

## CONTENTS

### **SECTION 1. AGRONOMY**

Effectiveness of the influence of agricultural technological practices on the formation of grain productivity of spring barley <b>Vinyukov O. O., Bondareva O. B., Volenshchuk Ye. V.</b> .....	5
Competitiveness of hop production of Ukrainian manufacture <b>Koshitska N. A., Protsenko L. V.</b> .....	10
The productivity of spring barley depends on the cultivation technology <b>Len O. I.</b> .....	14
Towards assessing the relationship between the physical properties of soils and the yield of agricultural crops <b>Plisko I. V., Romanchuk K. Yu.</b> .....	17
Varietal specificity of productivity formation of sugar sorghum <b>Popova O. P., Kulyk M. I.</b> .....	21
Characterization of winter bread wheat breeding lines with rare pigmentation of the caryopsis in terms of yield and grain quality <b>Usova Z. V., Leonov O. Yu., Suvorova K. Yu.</b> .....	25
The role of the variety in the implementation of adaptive farming systems on the territory of Ukraine <b>Feoktistov P. O., Yarmolska O. E., Gavrilov S. V.</b> .....	30
Prospects for cultivating giant miscanthus on military degraded soil <b>Tsapko Yu. L., Palamar N. Yu.</b> .....	33
Methods of producing environmentally safe chickpea grain <b>Chervona V. O., Chervonyi Ya. M.</b> .....	37
Resource-saving technologies of grain growing – at the value of global food security <b>Shebanin V. S., Ruzhniak M., Drobotko A. V.</b> .....	41
<b>SECTION 2. PLANT PROTECTION AND QUARANTINE</b>	
Weediness of late winter wheat crops after soybean forecrop in the conditions of the Eastern Forest-Steppe of Ukraine <b>Hutianskyi R. A.</b> .....	46

The effectiveness of the use of fungicides against potato alternaria in the conditions of the right bank forest steppe of Ukraine <b>Dzham M. A., Kononenko Yu. M., Mykhaylenko S. V.</b> .....	<b>50</b>
Fusarium of soybeans at the initial stages of organogenesis in the forest-steppe of Ukraine <b>Zabaluieva D. T., Artemchuk I. P.</b> .....	<b>54</b>
<b>SECTION 4. TECHNOLOGY OF PRODUCTION AND PROCESSING OF LIVESTOCK PRODUCTS</b>	
The influence of bedding material on comfort and welfare of dairy cows in period of low temperatures <b>Borshch O. V., Babenko O. I., Borshch O. O.</b> .....	<b>58</b>
<b>SECTION 5. AQUATIC BIORESOURCES AND AQUACULTURE</b>	
Genetic Structure of Silver Carp Hypophthalmichthys molitrix (Valenciennes, 1844) stocks in Ukrainian Fish Hatcheries Assessed Using DNA Markers <b>Borysenko N. O., Mariutsa A. E.</b> .....	<b>62</b>
Fertility indicators of river crayfish populations of Prydniprova reservoirs <b>Borovyk I. I., Marenkov O. M.</b> .....	<b>66</b>
On the question of scientific support for the development of sturgeon farming in Ukraine against the backdrop of the coronavirus pandemic and full-scale war <b>Simon M. Yu., Burhaz M. I., Zabytivskyi Yu. M.</b> .....	<b>69</b>