



MINISTRY OF JIHAD-E-AGRICULTURE

Agricultural Research, Education and Extension Organization
Animal science research institute of Iran

Monitoring and registration of the endangered Bactrian Camel populations in Qazvin and Qom Provinces

Research worker: Nematollah Asadi

Abstract

Identifying and conserving genetic resources is one of the goals of organizations related to global genetic resources. Therefore, identifying and determining the characteristics of native livestock breeds is one of the priorities of the Food and Agriculture Organization (FAO). Bactrian camel is one of the most important genetic resources in Iran. At present, comprehensive information on the number, distribution status and production characteristics and reproduction of two-humped camels is not available. Therefore, according to the legal duty of the Animal Science Research Institute, the present study was conducted to identify and register Bactrian camels. Initially, information about the number, morphological characteristics and distribution area was collected and recorded. Then, blood sample was collected and transferred to the Biotechnology Laboratory of the Institute of Animal Science Research. The genome DNA was extracted and stored in the freezer. By conducting this study, while obtaining population information of Bactrian camels in Qazvin and Qom provinces, more than 35 DNA samples were extracted from these valuable genetic resources and recorded in a cryo bank. This information could be used in future research projects such as breeding programs to protect Bactrian camels.

Keyword: Animal genetic resources, monitoring and registration, Bactrian camels