

## EFFECT OF THE MAGNETIC WATER ON SEMEN CHARACTERISTICS AWASSI RAMS.

**Maher A.K.Al-hafez\***

**Abdulnasir Th. Alkhashab\***

**Mohammed,S Almetewty\***

\*College of Agriculture and Forestry – University of Mosul - Mosul – Republic of Iraq  
drmaheralhafith@yahoo.com

### ABSTRACT

The aim of this study was to investigate the effect of different intensities of water treated magnetically in semen characteristics of rams. Twelve Awassi adult rams 2- 3 years old were distributed randomly on 3 treatments by 4 rams each group transactions were as follows (T1) represents the control group that dealt with Normal drinking water (non-magnetic) (T2) represents rams which drank magnetically treated water which passed through magnetic device with strength of 700 gauss . (T3) represents the third treatment drank magnetically treated water which passed through magnetic device with strength of 1400 gauss . Semen was collected from rams twice a week during the period of the experiment using electro-ejaculator for collecting semen. Semen traits included in this experiment were: ejaculate volume, semen color , pH of semen , mass activity and individual motility of spermatozoa, spermatozoa concentration, percentages of live and dead spermatozoa and abnormal spermatozoa. Results revealed that treated of rams with magnetically treated water resulted in significant ( $p < 0.05$ ) increase as regards the total means of individual motility of spermatozoa , percentage of live sperm and significant ( $p < 0.05$ ) decrease with relation to the total means of percentages of dead spermatozoa, abnormal spermatozoa , pH of semen and that the third treatment dealt with water magnetized strongly 1400 gauss gave the best results compared to other treatments. It could be concluded from the results of this experiment that treated rams drinking magnetic water showed a significant improvement in some semen characteristics of Rams . therefore it can be used magnetically treated water technology as one of the important means to enhance the reproductive efficiency of the rams in addition continue to provide drinking magnetized water for a longer period of time may give better results with respect to the semen characteristics of rams.

**Key words:** Magnetic water , semen characteristics , Awassi Rams.