



MINISTRY OF JIHAD-E-AGRICULTURE
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Monitoring and registration of the Iranian goat populations

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Abstract

The Ministry of Jihad-E- Agriculture is responsible for policy making to identify, conserving and improve the breed and genetic resources and reserves of native livestock and improving their quality. The information obtained from identification and registration of native populations of any country is required in the development of genetic resource conservation and improvement programs.

In this research, the information of the questionnaire was collected in the field of registration of appearance characteristics and performance, determining and evaluating the indicators and the changing procedure of Najdi goat. Blood samples from the animal were collected from the distribution areas of this animal for DNA extraction and registered and stored in the gene bank of Animal Science Research Institute of Iran. Stationary information was also collected including weight at different stages of age, amount and composition of milk produced and reproductive traits and biometrics size during physical maturity such as the circumference of chest, body length, rump width, withers height, and tail dimensions. The results showed that the averages of the number of goats, female goats, male goats, female kids and male kids in the studied herds were 23.95, 12.3, 1.85, 6.3 and 3.5, respectively.

Average birth weight, three-month, six-month, nine-month, and one-year weights in the Najdi goat herds studied were 31.19 ± 0.18 , 30.39 ± 1.2 , 39.92 ± 2.12 , 18.46 ± 3.14 and 25.20 ± 2.99 kg, respectively. The mean withers height from the ground, pelvis bone width, the circumference of chest, tail length, tail width and body length in one to two year old female goats were 58.45 ± 2.94 , 10.95 ± 1.85 , 13.05 ± 1.50 , 5.3 ± 1.4 and 84.05 ± 5.55 cm, respectively and in male goats respectively 62.30 ± 2.50 , 11.65 ± 2.45 , 66.5 ± 4.65 , 13.42 ± 1.8 , 5.90 ± 1.25 and 82.05 ± 4.35 . The average production of milk production, milk fat, milk proteins, lactation length and non-fat solids were 0.61 ± 0.12 kg, $3.3 \pm 0.65\%$, $3.42 \pm 0.22\%$, 232 ± 25 days and $8.961 \pm 0.29\%$, respectively.

The analysis of the results obtained from the questionnaire information and herd information based at Safiabad Animal Science Research Station showed that implementation of breeding plans it is possible to increase the average production of Najdi goats.

key word: Monitoring, Najdi goat, registration