

The effects of replacing barley grain with different levels of dried citrus pulp on performance of Zel male fattening lambs

Authors:

**Amin Valizadeh,
Pouria Ehsani and
Sadegh Karimzadeh**

Institution:

M.Sc Student in Animal
Nutrition, Faculty Member,
Department of Animal
Science, Rudaki Higher
Education Institution,
Tonekabon, Iran

**Corresponding author:
Pouria Ehsani**

ABSTRACT:

This study aimed to investigate the effects of replacing barley grain with different levels of dried citrus pulp on the performance of Zel male fattening lambs. The treatments were: Treatment 1 (control): 0% dried citrus pulp + 50% barley grain (Treatment 0%), Treatment 2: 15% dried citrus pulp + 35% barley grain (Treatment 30%), Treatment 3: 30% dried citrus pulp + 20% barley grain (Treatment 60%), Treatment 4: 40% dried citrus pulp + 10% barley grain (Treatment 80%), Treatment 5: 50% dried citrus pulp + 0% barley grain (Treatment 100%). Maximum and minimum contents of protein were related to treatment 1 (17.3) and treatment 5 (16.2). No significant difference was observed between the experimental treatments in terms of crude fat ($P < 0.0001$). No significant difference was observed between the experimental treatments in terms of average NDF ($P < 0.0001$). Adding citrus pulp to the rations of fattening lambs had no significant effect on the intake of daily dry matter. In the whole fattening period, daily weight gain in Treatment 4 was more than ones in other experimental treatments but it was not statistically significant. Treatment 4 had more proper conversion factor compared to other treatment in the whole fattening period and significant differences were observed between 45, 60 and 75 feedlot.

Keywords:

Citrus pulp, barley grain, Zel male lambs