

ANGGARAN PARSIAL PADA PEMBESARAN PEDET JANTAN SAPI PERAH PERANAKAN FRIESIAN HOLSTEIN SEBAGAI BAKALAN SAPI POTONG DENGAN SUPLEMEN PROTEIN FERMENTASI BLOK

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INTISARI

Penelitian ini bertujuan untuk menganalisis peningkatan pertambahan bobot badan (PBB) pedet dan perubahan pendapatan terhadap penggunaan suplemen protein fermentasi blok dari usaha pembesaran Pedet Jantan Sapi Perah Peranakan *Friesian Holstein* (PFH) sebagai calon bakalan sapi potong. Suplemen berperan dalam meminimalisir terfermentasinya protein oleh mikrobia rumen, sehingga memaksimalkan protein pakan yang tercerna langsung oleh sel ternak. Peningkatan proses pencernaan protein pakan akan mempengaruhi peningkatan PBB pedet, peningkatan PBB diharapkan dapat meningkatkan pendapatan peternak. Materi yang digunakan yaitu 4 ekor pedet jantan Sapi Perah PFH yang sudah lepas sapih. Upaya meningkatkan jumlah ulangan, maka metode penelitian menggunakan rancangan percobaan *cross-over design*. Jumlah ternak yang tersedia kemudian dibagi secara acak menjadi dua kelompok perlakuan, yaitu perlakuan kontrol tanpa pemberian suplemen protein fermentasi blok dan perlakuan dengan pemberian suplemen protein fermentasi blok. Oleh karenanya masing-masing perlakuan mempunyai 4 ulangan. Pedet kelompok perlakuan diberi suplemen protein fermentasi blok sebanyak 0,2% bobot badan. Analisis data hasil pengamatan PBB pedet dianalisis dengan uji beda nyata *t-test*, sedangkan perubahan pendapatan dari penggunaan suplemen protein fermentasi blok dianalisis menggunakan analisis anggaran parsial. Hasil analisis statistik *t-test* pada PBB menunjukkan perbedaan nyata dengan PBB kelompok pedet perlakuan $40,00 \pm 10,71 \text{ kg/98 hari}$, sedangkan untuk pedet kontrol sebesar $19,75 \pm 8,54 \text{ kg/98 hari}$. Analisis anggaran parsial berdasarkan pemberian suplemen protein fermentasi blok yang diberikan pada pedet perlakuan selama 98 hari dapat meningkatkan pendapatan sebesar Rp 664.150,00. Penggunaan suplemen protein fermentasi blok dapat meningkatkan pertambahan bobot badan pedet dan pendapatan peternak dalam usaha pembesaran Pedet Jantan PFH sebagai bakalan sapi potong.

(Kata Kunci : Anggaran parsial, *cross-over design*, pakan tambahan, pedet Jantan Sapi Perah PFH, suplemen protein fermentasi blok).

PARTIAL BUDGETING ANALYSIS ON MALE FRIESIAN HOLSTEIN CALF REARING AS FEEDER CATTLE BUSINESS WITH FERMENTED PROTEIN BLOCK SUPPLEMENTATION

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ABSTRACT

The purpose of this research is analyze body weight gain and income change from Male Friesian Holstein Calf rearing as feeder cattle business that supplemented with fermented protein block. The supplement is used to minimize the fermentation of proteins by microbia rumen, there by maximizing feed proteins that are digested directly by livestock cells. Increased feed-feeding process will affect body weight gain's calves increase, the body weight gain's increase is expected to increase farmer's income. Materials used in this research were 4 Male Friesian Holstein Calves. To add the number of repetition, this research used cross over design method. The number of calves available were randomly separated into two groups of treatment, that are control treatment without fermented protein block supplementation and treatment with fermented protein block supplementation. Thus made each group have 4 repetitions. Calves in the treatment group were given fermented protein block as much as 0,2% of body weight. Data analysis for body weight gain were analyzed with t-test, while the income change from fermented protein block usage were analyzed using partial budgeting analysis. Statistical analysis result on body weight gain showed significant difference with body weight gain from the treatment group was $40,00 \pm 10,71$ kg/98 days, while the control group was $19,75 \pm 8,54$ kg/98 days. Partial budgeting analysis for fermented protein block supplementation in 98 days showed increase of income as much as Rp 664.150,00/head. Fermented protein block supplementation made an impact to body weight gain and income farmers revenue in the Male Friesian Holstein Calf rearing as feeder cattle business.

(Keywords: Partial budgeting, cross-over design, additional feed, Male Friesian Holstein Calf, fermented protein block supplementation).