Impact of light and feed colors on performance of growing Japanese quail


Abstract:

The present study aimed to investigate the impact of light and feed colors on the growth performance, carcass traits, blood parameters, age and body weight at sexual maturity, viability of Japanese quail birds. Therefore, 180 one day old chicks were randomly distributed into six groups (three replicates each of 10 chicks). All chicks divided into two main groups; first group were reared under yellow light produced by led light bulbs, while those in the second group were reared under white light. Each main group was divided into 3 subgroups according to feed color (normal, yellow and green). All birds were raised under photoperiods of 12 hours per day with light intensities of 5-10 luxes. Feed and water were available ad-libtum and all the other managerial conditions were similar during the experimental period. The results could be concluded that body weight or gain and feed consumption or conversion significantly affected by light and feed colors. The liver and heart percentages improved relatively, while the improvement in the dressing was significant by using the green feed and yellow led light bulbs as compared to the others groups. The light and feed colors had no effect on some blood parameters and the mortality rate during the experiment. Taking in consideration these advantages it could be concluded that the use of yellow light lamps with green feed is highly recommend for raising Japanese quail birds.

Keywords:

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