



MINISTRY OF JIHAD-E-AGRICULTURE  
Agricultural Research, Education and Extension Organization  
Agriculture and Natural Resources Research and Education Center of Azarbaijan

### **Monitoring, Identification and registration of the Iranian Sarabi cattle population**

**Research worker: Ghorban Elyasi Zarringhabaie**

#### **Abstract**

Identifying and registering populations and breeds of native livestock and poultry is one of the tasks of the National Animal Science Research Institute. Information from the identification and registration of endangered populations can be used in the design of conservation and management strategies for genetic resources. There are at least 8 populations and breeds as a genetic reserve of native cows in the country, of which the Sarabi cattle is one of the most prominent. The results of this monitoring showed that, unfortunately, the majority of the population of this breed is currently in the Sarabi Indigenous Cattle Support Center and the purebred Sarabi breed is not kept in villages and local communities. Therefore, the geographical location (GIS) of the registration center and for all the animals in it, questionnaire No. 1 was completed and a whole blood sample was taken from the jugular or subtail veins in tubes containing EDTA for all studied samples. Based on the results, body length (BL), heart girth (HG) and height at withers (HW) in adult cows are 171, 170 and 123.4 cm, respectively. The average weight of male and female calves born is  $27.34 \pm 0.43$  kg and  $25.57 \pm 0.37$  respectively, of which male calves are about 1.77 kg heavier than female calves. The average weight of cows at one month, two months, three months (weaning weight), four months, five months, six months, nine months, 12 months, 24 months (puberty) and 36 months (first calving), respectively.  $30.97 \pm 0.43$ ,  $39.38 \pm 0.61$ ,  $48.60 \pm 0.73$ ,  $56.57 \pm 0.90$ ,  $64.73 \pm 1.09$ ,  $73.73 \pm 1.30$ ,  $98.64 \pm 1.83$ ,  $123.63 \pm 2.71$ ,  $184.45 \pm 3.90$ ,  $249.21 \pm 3.48$  and  $313.72 \pm 5.67$  kg. The first estrus is observed at 2 years old. The production of Sarabi cow milk in each lactation period ( $268 \pm 3.61$  days) is about  $1688.49 \pm 38.80$  kg, which produces an average of  $6.72 \pm 0.11$  kg of milk per day with  $4.68 \pm 0.04\%$  fat and  $3.48 \pm 0.02\%$  protein. The interval between parturition in this breed is  $358 \pm 6.16$  days, the length of the pregnancy period is  $283 \pm 0.35$  days and the open days are  $65 \pm 4.86$  days, and  $1.34 \pm 0.08$  artificial insemination are required for successful pregnancy.

**Key words:** Native Cattle, Identification and Registration, Genetics Resources.