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| The present study was conducted in two sheep breeding stations (Al-Radhwania and Al-Latifia) which are situated in areas around Baghdad. This study indicated two experiments conducted on 627 ewes of 2-9 years old.  The first experiment was conducted in Al-Radhwania farm for sheep breeding and included 308 ewes during the period from June 2000 to May 2001. The fertile rams were introduced to ewes at two regular intervals (about three estrous cycles). The pregnancy diagnosis was done using ultrasound technique after one month from the time of isolation of fertile rams, and 36 non pregnant ewes were isolated.  The second experiment was conducted in Al-Latifia breeding farm and included 319 ewes. Fertile rams were continuously run with ewes. Three pregnancy diagnoses for ewes were carried out at a period of one month. At the end of this experiment, 90 non pregnant ewes were isolated.  The result of the present study revealed that the rate of fertility, abortion and barrenness for Al-Radhwania and Al-Latifia breeding farm reached 75.12, 4.78, and 24.88 % respectively. The result also showed a significant differences (P<0.01) in the parameters of breeding efficacy (fertility rate, abortion rate, fertilization rate and barrenness rate) between the two farms.) | | | | | | Abstract |