

## CONTENTS

<b>AGRICULTURE, CROP PRODUCTION, VEGETABLE AND MELON GROWING.....</b>	<b>3</b>
<b>Olifirovych V.O., Olifirovych S.Y., Tomash L.V., Makoviychuk S.D.</b> Duration of the growing season of soybean in the southern part of the Western Forest-Steppe.....	3
<b>Petryshche O.I., Kushniruk T.M., Kharchenko O.S.</b> Conceptual principles of functioning of the land resources management system in agriculture.....	10
<b>Polishchuk V.V., Prytula Yu.M.</b> Formation of winter wheat yield structure elements depending on varietal characteristics and predecessors.....	17
<b>Popova O.P., Kovalchuk E.S., Lynchak N.B., Dihtyar I.O., Daniuk Yu.S., Barban O.B.</b> Implementation of the quality management system at the Ukrainian Institute for Plant Varieties Examination .....	23
<b>Rybalchenko A.M., Ivanenko R.S.</b> Evaluation of pea varietal resources by a complex of economically valuable traits in the Forest-Steppe of Ukraine .....	31
<b>Semenov S.S.</b> Efficiency of chemical protection of corn from pests in the Northern Steppe of Ukraine .....	41
<b>Semenchuk V.H., Sanduliak T.M., Vinnytska S.I.</b> Productivity of miscanthus in the tenth and eleventh years of vegetation on slope lands of the southwestern part of the Forest-Steppe of Ukraine.....	50
<b>Sendetskyi V.M., Melnychuk T.V., Lozovyi O.A.</b> Economic efficiency of application of elements technologies of growing white mustard in the conditions of the Carpatia...56	
<b>Serhieiev L.A., Kogut I.M., Pochkolina S.V., Melnyk O.T., Vlasenko S.V.</b> Formation of leaf surface area of plants of winter cereals in the conditions of the Southern Steppe of Ukraine.....	66
<b>Stankevych S.V., Matviienko V.M., Zabrodina I.V.</b> Assortment of protection tools of soybeans and other leguminous crops against harmful organisms in Ukraine in 2017–2018 .....	76
<b>Storozhenko D.S., Zhukova L.V., Stankevych S.V.</b> Effectiveness of growth regulators and microfertilizers for the growth and development of sunflower plants in the Eastern Forest-Steppe of Ukraine .....	87
<b>Storozhyk L.I., Mykhailovin Yu.M.</b> Control of the spread of <i>Ambrosia Artemisiifolia</i> (L.) with herbicides in sunflower agrophytocenoses .....	95
<b>Trembitska O.I., Stoliar S.H.</b> Use of winter spelt and grain sorghum in the food industry in organic production.....	104
<b>Khablak S.H., Abdullaieva Ya.A., Spychak V.M.</b> Intracellular hemibiotrophic infection of sunflower broomrape ( <i>Orbanche cumana</i> Wallr.).....	112
<b>Khomina V.Ya., Vitrovchak L.A.</b> Indicators of the quality of the black seed depending on agrotechnical factors in the conditions of the Western Forest Steppe.....	122
<b>Khoroshun I.V., Nazarenko M.M., Hulenko O.I.</b> Development of key characters of yield and quality in new varieties of winter wheat.....	129
<b>Tsyliuryk O.I., Tyshchenko V.O.</b> Corn grain quality under the influence of plant density and level of mineral nutrition in the Steppe of Ukraine.....	136
<b>Tsytsiura Ya.G.</b> Potential of biogas anaerobic fermentation of oilseed radish leaf and stem mass in spring term of its cultivation.....	144

<b>Chaika T.O., Polezhak Ye.Yu.</b> The formation of main indicators of spring durum wheat grain quality in Poltava region .....	156
<b>Sharypina Ya.Yu., Borovska I.Yu., Babych V.O., Parii Ya.F.</b> Yields of sunflower hybrids belonging to different herbicide resistance groups depends on thinning in environmental trial plots .....	164
<b>Shepel A.V.</b> Influence of mineral fertilizers on sweet pepper yield in the Southern Steppe of Ukraine .....	176
<b>Shkatula Yu.M., Zabarna T.A., Ostapchuk R.V.</b> Current state of corn production in Ukraine.....	182
<b>Yurchenko S.O., Palaziuk B.O., Bilokin A.V.</b> The influence of mycorrhizal preparation on the yield of soft winter wheat ( <i>Triticum aestivum</i> L.) .....	190
<b>ANIMAL HUSBANDRY, FEED PRODUCTION, STORAGE AND PROCESSING OF AGRICULTURAL PRODUCTS</b> .....	198
<b>Liuta I.M., Naichuk D.K.</b> The influence of probiotic drugs on the growth and development of pigs .....	198
<b>Pelykh N.L., Konoplianko N.A., Vinnyk A.O.</b> Influence of thermal state of meat raw materials on microbiological indicators and product safety .....	206
<b>Plakhtii P.D., Plakhtii D.P., Nebaba K.S.</b> To the method of manufacturing, storing and using express honeys from medicinal plants.....	211
<b>Pochukalin A.Ye.</b> Males – an integral unit in the breeding process in livestock.....	217
<b>Prylipko T.M., Betlinska T.M.</b> Effectiveness of using a complex feed supplement in the diets of heifers and cows.....	223
<b>Razanova O.P., Beznosyuk A.M.</b> Effectiveness of the effect of protein supplement from lumb larges on the growth dynamics of young pigs.....	228
<b>Rakhmetov D.B., Kostetska K.V., Kovtun-Vodyanytska S.M., Rakhmetova S.O., Klymenko S.O.</b> Sensory evaluation of macaroni products enriched with camelina and mustard flour .....	236
<b>Tkachenko T.Yu., Golubenko T.L.</b> Effectiveness of using mineral complexes and feed.....	242
<b>Yurchenko O.S., Bondarska O.M., Lykhach V.Ya., Lykhach A.V., Chumak V.M., Vashchenko Ye.O., Zinchenko O.V.</b> Ukrainian pig production under martial law. Problems and prospects.....	256
<b>ECOLOGY, ICHTHYOLOGY AND AQUACULTURE</b> .....	268
<b>Lakyda P.I., Sytnyk S.A., Goloborodko K.K., Lovynska V.M.</b> Proposal to combat illegal logging based on the analysis of international approaches .....	268
<b>Marukha T.V.</b> The problem of the protection of forest phytocoenoses.....	276
<b>Semeniuk S.K., Boiko T.O., Motuzna O.Ye., Torbina O.V.</b> Creation of a project for the reconstruction and landscaping of the green area of Kherson Lyceum No. 57.....	284
<b>Yamborak R.S., Krachan T.M., Koval T.V.</b> Study of aluminum content in water: seasonal variations and their implications for agricultural science quality .....	293