

and sites of implantation were counted and the embryos were examined, macroscopically for a heart beat. Ovulation occurred less frequently in lot 1 than in lot 10, the respective values being 56.1 p. 100 and 83.7 p. 100 in autumn, 78.3 p. 100 and 80 p. 100 in winter, 77.8 p. 100 and 94.4 p. 100 in spring. No significant difference was found between the two lots of rabbits for the other parameters which were examined, although values were higher for lot 10 than for lot 1.

The mean number of C. L. increased from autumn to spring for rabbits mated 10 days after parturition, but not when the interval was one day. The percentage of early embryo survival (no. sites per no. C. L.  $\times$  100) was 67 p. 100 in lot 1 and 77 p. 100 in lot 10.

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## VARIATIONS IN THE BODY RESERVES OF FEMALE RABBITS DURING THE REPRODUCTIVE CYCLE

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Sixty-five Californian female rabbits, having already undergone a complete reproductive cycle, were used. During pregnancy, half of the females were fed *ad libitum*, whereas the others only received 140 g/day of the same food. From parturition, all the animals were fed *ad libitum*, 5 of the rabbits were killed at mating and 5 rabbits per group on days 10, 21 and 28 of gestation and on days 10, 21 and 32 after parturition. Study of the body composition of these rabbits showed a great constancy in the protein compartment of the rabbits. On the other hand, the lipid reserves of the rabbits are liable to be subjected to rapid and considerable variations. According to diets, the mobilization and deposition of lipid reserves may be recorded as well during gestation as during lactation.

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## EFFECT OF WEIGHT AT WEANING IN THE RABBIT ON ITS SUBSEQUENT GROWTH PERFORMANCES

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Forty-two litters of Californian rabbits were used for the experiment. By changing the nature and amount of diet offered before weaning (28 days), we obtained 2 groups of experimental animals whose weight at weaning (450 g) was definitely lower than that of the control group