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**Pengaruh Substitusi Alfalfa Tropik dan Berbagai Legum terhadap Produksi Susu, Konsumsi Pakan, dan
Income Over Feed Cost pada Kambing Sapera**
Faishal Hilmy Andyka Putra, Prof. Ir. Bambang Suwignyo, S.Pt., MP., Ph.D., IPM., ASEAN Eng.
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PENGARUH SUBSTITUSI ALFALFA TROPIK DAN BERBAGAI LEGUM TERHADAP PRODUKSI SUSU, KONSUMSI PAKAN, DAN *INCOME OVER FEED COST* PADA KAMBING SAPERA

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh substitusi Alfalfa Tropik dalam pakan terhadap produksi susu, konsumsi pakan, dan *Income Over Feed Cost* (IOFC) pada kambing Sapera. Penelitian dilaksanakan di Prabhu Farm, Kalasan, Sleman, Yogyakarta selama 3 bulan menggunakan Rancangan Acak Lengkap dengan empat perlakuan dan tiga ulangan menggunakan 12 ekor kambing Sapera laktasi kedua dengan bobot rata-rata 40±5 kg. Pakan diberikan 5% dari bobot badan berdasarkan bahan kering serta perbandingan antara hijauan dan konsentrat yaitu 60:40 (dari 60% hijauan terdiri atas 50% Pakchong dan 50% Legume). Legume sebagai perlakuan terdiri atas Indigofera (P0), daun singkong (P1), Kaliandra (P2), dan Alfalfa Tropik (P3). Data dianalisis menggunakan analisis variansi satu arah. Hasil penelitian menunjukkan bahwa substitusi alfalfa tropik, Indigofera, daun singkong, dan kaliandra tidak berpengaruh terhadap produksi susu, konsumsi pakan, maupun IOFC.

Kata kunci: Alfalfa tropik, Efisiensi pakan, *Income Over Feed Cost*, Kambing Sapera, Produksi susu.

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EFFECTS OF TROPICAL ALFALFA AND VARIOUS LEGUME SUBSTITUTIONS ON MILK YIELD, FEED INTAKE, AND INCOME OVER FEED COST OF SAPERA GOATS

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ABSTRACT

This study was aimed to evaluate the effect of Tropical Alfalfa substitution in the diet on milk production, feed intake, and Income Over Feed Cost (IOFC) of Sapera goats. The experiment was conducted at Prabhu Farm, Kalasan, Sleman, Yogyakarta, for 3 months using a Completely Randomized Design with four treatments and three replications involving 12 second-lactation Sapera goats with an average body weight of 40 ± 5 kg. The diets were offered at 5% of body weight on a dry matter basis, with a forage-to-concentrate ratio of 60:40. The forage portion consisted of 50% Pakchong grass and 50% legumes. The legume treatments were *Indigofera* (P0), cassava leaves (P1), *Calliandra* (P2), and Tropical Alfalfa (P3). Data were analyzed using one-way analysis of variance (ANOVA). The results showed that Tropical Alfalfa substitution had no significant effect on milk production, feed intake, or IOFC of Sapera goats.

Keywords : Feed efficiency, Income over feed cost, Milk production, Sapera Goat, Tropical Alfalfa.