

PERTAMBAHAN BERAT BADAN HARIAN DOMBA EKOR TIPIS DENGAN SUPLEMENTASI *Spirulina platensis* PADA PAKAN KONSENTRAT

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INTISARI

Penelitian ini bertujuan mengkaji penambahan berat badan harian (PBBH) Domba Ekor Tipis (DET) dengan suplementasi *Spirulina platensis* pada pakan kangkung kering dan konsentrat. Penelitian dilakukan di Mendo Galak Farm Yogyakarta bulan November hingga Desember 2020. Sepuluh ekor DET betina berumur sekitar lima bulan dengan berat rata-rata $13,66 \pm 2,31$ kg dibagi menjadi dua kelompok, kelompok kontrol dan perlakuan. Kelompok kontrol diberi pakan konsentrat 400 g/ekor/hari dan kangkung kering *ad libitum*; kelompok perlakuan diberi pakan yang sama dengan penambahan *Spirulina platensis* (8 g/ekor/hari) dicampur pada konsentrat. Air minum diberikan secara *ad libitum*. Parameter yang diambil meliputi konsumsi pakan, PBBH, dan konversi pakan. Data konsumsi pakan dan konversi pakan dianalisis dengan deskriptif kuantitatif dan data PBBH diuji dengan *T test*. Hasil penelitian menunjukkan konsumsi konsentrat dan kangkung kering (berdasarkan bahan kering) kelompok kontrol berturut-turut sebesar 347,75 dan 488,80 g/ekor/hari; kelompok perlakuan sebesar 347,75 dan 490,49 g/ekor/hari. Pakan perlakuan tidak berpengaruh terhadap PBBH domba ($P < 0,05$). Pertambahan berat badan harian kelompok kontrol sebesar $153,80 \pm 40,31$ g/ekor/hari dan kelompok perlakuan $148,60 \pm 31,45$ g ($P > 0,05$). Konversi pakan kelompok kontrol sebesar $6,00 \pm 1,85$ dan kelompok perlakuan sebesar $6,16 \pm 1,67$. Kesimpulan dari penelitian yang dilakukan adalah penambahan *Spirulina platensis* sebanyak 8 g/ekor/hari pada pakan konsentrat tidak meningkatkan penambahan berat badan harian.

Kata kunci: *Spirulina platensis*, Domba Ekor Tipis, Pertambahan Berat Badan, pakan

DAILY WEIGHT ADDITION OF THIN-TAILED SHEEP WITH SUPPLEMENTATION OF *Spirulina platensis* IN CONCENTRATE FEED

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ABSTRACT

This research aims to assess the average daily gain (ADG) of thin-tailed sheep with *Spirulina platensis* supplementation in dried water spinach and concentrate feed. The research was conducted at Mendo Galak Farm Yogyakarta from November to December 2020. Ten female thin-tailed sheep aged around five months with an average weight of 13.66 ± 2.31 kg were divided into two groups, the control and treatment groups. The control group was given concentrate feed of 400 g/head/day and dried water spinach ad libitum; The treatment group received same ration added with 8 g of *Spirulina platensis*/head/day by mixing it in the concentrate. Drinking water was given ad libitum. The parameters taken include feed intake, ADG, and feed conversion. Data on feed consumption and feed conversion were analyzed by quantitative descriptive and ADG data was tested by T test. The feed intake of concentrate and dried water spinach (dry matter basis) of the control group were 347.75 and 488.80 g/head/day, respectively; for the treatment group were 347.75 and 490.49 g/head/day. The ADG of the control group was 153.80 ± 40.31 and the treatment group was 148.60 ± 31.45 g/head/day ($P > 0.05$). The feed conversion of the control group was 6.00 ± 1.85 and the treatment group was 6.16 ± 1.67 . It was concluded that the supplementation of 8 g/head/day of *Spirulina platensis* in concentrate feed has not been able to increase the ADG.

Keywords: *Spirulina platensis*, Thin-Tailed Sheep, Average Daily Gain