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Effect of supplemented metabolizable protein in creep feeding system on carcass characteristics of Afshari male lambs

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Abstract:

Lamb fatteners receive less benefit due to unawareness regarding the suitable methods of fattening. The aim of this study was to deliver lambs to slaughter weight in the possible shortest time reduces the cost of livestock and facilitates the extrance of extra livestock from pasture. For this purpose, 56 male lambs of Afshari were used in an unbalanced completely randomized design as 5 treatments including: The first treatment: milk + creep feeding (including low protein metabolism with Lysine and Methionine Rumen Protected and lambs feedlot at 10 days of age as intensive farming or LMP +LMRP), Second treatment: milk + creep feeding (including high protein metabolism and lambs feedlot at 10 days of age as intensive farming or HMP), Third treatment: lambs feedlot at 90 days of age (Milk + alfalfa + pasture then get a fattening diet at 90 days of age as semi-intensive farming), Fourth treatment: lambs feedlot at 120 days of age (Milk + alfalfa + pasture at 120 days of age as semi-intensive farming) and Fifth treatment: Milk + alfalfa + pasture then get a fattening diet (conventional control with fattening as semi-intensive farming or CONT-F). The results showed that the effect of creep feeding on average daily gain of lambs was significant ($p<0.05$) and treatments of HMP and LMP+LMRP recorded more amount. Dry matter intake among the treatments was statistically significant ($p<0.05$) and the highest rate was found in the fattening control. Feed conversion ratio (FCR) in the fattening lambs feedlot at 90 and 120 days of ages and fattening control, and increased significantly recording the highest amount in the fattened control. Carcass efficiency was reduced significantly in the fattening control. The greatest benefit as well as the greatest loss were seen in the LMP+LMRP and fattened control respectively. Generally, Baesd on the biometric traits, body composition, economic calculations and compliance with environmental factors treated LMP+LMRP, was determined as a better method for finishing lambs.

Key words: Creep Feeds, Metabolizable Protein, Lysine and Methionine, Feedlot, Afshari male lamb