

Body type score and organ weight during laying period of White Roman breeder geese⁽¹⁾

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Abstract

The purpose of this study was to investigate the relationship of body type score and organ weight during laying period of White Roman geese. A total of sixty-nine ganders and 190 female geese in their first laying period with average age of 6 months were allotted into each cage, individually. The geese were randomly sampling 8 times (each time per month, from October to May of next year), 10 geese were sacrificed by cervical dislocation each month. The results showed that the effects of reproductive period on carcass weight, liver weight, gizzard weight, dressing, liver weight as a percentage of Eighteen-h feed-deprived body weight (FDBW) and gizzard weight as a percentage of FDBW of gander goose were quadratics. Liver weight as a percentage of FDBW of gander had linear effect. The effects of laying period on body weight, carcass weight, liver weight, abdominal fat pad weight, liver weight, dressing, fat pad weight as a percentage of FDBW and gizzard weight as a percentage of FDBW of goose were quadratics. It showed that the gander in first and second month after laying egg of female geese had a higher on abdominal-foot profile score than second and first month before laying egg, onset laying month, third and fourth month after laying egg of female geese (3.98 and 3.93 vs. 3.24, 3.29, 3.19, 3.26 and 3.55, $P < 0.0001$), respectively. The geese in first, second and third month after laying egg had a higher on abdominal-foot profile score than second, first month before laying egg and onset lay month (3.89, 3.86 and 3.94 vs. 3.34, 3.39 and 3.54, $P < 0.0001$), respectively. The body weight of geese was positively correlated to carcass weight ($r = 0.88$, $P < 0.01$), abdominal fat pad weight ($r = 0.94$, $P < 0.001$) and liver weight ($r = 0.93$, $P < 0.001$). In conclusion, the female geese had heavier abdominal fat pad weight, liver weight, intestinal weight, and gizzard weight at onset of laying in White Roman geese which indicated that the internal organs had been developed for egg production.

Key Words: Body type score, Organ weight, White Roman goose.

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