

## CONTENTS

<b>AGRICULTURE, CROP PRODUCTION, VEGETABLE AND MELON GROWING.....</b>	3
<b>Averchev O.V., Ivaniv N.O., Lavrynenko Yu.O.</b> Indices of yield and effective productivity of maize hybrids of different FAO groups under different methods of irrigation and moisture supply in the Dry Steppe of Ukraine.....	4
<b>Bahan A.V., Shakaliy S.M., Yurchenko S.O., Holovash L.M.</b> The influence of the variety on the manifestation of economically valuable traits of cultivated oats.....	13
<b>Beseda O.O., Havryliuk Yu.V., Bashtova I.P., Kisilov D.M.</b> Features of winter wheat development in abnormally warm winter in southeastern Ukraine.....	20
<b>Bykin A.V., Bykina N.M., Bordyuzha N.P.</b> Productivity of potato growing under the conditions of liquid phosphorus fertilizers application.....	27
<b>Burykina S.I., Welver M.O., Kapustina G.A.</b> Agronomic efficiency of fertilizers in pea growing under the conditions of climate change of the Black Sea Steppe .....	33
<b>Ivanyshyn O.S., Khomina V.Ya.</b> Dynamics of dry aboveground mass accumulation and grain yield of maize hybrids depending on fertilization in the conditions of Western Forest Steppe .....	44
<b>Kovaljova I.A.</b> The results of biotechnological methods application in grapevine breeding and clonal selection in Ukraine.....	49
<b>Kyluk M.I., Onoprienko O.V., Syplyva N.O., Bozhok Yu.O.</b> Yield of soft (winter) wheat varieties depending on the fertilization system.....	55
<b>Liubych V.V., Novikov V.V., Leshchenko I.A.</b> Technological properties of grain of different wheat types depending on the genotype .....	63
<b>Makukha O.V.</b> System of phytosanitary monitoring of winter oilseed rape pests in the south of Ukraine .....	69
<b>Markovska O.Ye., Hrechyshkina T.A.</b> Quality of grain of winter wheat varieties depending on fertilization and protection of plants from diseases under the conditions of the Southern Steppe of Ukraine .....	77
<b>Marchenko D.I.</b> Competitive relations between soybean and weeds in agrocenoses .....	84
<b>Stankevych S.V., Vilna V.V.</b> Efficiency of chemical protection of spring rape and mustard from cruciferous bugs .....	90
<b>Stankevych S.V., Zabrodina I.V.</b> Analysis of market capacity and the main operators of plant protection products in Ukraine in 2017–2018. Part 1: imports .....	118
<b>Stroyanovskyi V.S.</b> Biometric indicators of fennel depending on the application of plant growth regulators under the conditions of Western Forest Steppe.....	135
<b>Ushkarenko V.A., Chaban V.A., Averchev O.V., Lavrenko S.O.</b> Plant density and weediness of clary sage crops depending on the effect of winter hardiness and years of use of the crop in the southern Ukraine.....	140
<b>Yudytska I.V., Klechkovsky J.E.</b> Peculiarities of oriental fruit moth ( <i>Grapholitha molesta</i> Busck.) development in peach orchards in the Southern Steppe of Ukraine .....	148
<b>ANIMAL HUSBANDRY, FEED PRODUCTION, STORAGE AND PROCESSING OF AGRICULTURAL PRODUCTS .....</b>	156
<b>Bomko V.S., Kropyvka Yu.G., Bomko L.G.</b> Exchange of zinc, cobalt and selenium in highly productive cows in the first 100 days of lactation when feeding them mixed ligand complexes .....	156

<b>Kalinka A.K., Lesik O.B.</b> Fattening young bulls of different breeds of ruminants at the average level of feeding under the conditions of the Carpathian region of Bukovina.....	163
<b>Karkach P.M., Mashkin Yu.O.</b> Factors of influence on bird fertility and egg hatching .....	169
<b>Kondratiuk V.M.</b> Use of feeds with different levels of protein in feeding larvae and fry of rainbow trout .....	182
<b>Kramarenko A.S., Kramarenko S.S., Lugovoy S.I., Havryliuk K.I.</b> Influence of genetic and non-genetic factors on the reproductive traits in ewes .....	189
<b>Pepko V.O.</b> The influence of mineral supply of wild ungulates bred in enclosures on the quality of their trophies .....	195
<b>Pokhil V.I., Mykolaychuk L.P.</b> Dynamic changes in the lactation process in Romanov sheep .....	202
<b>Saranchuk I.I.</b> Content of unesterified fatty acids in bee thorax tissue and productive traits under feeding a food additive with different amounts of linseed oil .....	209
<b>Sobol O.M., Pankieiev S.P.</b> Use of various types of feeding of the service breeds of dogs under the conditions of amateur housing .....	216
<b>Shuliar A.L., Shuliar A.L., Tkachuk V.P., Andriichuk V.F.</b> Dependence of milk productivity of cows of Ukrainian black-and-white dairy breed on live weight in the process of their growing.....	224
<b>ECOLOGY, ICHTHYOLOGY AND AQUACULTURE .....</b>	231
<b>Bityutskyy V.S., Tsekhmistrenko S.I., Tsekhmistrenko O.S., Oleshko O.A., Heiko L.M.</b> Influence of selenium on redox processes, selenoprotein metabolism and antioxidant status of aquaculture facilities.....	231
<b>Boiko T.O., Boiko P.M., Dementieva O.I.</b> Ecological and biological analysis of woody plants of the Fabaceae lindl. family of the city of Kherson.....	241
<b>Vasylenko O.V., Balabak A.V., Shchetyna M.A.</b> Characteristics of the distribution of resources in the wild species of medicinal plants in the urban phytocenoses of Uman and Uman district.....	247
<b>Golovashchenko N.F., Nazarenko S.V., Timoshchuk I.V.</b> The influence of thinning regimes in a young pine growth on the diameter of maximum branches in the trees of the future .....	254
<b>Kovalov M.M., Kyslun O.A.</b> Agroecological condition of chernozem soils depending on the content of moving sulfur .....	266
<b>Pysarenko P.V., Korchahin O.P.</b> Ecological substantiation of water eutrophication processes regulation.....	274
<b>Skyba V.P.</b> Destruction of agro-landscapes of steppe river basins and ways of optimization of their agroecological status.....	284