

**Table 1: Effect of type of mating on some fertility traits of doe rabbits**

| Classification            | Number of does | Number of pregnant does | Fertility (%)      | Gestation length (days) | Litter size at    |                                 |                                 |
|---------------------------|----------------|-------------------------|--------------------|-------------------------|-------------------|---------------------------------|---------------------------------|
|                           |                |                         |                    |                         | Birth             | 21 days                         | 28 days                         |
| Natural mating            | 40             | 28                      | 70 <sup>b</sup>    | 29.64<br>±<br>0.14      | 6.93<br>±<br>0.29 | 4.50<br>±<br>0.38 <sup>ab</sup> | 4.36<br>±<br>0.39 <sup>ab</sup> |
| 0.2 ml Receptal + AI      | 40             | 32                      | 80 <sup>a</sup>    | 30.00<br>±<br>0.07      | 6.63<br>±<br>0.27 | 3.56<br>±<br>0.34 <sup>b</sup>  | 3.31<br>±<br>0.33 <sup>b</sup>  |
| Mechanical stimulation+AI | 30             | 20                      | 66.67 <sup>b</sup> | 29.60<br>±<br>0.29      | 6.90<br>±<br>0.34 | 5.00<br>±<br>0.69 <sup>a</sup>  | 5.00<br>±<br>0.69 <sup>a</sup>  |
| Vasectomized buck +AI     | 35             | 24                      | 68.57 <sup>b</sup> | 30.00<br>±<br>0.01      | 6.58<br>±<br>0.40 | 5.50<br>±<br>0.41 <sup>a</sup>  | 5.25<br>±<br>0.41 <sup>a</sup>  |
| Significance              |                |                         | *                  | NS                      | NS                | **                              | **                              |

Means with different superscripts in the same column differ significantly (P < 0.05).

\*\* = P< 0.01, \* = P < 0.05 and NS = Not significant.

**Table 2: Effect of type of mating on some reproductive traits of rabbits**

| Classification            | Litter weight at                 |                                    |                                    | Mean of kit weight at            |                                    |                      | Litter weight gain from:           |                                    |                                   |
|---------------------------|----------------------------------|------------------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------|------------------------------------|------------------------------------|-----------------------------------|
|                           | Birth                            | 21 days                            | 28 days                            | Birth                            | 21 days                            | 28 days              | Birth-21days                       | Birth-28 days                      | 21-28 days                        |
| Natural mating            | 394.3<br>±<br>21.0 <sup>a</sup>  | 1310.7<br>±<br>116.4 <sup>bc</sup> | 2019.3<br>±<br>176.4 <sup>ab</sup> | 56.66<br>±<br>1.53 <sup>ab</sup> | 282.19<br>±<br>7.92 <sup>c</sup>   | 468.93<br>±<br>16.69 | 1063.2<br>±<br>89.64 <sup>b</sup>  | 1769.2<br>±<br>150.04 <sup>b</sup> | 763.1<br>±<br>73.08 <sup>b</sup>  |
| 0.2 mL Receptal +AI       | 328.8<br>±<br>10.4 <sup>b</sup>  | 1076.9<br>±<br>94.4 <sup>b</sup>   | 1437.5<br>±<br>124. <sup>3b</sup>  | 52.18<br>±<br>1.64 <sup>b</sup>  | 321.81<br>±<br>18.26 <sup>ab</sup> | 468.21<br>±<br>22.67 | 1078.3<br>±<br>50.08 <sup>b</sup>  | 1431.5<br>±<br>88.72 <sup>b</sup>  | 443.9<br>±<br>31.72 <sup>c</sup>  |
| Mechanical stimulation+AI | 391.0<br>±<br>33.1 <sup>a</sup>  | 1735.0<br>±<br>233.3 <sup>a</sup>  | 2475.0<br>±<br>333.5 <sup>a</sup>  | 61.34<br>±<br>3.56 <sup>a</sup>  | 352.78<br>±<br>6.86 <sup>a</sup>   | 510.60<br>±<br>19.19 | 2034.3<br>±<br>123.82 <sup>a</sup> | 3091.4±<br>181.70 <sup>a</sup>     | 1057.1<br>±<br>90.32 <sup>a</sup> |
| Vasectomized buck + AI    | 366.7<br>±<br>15.6 <sup>ab</sup> | 1528.3<br>±<br>87.4 <sup>ab</sup>  | 2127.5<br>±<br>112.8 <sup>a</sup>  | 59.84<br>±<br>2.59 <sup>a</sup>  | 298.01<br>±<br>13.18 <sup>bc</sup> | 446.29<br>±<br>19.40 | 1161.7<br>±<br>85.77 <sup>b</sup>  | 1760.8<br>±<br>114.99 <sup>b</sup> | 599.2<br>±<br>74.93 <sup>bc</sup> |
| <b>Significance</b>       | <b>**</b>                        | <b>**</b>                          | <b>**</b>                          | <b>**</b>                        | <b>**</b>                          | <b>NS</b>            | <b>*</b>                           | <b>**</b>                          | <b>**</b>                         |

Means with different superscripts in the same column differ significantly (P < 0.05).

\*\* = P< 0.01 and NS = Not significant.