

CHEMICAL COMPOSITION OF MEAT OF LAYING HENS IN ALTERNATIVE REARING SYSTEMS

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Abstract: The aim of this paper was to estimate the effect of rearing systems (floor and organic) on the chemical composition of meat of laying hens. The tested genotypes were Isa Brown hybrid and dual purpose breed New Hampshire. Based on the results of this research can be concluded that the rearing system, generally, did not caused statistically significant differences in any of the parameters examined chemical composition of meat. On the other hand, the breast meat - white meat and thigh and drumstick - dark meat of New Hampshire genotype had significantly higher fat content compared to the Isa Brown hybrid. It must be noted that in the breast meat reported significant interaction genotype x rearing system. The other parameters of the chemical composition of meat were not significantly different between reared genotypes.

Key words: laying hens, chemical composition, white meat, dark meat.

Introduction

In recent years more and more attention is paid to the functional role of food - its characteristic to improve the state of health consumers and prevent the occurrence of diseases associated with inadequate nutrition. For this reason, consumers are increasingly deciding to buy a product that is obtained in the "natural way" and for him are willing to pay a higher price, because they believe that such products are healthier and better.

For this reason, alternative rearing systems of poultry are increasingly the focus of science and practice. In Europe, already 44% of hens are raising in some of the non-cage rearing systems, and about 20% of individuals has access the outdoor (*Committee for the Common Organisation of Agricultural Markets, 2016*). In the UK almost 50% of the birds are raising in the rearing systems with an

