

CONTENTS

AGRICULTURE, CROP PRODUCTION, VEGETABLE AND MELON GROWING.....	3
Averchev O.V., Lykhovyd P.V., Hranovska L.M., Chaban V.O., Maksymov D.O. Agroecological monitoring using remote sensing in Ukraine: A systematic literature review.....	3
Aleksieiev A. V., Izhboldin O. O. Effect of foliar application of growth stimulants on seed yield and quality of sunflower hybrids of different maturity groups under the conditions of the Northern Steppe of Ukraine	21
Alekseevich T.M., Zalevsky R.A., Kliuchevych M.M., Venger O.V. Frost resistance of table grape plants in the Zhytomyr region.....	29
Almashova V.S., Golub V.O. Phytosanitary monitoring of regulated harmful organisms in southern Ukraine	37
Andreichenko O.H., Shepilova T.P., Vasytkovska K.V. The effect of growth regulators on the development of sunflower yield in the Ukrainian Steppe	45
Andriienko A.L., Semeniaka I.M., Andriienko O.O. The effect of previous crops and primary tillage on soil agrophysical properties and maize yield	50
Bahan A.V., Hurba V.S. The influence of microfertilizers on the productivity of soft winter wheat varieties (<i>Triticum aestivum</i> L.)	64
Bazaliy V.V., Larchenko O.V. Inheritance of quantitative traits and selection efficiency of valuable morphobiotypes in hybrids depending on the combining ability of winter wheat varieties.	71
Balabash V.S. Yield of rape seed (winter) depending on the use of biological products in the south of Ukraine.....	78
Berdin S.I., Omelyanenko O.M. Effectiveness of mineral fertilization of sunflower under different predecessors in the North-Eastern Forest-Steppe of Ukraine	87
Berezovskyi A. A., The activity of selected enzymes of the oxidoreductase class in spring naked-grain barley plants following the application of biological agents.....	95
Borovyk V., Maltseva O. Influence of Abiotic Stress on Cotton Yield Formation under the Conditions of the Southern Steppe of Ukraine	101
Botsula R.P., Dolia M.M. Features of Formation and Control of Trophic Interactions of Insect Vectors of Plant Viral Diseases in the Ukrainian Steppe	114
Verheles P.M. Analysis of the Spread Risk of the Western Corn Rootworm in the Vinnytsia Region.....	121
Hanhur V.V., Vodianyuk O.V. The importance of perennial legumes in improving soil fertility.....	133
Horbas S.M., Kytaihora A.V., Koval S.M. Agrotechnological aspects of medicinal plant cultivation in various climatic conditions.....	142
Hryhoriv Ya.Ya., Formation and Development of the Agrochemical Service System in Ukraine under the Conditions of Market Relations Transformation	150
Hrytsiuk N.V., Dovbysh L.L., Tsuman N.V., Zhuravska I.A. Phytosanitary state of agrocenoses of winter wheat depending on the application of nitrogen fertilizers	157
Dzham M.A., Orekhivskiy V.D., Zorunko V.I., Zaiets S.V. Species composition of causers of septorioses of winter wheat leaves in the conditions of the southern steppe of Ukraine	166

