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**The Survey and comparison of commercial broiler chicks performance in In Mild Climate (Tehran province)**

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**Abstract**

In order to survey and comparison of performance and carcass characteristics of 3 commercial broiler strains (Arian 386, Ross 308 and Cobb 500), an experiment was carried out using a mix of 1080 male and female broiler chicks in the form of completely randomized design (CRD) in 8 replicates and 45 broiler chicks in each replicate (experimental unit) by use of diets containing equal energy, for 42 days in the equal environmental conditions in mild region.

The results showed that the body weight, FCR (feed conversion ratio), feed intake, the feed cost for producing one kg of live weight and production efficiency index at the age of 42 days old was affected by strain ( $p < 0.05$ ). At the age of 42 days old, the Ross 308 strain had higher body weight, lower FCR and higher efficiency index than other strains ( $p < 0.05$ ). Carcass characteristics including the percent of breast, liver, abdominal fat and gizzard were affected by strain ( $p < 0.05$ ), but mortality percent, uniformity percent of performance traits and percent of carcass, thigh and wing were not affected by strain ( $p > 0.05$ ).

Generally, results shows the difference in performance and carcass quality between crossbreds of Arian 386, Ross 308 and Cobb 500 in mild climate, so that Ross crossbred could show better performance in mild climate than Arian and Cobb.

**Keywords: broiler, carcass characteristics, commercial strains, performance**