

CONTENTS

AGRICULTURE, CROP PRODUCTION, VEGETABLE AND MELON GROWING.....	3
Averchev O.V., Nikitenko M.P. A comprehensive approach to the development of ecologically oriented agro-industrial production.....	3
Baklanova T.V., Mielieshko A.V. Analysis of the assortment of maize hybrids and varieties in Ukraine	11
Baklanova T.V., Fartushny D.M. Current trends in tomato cultivation in Ukraine and the world.....	18
Berdin S.I., Murach O.M., Zubko O.M., Kriuchko L.V. Dynamics of the formation of generative organs of the soybean plant under the influence of preparation for seed pre-sowing treatment	28
Bunyak O.I. Features of the formation of quantitative characters of collected samples of winter oats in the conditions of the Northern Forest Steppe of Ukraine.....	35
Vakhniy S.P., Zasukha A.A. Influence of fertilizers and plant growth regulators on the productivity of main and by-products of maize	44
Gamayunova V.V., Zadyrko R.V. The influence of seed treatment and resource-saving nutrition on the height of oil flax plants in the conditions of the Southern Steppe of Ukraine.....	56
Grechishkina T.A. Efficiency of microelements application in sun-flower plant nutrition system (literature review).....	63
Hryhoriv Ya.Ya., Turak Yu.O. Features of corn cultivation in modern conditions.....	70
Dmytrash T.I., Hryhoriv Ya.Ya. Prospects of perennial Sida cultivation on low-productivity lands (review).....	77
Dudchenko V.V., Markovska O.Ye., Stetsenko I.I., Grechyshkina T.A. Species composition and population dynamics of main phytophages in post-harvest crops of <i>Panicum miliaceum</i> L. in Southern Ukraine	84
Zhiukov O.G., Ivaniv M.O. Methods and regimes of combine harvesting of oil flax in the conditions of the Southern Steppe: agrobiological justification and ecological assessment.....	92
Ivasyk M.V. The relationship between the rate of sowing, the use of growth regulators and the productivity of soybeans in the Western Forest Steppe.....	104
Karbivska U.M., Sitnyk A.A. Productivity of miscanthus depending agricultural technology elements in sod-podzolic soil conditions on the Precarpathan region	111
Kulyk H.A., Trykina N.M. Effectiveness of growth regulators in forming forage beet productivity in the Steppe of Ukraine.....	117
Lykhovyd P.V., Bidnya I.O. Artificial intelligence and its capabilities in agronomy..	125
Lohvynenko V.V. The reasons of spreading and measures of fighting painted lady butterfly (<i>Vanessa cardui</i> L.) on soybean sown areas in Poltava region	135
Liadska I.V., Tsyluriuk O.I., Paschenko N.O. New strawberry varieties as a source of valuable elements for the human diet	144

Markovska O.Ye., Dudchenko V.V., Stetsenko I.I., Grechyshkina T.A. Protection of <i>Panicum miliaceum</i> L. crops from pests and diseases.....	150
Muller M.O. Methods of pea weevil (<i>Bruchus pisorum</i>) control.....	161
Okselenko O.M., Nazarenko M.M. Ecogenetic activity in winter wheat on the cells level.....	169
Paschenko N.O., Liadska I.V., Tsyliuryk O.I. New grape varieties as a source of valuable food elements.....	176
Polischuk V.O., Zhuravel S.V. Influence of the fertilizer system on the formation of different potato fractions	182
Rudik O.L., Chugan V.V., Mezentsev D.M. Energy assessment of technology elements for growing millet as an intermediate crop.....	189
Rud A.V. Electronic systems for monitoring tobacco cultivation	195
Sydiakina O.V., Hamula Ye.A. Current range of corn hybrids in Ukraine: analysis and prospects.....	205
Sydiakina O.V. Current state and prospects of lentil production.....	214
Sokolovska I.M., Mashchenko Yu.V. Effects of different fertilization systems on buckwheat yield in the conditions of Northern Steppe of Ukraine	224
Solokha M.O., Konshyn R.V., Dehtiarov V.V. Identifiers of the influence of military actions on land cover according to satellite data	235
Stankevych S.V., Matviienko V.M., Zabrodina I.V. Assortment of protection tools of wheat and other cereal ear cultures against harmful organisms in Ukraine in 2017–2018.	245
Stelmakh O.M., Melnychuk T.V., Kyforuk I.M., Hryhoriv Ya.Ya., Tuts L.I. Cultivation of winter rapeseed under different fertilization systems	256
Stoliar S.H., Rudenko Yu.F. Influence of sowing time on yield of grain sorghum in Polissia of Ukraine.....	264
Storozhenko D.S., Zhukova L.V., Stankevych S.V. Intensity of disease infection to sunflower.....	273
Storozhyk L.S., Romanov S.M., Zavhorodnia S.V., Balyan I.V., Tovstenko Ya.Yu. The duration of the organogenesis phases of winter peas and its productivity depends on the elements of growing technology in the Steppe and Forest-Steppe of Ukraine	281
Tyshchenko A.V., Stepanov S.S. Adaptability of sunflower hybrids of the medium maturity group to abiotic factors in the conditions of Southern Ukraine	292
Ulianych O.I., Yatsenko N.V., Kovtunyuk Z.I., Ulianych K.F. Indicators of growth of spinach during different periods of growing in a spring greenhouse	305
Khoroshun I.V., Nazarenko M.M. Development of key characters of yield and quality in new varieties of winter wheat	312
Tsyliuryk O.I., Tyshchenko V.O. The influence of plant density and mineral nutrition level on corn grain yield in the conditions of the Northern Steppe of Ukraine	319
Tsytisura Ya.G. Estimation of the decomposition rate of oilseed radish green manure in the soil based on the use of basic ratios of a number of biochemical parameters	328
Shakalii S.M., Kulyk Ye.I. Influence of processing methods with bio-stimulators on sowing quality of sunflower seeds	343