Didur I.M., Pansyryeva H.V. Assessment of carrot safety indicators in the context of the development of the market for commercial vegetable products in Ukraine.....	173
Dovhelia O.M., Antonenko O.O. The effect of mineral nutrition and nitrogen fixer on the chlorophyll content in leaves of maize and its yield.....	180
Donets A.O., Marchenko T.Yu., Piliarska O.O., Mishchenko S.V., Lavrynenko Y.O. Dynamics of the species composition of segetal plants in permanent crops of maize hybrids under different means of protection during irrigation.....	191
Dudchenko V.V., Burdeinyi O.V. Sunflower Yield as Affected by Sclerotinia Control Measures under the Conditions of the Forest-Steppe Zone of Ukraine.....	203
Zhygailo T.S., Zhygailo O.L. Assessment of Sunflower Crop Productivity in the Steppe Zone of Ukraine under RCP Climate Scenarios	213
ANIMAL HUSBANDRY, FEED PRODUCTION, STORAGE AND PROCESSING OF AGRICULTURAL PRODUCTS	221
Balanchuk I. Metabolical and technological aspects of management of the amino acid profile in poultry diets.....	221
Bilous A.M., Senyk I.I., Karasevych N.V., Vorobets S.B. Hybrid winter rye (<i>Secale cereale</i> L.) – a new forage crop in Ukraine.....	234
Vasylyshyna O.V., Ivanova I.Ie. The effect of sour cherry storage methods on respiration intensity.....	242
Vasylyshyna O.V., Vlasenkno I.G. Methods of chemical analysis and water purification in food industry systems.....	249
Holuibeva T.A. Use of phytobiotics in quail feeding	256
Melnyk O., Drozd O., Remeniuk L. Marketability and physical parameters of Gloster apples depending on the cooling mode, treatment of trees with Ethephon and fruits with ethylene inhibitor.....	264
Zasukha L.V., Ivanov V.O., Kucher S.D. A method of air purification and increasing animal productivity by dosed ozonation	273
Zlamaniuk L.M., Osadchiy S.A. Genealogy of Thoroughbred Prize-Winning Racehorses	279
Ivanova I.Ye., Serdyuk M.Ye., Kryvonos I.A., Shkinder-Barmina A.M., Nezhnova N.H. Loss of weight of cherries and sour cherries due to the effects of pre-cooling	285
Ivakhiv M.A., Fedyna S.R. The effect of drone brood homogenate on the physicochemical, morphological, and functional parameters of boar semen	291
Ilchuk I.I., Boyarchuk S.V., Hutyi B.V. The impact of resource-saving soil treatment technologies on infestation and damage of winter wheat by harmful phytophagous insects in the forest-steppe of Ukraine	297
Kalinka A.K., Lesyk O.B., Vdovichenko Y.V., Korkh I.V., Kornyk O.V. Features of the formation of meat productivity of various created genotypes of buhaitians of a new population of meat numbers of simmental ruminants in various regions of Ukraine.....	305
MELIORATION AND SOIL FERTILITY	314
Barboy V.B., Tkulich Yu. I. The influence of different rates of post-emergence herbicides and working fluid on sunflower productivity	314

Hospodarenko H.M., Chykin I.V., Mizeraka Y.O. Impact of Fertilization Systems in Field Crop Rotation on Soil Agrochemical Properties	323
ECOLOGY, ICHTHYOLOGY AND AQUACULTURE	333
Balabak A.V., Vasylenko O.V., Balabak O.A., Shevchenko N.O., Balabak O.O. Assessment of the effectiveness of implementing modern technologies for municipal solid waste collection in the municipal management system: the case study of the city of Uman.....	333
Bodnaruk V. Y., Kropyvka Yu. G., Zhmur A. J. Genetic structure and isoenzyme spectrum of Red-and-White Holsteins	341
Buzina I.M., Holovan L.V., Chupryna Yu.Yu., Kryshtop Y.A., Klymenko I.V. Integrated radioecological approach to monitoring and modeling the impact of ionizing radiation on biodiversity in forest-steppe ecosystems.....	350
Hnatiuk N.O., Soroka Ya.V. Allelopathic potential of medicinal plants and its role in regulating the state of agrophytocenoses in the Forest-Steppe of Ukraine.....	360
Dudar V. Risk-based approach to determining threshold concentrations of explosive substances in soils (using 2,4,6-trinitrotoluene as an example) and the possibilities of its application in Ukraine.....	367
Zalizniak Ya. I. Ecological Cognition: Integration of Theoretical Foundations and Practical Solutions in the Conservation of Water Resources	378
Imamov V.O., Gurskyi I.M. The impact of rainwater on the formation of environmental risks in urban transport zones	385
Korniyenko V.I., Midyk S.V., Semenko L.O., Vishovan Yu.Yu., Samkova O.P., Berezovskyi O.V., Poltavchenko T.V. Assessment of river water and bottom sediments based on microbiological indicators	393
