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Monitoring and registration of the necked neck populations

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Abstract

To preserve the genetic resources and revive the native breeds in the country, the project of registering and monitoring naked neck chicken populations was studied. In this study, to evaluate the yield and productive capacity of naked neck chicken, productive herd consisting of 20 roosters and 70 adult chickens from 36 rural households from 23 different cities and 6 regions of Gilan and Mazandaran provinces including east, center, west, and south of Guilan and west and east of Mazandaran, was purchased and transferred to Rasht Livestock Station. Then, 6 roosters and 30 naked neck chickens (5 chickens to 1 rooster) that had a very high phenotypic diversity were selected and reproduced. A total of four hatching sessions, 138 naked neck chickens were selected, breed and recorded, and blood samples were taken from them for DNA extraction and storage in the gene bank of the National Institute of Animal Research and their phenotypic information was recorded. The age of slaughter, the number of eggs, the age of 50% of production and the age of elimination, the percentage of fertility, the percentage of chicks, the production of fertile eggs and the percentage of chicks in the total egg production were recorded as reproductive and reproductive traits, with an average of 5.5 monthly, 3 monthly, 131, 6.2 monthly, 2.5 years old, %67.85, %87 and %65 respectively. Also, the quality traits of the produced eggs were evaluated and the average traits of the white index, yolk index, unit weight, shell weight, yolk weight, specific gravity, egg weight (gr), shell strength and shell diameter were equal to 8.023 ± 1.61 , 8.169 ± 0.84 , 90.241 ± 9.64 , 5.188 ± 0.66 , 16.48 ± 2.1 , 1.078 ± 0.01 , 55.29 ± 5.480 , 2.88 ± 0.22 , 0.291 ± 0.02 , respectively. Considering the capabilities of naked neck chickens, as well as the tendency of most people to consume native eggs. In order to make this bird economical, it is necessary to make corrective planning in characteristics of growth rate, body size and increase egg production.

Keywords: Monitoring, Registration, Naked neck chickens