

畜牧兽医科学

福建德化黑鸡体重和体尺性状的相关与聚类分析

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摘要:

摘要: 本文应用相关分析和聚类分析对福建德化黑鸡的体重、体尺性状进行了研究。结果表明, 公鸡的体重与体斜长、胸深、胸宽、胸角、龙骨长、胫长和胫围呈显著或极显著正相关, 相关程度最大的是体斜长($r = 0.796$); 而母鸡的体重与胸宽、胸角和胫围呈显著正相关, 相关程度最大的是胸宽($r = 0.454$)。体尺性状对体重的影响及体尺性状间的相关关系随性别不同而异。体型性状的聚类分析结果表明, 公鸡可以聚成4类, 母鸡则聚成3类。研究结果为保存、改良和开发利用这一地方鸡种资源提供参考信息。

关键词: 关键词: 德化黑鸡 体型性状; 相关分析; 聚类分析

Correlation and cluster analysis of weight and size of Dehua Black Chicken in Fujian

Zhang li

Abstract:

Abstract: The purpose of this study was to investigate the body type traits, including body weight and body size of Dehua Black Chicken, a native breed of Fujian, by correlation and cluster analysis. The results indicated that the correlations between body weight and body length, chest depth, chest width, chest angle, sternum length, shank length, shank girth, were significantly positive for the male, and the largest correlation coefficient is body length ($r = 0.796$). The correlations were also positive significantly between body weight and chest width, chest angle, shank girth for the female. But the largest correlation coefficient is chest width ($r = 0.454$). With cluster analysis, body type traits of those chickens were divided into four types in male and three types in female. The results of this study will provide the scientific basis for breeding and improving of the native breed.

Keywords: Key words: Dehua black chicken body type traits; correlation analysis; cluster analysis

收稿日期 2009-04-21 修回日期 2009-05-15 网络版发布日期 2009-09-20

DOI:

基金项目:

福建省科技厅重大科技专项

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