11.80 g/W0.75/h/d, and TDN = 44.07 g/W0.75/h/d); digestible (DM = 51.45%, and OM = 50.91%); daily gain of 109.17 g/h/d; feed conversion 6.75; and feed cost per gain is Rp 7,060.05 /g.

Keywords:
Complete feed, production performance, sheep, water hyacinth

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