ABSTRACT

Ph.D Thesis

TESTIS CHARACTERISTICS, SEMEN QUALITY AND MATING BEHAVIORS ON KARYA TYPE AND CINE CAPARI YOUNG AND MATURE RAMS

Duygu KAŞIKÇI İNCE

Adnan Menderes Universty

Graduate School of Natural and Applied Sciences

Department of Animal Science

Supervisor: Prof.Dr. Orhan KARACA

This study was performed to determine testis, sperma and sexual behaviour traits in Karya and Çine Çaparı rams. Research material consisted of 4 mature Çine Çaparı and 4 mature Karva, 8 young Cine Capari and 8 young Karva; totaly 24 rams in ADU-GKYP (Adnan-Menderes University Group Sheep Breeding Programe). The effect of season, month and year on the live weight, testis length, testis diameter and scrotum circumference of Cine Caparı and Karya rams were investigated. Average testis characteristics of young Karya lamb rams were, 9,48 cm, 4,38 cm and 23,73 cm; In Çine Çaparı, 8,83 cm, 4,30 cm and 22,69 cm respectively, for mature Karya rams were; 11,13 cm, 5,64 cm, 33,98 cm, In Çine Capari 11,60 cm, 5,19 cm and 32,70 cm respectively. Sperma samples were evaluated with respect to volume, progressive sperm motility, percentage of dead spermatozoid, sperm concentration and total number of spermatozoid. In young Karya lamb rams this characteristics, 1,01 ml, 3,98, %11,05, %8,17, 1,72x109/ml, 1,74x109/ejeculate respectively, In Çine Çaparı; 0,87 ml, 3,55, %12,86, %8,98, 1,63x10⁹/ml and 1,42x10⁹/ejeculate respectively, In mature Karya ram; 1,65 ml, 4,77, %11,48, %7,84, 1,89 x10⁹/ml, 2,16 x10⁹/ejeculate, In Çine Çaparı; 1,32 ml, 3,58, %14,81, %17,71, 1,56 x10⁹/ml, 1,66 x10⁹/ejeculate respectively. In mating behaviour test of rams were evaluated mount frequency, latency, mating efficiency. This traits in young Karya rams, 7,11, 197,34 s, 184,96 s, 2,75, 212,08 s, 431,61 s and 0,23 respectively, In Çine Çaparı; 4,08, 286,00 s, 180,81 s, 2,06, 299,93 s, 674,74 s, 0,19 respectively, for mature Karya rams; 17,17, 35,50 s, 59,85 s, 6,25, 35,63 s, 386,62 s, 0,31, In Çine Çaparı; 26,08, 45,75 s, 52,14 s, 3,33, 93,67 s, 775,50 s and 0,14 respectively.

Results indicated that testis and sperma characteristics of young and mature Karya and Çine Çaparı rams showed seasonal changes and sperma production of Karya and Çine Çaparı rams continued during the year. Moreover, testis characteristics, sperm quality and sexual performance of Karya rams is the better than Çine Çaparı.

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Key Words: Karya, Çine Çaparı, testis, sperma, mating behaviour.