

Peformance of Bali Cattles Fed with Various Levels of Oil Palm Frond Ammoniated

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Abstract : The research objective was to determine the productivity of cattle fed a complete ration with ammoniated based of oil palm-frond supplemented by Rumen Microbes Growth Factor (RMGF). The research used Randomized Block Design applying 4 rations as treatment and 4 groups cattle. The treatments were: A (60% oil palm frond ammoniated + 40% concentrate + RMGF); B (50% oil palm frond ammoniated + 50% concentrate + RMGF); C (40% oil palm frond ammoniated + 60% concentrate + RMGF); and D (30% oil palm frond ammoniated + 70% concentrate + RMGF). The measured parameters were dry matter (DM) and organic matter (OM) intake, daily weight gain (DWG), feed efficiency, total digestible nutrient (TDN), and digestibility of crude protein (CP), neutral detergent fiber (NDF), acid detergent fiber (ADF), cellulose, hemicellulose. Statistical analysis showed that the treatment had no significant effect ($P > 0.05$) on DM intake, OM intake, daily weight gain, feed efficiency, digestibility of DM, OM, CP, TDN, NDF, hemicellulose but had a highly significant effect ($P < 0.01$) on digestibility of ADF and cellulose. All treatments with different ratio (oil palm frond ammoniated: concentrate : RMGF) had no different effect on cattle productivities.

Keywords : oil palm frond ammoniated, digestibility, rumen microba growth factor, Bali cattle

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