

Abstract

Improve of precision and accuracy of estimated genetic parameters using a meta-analysis is possible. The aim of this study was to estimate genetic parameters of some economic traits in different breeds of goats in different climates using fixed meta-analysis. Therefore, check out the information in the 110 article during 1995 and 2016 that were paid to estimate genetic parameters for economic traits in goat was used. The information of this study stored and edited in an Excel file which contains three tables include genetic parameters, correlation and traits defining. Minitab Statistical Software analysis and comparison of means by Tukey test was conducted. Trait means, the genetic parameters and correlations between growth traits (birth weight, weaning weight, body weight at three months, body weight at 6 months, body weight at 9 months and body weight at 12 months), Average and genetic parameters of reproductive traits (kidding interval and litter size), fiber traits (annual production and fiber diameter) and milk production traits (milk yield, protein and fat) of different breeds of goats in four tropical climate (A), dry (B), moderate (C) and Continental (D) was investigated. In recent years plenty of genetic materials (Sperm and embryo) from different breeds have been imported via commercial and governmental centers. However, due to climate variety in Iran it seems that all of the breeds can't express their genetic potential in each climate. For example, Sistan region categorized in Bwh climate, therefore, is suitable for producing of meat breeds. For some traits with high values of genetic parameters, it proved that the animal can express its genetic potential and the effect of environment is scarce. Therefore, selection for these traits especially for those population which have no pedigree information can be useful.

Key words: Genetic Evaluation, Genetic Parameters, Goat Breeds, productive and Reproductive Traits.



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**Meta-analysis of (co)variance components of
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