PROCEEDINGS
«ONE HEALTH IN PRACTICE: ANIMAL WELFARE, MANAGEMENT, AND FOOD SAFETY»

February 6, 2026, Kyiv – Stockholm

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SPONSOR

Swedish University of Agricultural Sciences
Swedish Institute
(Svenska Institutet, project number 01236/2023 - LEARNSAVE).

PUBLISHER

Faculty of Livestock Raising and Water Bioresources,
National University of Life and Environmental Sciences of Ukraine,
Kyiv, Ukraine

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The proceedings is printed by the Faculty of Livestock Raising and Water Bioresources and according to the rector's order № 26 entry 13.01.2026., Kyiv.
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nubip.edu.ua/structure/tvb
Circulation 100 copies.

Authors of the abstracts are responsible for the accuracy of all statements, conclusions and opinions in the text both ethically and juridically.

Animal science: «One health in practice: animal welfare, management, and food safety» – K.: NUBiP of Ukraine, 2026. – 52 p.

УДК 001.636.083:502.131.1:338.3
ISBN 978-617-8798-81-9

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CONTENTS

ASSESSMENT OF THE IMPACT OF THE GENETIC POTENTIAL OF DIFFERENT CROSSBREEDS ON EGG PRODUCTIVITY

Ilchenko M., Shaferivskyi B.

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This paper presents the results of an analysis of prospects for the further development of poultry farms, taking into account the existing potential and challenges of the modern poultry industry. Productivity indicators of the Lohmann crossbreeds were studied at “Poltava Poultry Farm” PJSC. The productivity of laying hens and the efficiency of using two lines – Lohmann LSL Light and Lohmann Brown – were assessed.

During the laying period, Lohmann Brown hens demonstrated high adaptive capacity and stable productivity. Although Lohmann LSL Light hens adapted well to intensive housing systems, their survival rate was 2% lower than that of Lohmann Brown birds. At the same time, Lohmann LSL Light hens reached peak egg production more rapidly (91.4%) and maintained high productivity throughout the production cycle. By the end of the productive period, egg production in this cross remained at 69.1%, which was 3.6% higher than in Lohmann Brown hens.

However, the average egg weight of Lohmann LSL Light hens was lower than that of Lohmann Brown hens. Lohmann Brown birds exhibited more intensive growth and reached the standard live weight for the cross by the end of the laying period. Specifically, at the end of production, the live weight of Lohmann Brown hens was 1880.9 g, compared to 1629 g in Lohmann LSL Light hens.

It was also established that feed costs, and consequently production costs, were significantly lower for the Lohmann LSL Light cross than for the Lohmann Brown cross. These findings indicate that the use of Lohmann LSL Light laying hens at Poltava Poultry Farm PJSC is more economically efficient than the use of Lohmann Brown hens.

Keywords: poultry; feed costs; production costs