Shevchenko N.V. Principles of selection of buckwheat varieties under the conditions of climate change	351
Shevchuk M.Y., Holub S.M., Huk B.V. Effect of different lime rates under mineral fertilization on nutrient removal by winter wheat on sod-podzolic soil	358
ANIMAL HUSBANDRY, FEED PRODUCTION, STORAGE AND PROCESSING OF AGRICULTURAL PRODUCTS 365	
Borshchenko V.V., Feshchuk T.S., Mashtaliar O.V. The effectiveness of the selection of cows according to the productivity of mothers	365
Kalinka A.K., Lesyk O.B., Vdovichenko Yu.V., Stadnytska O.I., Korkh I.V. Growth, development, cultivation and productivity new populations of the Bukovina zonal type of meat komolo simmental livestock in the footland zone of the Carpathian region of Bukovina.....	372
Karbivska U.M., Chumbei V.V., Oleksiuk Yu.V. The impact of fertilization on the productivity of forage crops grown on sod-podzolic soil	384
Koroban M.P., Lykhach V.Ya. Influence of the food additive “LIPTOTRAN L” on the behaviour and degree of damage skin in pigs	391
Kostetska K.V., Herasymchuk O.P., Solovei V.O. Evaluation of grain from soft winter wheat	403
Kudryk N.A., Tsvihun A.T., Ponko L.P., Nesviatypaska V.Yu., Yakovchuk V.S., Tymofiyshyn I.I. The peculiarities of feeding Lacaune sheep under the Podillia conditions	410
Kudryk N.A., Tsvihun A.T., Yakovchuk V.S., Tymofiyshyn I.I. Wool productivity and some wool physical-mechanical properties the young sheep of Ascanian Meat-and-Wool breed, which have crossbred wool	421
Lesik O.B., Kalinka A.K. Reproductive capacity and milk productivity of planned breeds and different Bukovina types of ewes in the conditions of the Carpathian region of Bukovina.....	428
Pochukalin A.Ye., Vdovychenko Yu.V. Level of development of breeding characteristics of animals of the Holstein breed by nature and climate zones of Ukraine	435
Prylipko T.M., Koval T.V. Study of biochemical and morphological parameters of blood of high-yielding healthy and ketosis-affected cows	442
Razanova O.P., Ovsienko M.A. Potential of vitamin and mineral complex for improving growth indicators, slaughter indicators and meat quality of broiler chickens.....	448
Savchuk I.M., Kovalyova S.P. Hematological indicators of young bulls fed with genetically modified soybeans	459
MELIORATION AND SOIL FERTILITY 467	
Dmitriyevtseva N.V., Kolyadich O.O. Change in the balance of humus and nutrients in agriculture of Rivne region	467
ECOLOGY, ICHTHYOLOGY AND AQUACULTURE 473	
Boiaryn M.V., Boiaryn S.V., Voloshyn V.U. Nature reserve network of the upper reaches of the Pripet River basin	473

Vradii O.I. Hydro-ecological assessment of pond water quality	482
Glavatchuk V.A. Rationalization of the technology of growing carp with herbivorous fish in polyculture	489
Dovga T.V., Klepko A.V., Andreychenko S.V. Environmental monitoring as an effective tool for enhancing the environmental safety of enterprises on the way to their ecologization	504
Lapchynskyi V.V., Lakusta A.A., Khmelianchyshyn Yu.V. Impact of climate change on agronomy: assessment and adaptation measures.....	516
Medvedieva O.V., Kovalov M.M., Mirzak V.Ya., Dubyna A.O. Justification of the possibility of manufacturing spherical fuel briquettes from coffee grounds	525
Melnichenko S.H., Honcharova O.V., Shevchenko V.Yu. Assessment of the fishery potential of small reservoirs in Southern Ukraine: a case study of the yelanets reservoir.....	534
Patseva I.H., Herasymchuk L.O., Valerko R.A., Sikach T.I., Ivashkina O.L. Concentration of heavy metals in corn phytomass	544
Rula I.V., Holoborodko K.K., Sytnyk S.A., Lovynska V.M., Ivanko I.A. Thermal degradation of wood of different trunk ages <i>Robinia pseudoacacia</i> L.	549
Shvets T.V., Lisohurska D.V., Tymoshchuk T.M., Furman S.V. Vectors of development of green agriculture in Ukraine	556