ABSTRACT

Improving Rice Straw Feeding with Supplementation Technology on Performance of Female Peranakan Ongole (PO) Cattles in Rembang Regency

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Beef cattle fattening and breeding are the main programs done by people in Rembang Regency in the Province of Middle Java. Peranakan Ongole (PO) cattle is a local beef cattle that is usually kept by people in Rembang Regency. Rice straw and rice bran are usually used as feeds by the farmers, especially during dry season. Supplementation to this kind of diet is aimed at increasing the female PO cattle performance. Therefore, the objective of this experiment is to study the effect of rice straw supplementation on production performance. This experiment was conducted in Rembang Regency for 40 days using 16 female PO cattles with 4 treatments and 4 blocks. Treatments were R1 = 100% rice straw, R2 = R1 + 2 kg rice bran, R3 = R2 + 0.4 kg nutrient enriched supplement (SKN) and R4 = complete ration consisting of rice straw, rice bran and SKN. The variables observed were dry matter intake, average daily gain and body size measurements with its average daily growths (body length, chest girth, wither height, chest width and chest depth). All data were collected and analyzed by analysis of variance with randomized block design. The results of this study showed that rice straw supplementation affected dry matter intake (P<0.01) and chest girth (P<0.05), but did not affect (P>0.05) significantly average daily gain, body length, wither height, chest width, chest depth and average daily growths of body size measurements (body length, chest girth, wither height, chest width and chest depth).

Keywords: performance, PO cattle, rice straw, supplementation, Rembang Regency