

THE EFFECT OF DRIED FRUIT-VEGETABLE-HERB CONCENTRATE APPLIED IN COMPOUND FEED-STUFFS ON REPRODUCTIVE PERFORMANCE OF BROILER CHICKEN PARENT STOCK

Zofia Tarasewicz, Mieczysław Aniśko

*Department of Poultry and Ornamental Birds Breeding, Western Pomeranian University of Technology in Szczecin
71-460 Szczecin, Judyma 20, Poland*

*Postal addresses: Department of Poultry and Ornamental Birds Breeding,
Western Pomeranian University of Technology in Szczecin
71-460 Szczecin, Judyma 20, POLAND; E-mail:zofia.tarasewicz@zut.edu.pl*

Abstract. The study aimed at evaluating the effect of phytobiotic from waste products being obtained in fruit, vegetable and herb processing on the performance and hatchability rates of broiler chicken breeder hens. The study material consisted of a group of ROSS 308 broiler chicken breeders, numbering 9900 birds. The control (group 1) was fed a standard feed, whereas experimental groups 2 and 3 were given the standard feed being supplemented with dried fruit-vegetable-herb concentrate in the amount of 1.5 and 3%, respectively. During the experiment, the following parameters were recorded: body weight, feed consumption, number of eggs per layer, egg weight, deaths and culling related to health problems. Based on the data being obtained from 70 experimental incubations, egg fertilisation and chick hatchability rates were calculated. Dried fruit-vegetable-herb concentrate favourably affected the final body weight of layers, decreased the mortality of hens and cocks, as well as induced an increase in the number and weight of eggs. An improvement in reproduction parameters was demonstrated, being expressed in higher fertilisation and hatchability rates. Feed consumption per egg gradually decreased together with an increase in the level of dried fruit-vegetable-herb concentrate in feed.

Keywords: dried fruit-vegetable-herb concentrate, health state, reproduction parameters