



KEY WORDS

- ✓ Forage source
- ✓ Corn physical form
- ✓ Growth performance
- ✓ Rumen fermentation
- ✓ Simmental calves

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SİMENTAL IRKI BUZAĞILARDA SÜT EMME DÖNEMİNDE BAŞLANGIÇ RASYONLARINDA FARKLI KABA YEM KAYNAKLARI VE FARKLI MISIR İŞLEME METODLARININ KULLANILMASININ GELİŞİM PERFORMANSI VE RUMEN PARAMETRELERİ ÜZERİNE ETKİLERİ

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THESIS ABSTRACT

This study investigated the effects of forage (wheat straw and alfalfa hay) and corn grain physical form (ground or whole) in starter diets offered to pre-weaning Simmental calves on growth performance, rumen fermentation, and metabolic parameters. A total of 48 Simmental calves were assigned to four treatment groups according to a 2 × 2 factorial experimental design. In conclusion, forage source and corn grain physical form affected feed intake, feed efficiency, structural growth, and certain rumen fermentation characteristics, but did not affect growth performance.

APPLICATION AREAS OF THE THESIS RESULTS

The findings of this study may be used to improve pre-weaning calf feeding programs and the formulation of starter diets. The results may contribute to improving feed efficiency and supporting rumen development. Furthermore, this study provides a scientific basis for calf nutrition research and the development of new starter diet formulations.

ACADEMIC ACTIVITIES

1. Kara, Ç., Çevik, S., Orman, A., Karslıoğlu Kara, N., & Berge, A. C. (2026). Effects of Straw Particle Size and Physical Forms of Corn in Starter Diets on Growth Performance and Rumen Parameters in Holstein Calves During the Pre-Weaning Period. *Animals*, 16(4), 643. <https://doi.org/10.3390/ani16040643>
2. Karslıoğlu Kara, N., Galiç, A., & Çevik, S. (2021). Simmental ırkı ineklerde bazı verim özellikleri ve sağlık sorunları arasındaki ilişkinin belirlenmesi. *Akademik Ziraat Dergisi*, 10(2), 411-418. <https://doi.org/10.29278/azd.881922>