

CONTENTS

AGRICULTURE, CROP PRODUCTION, VEGETABLE AND MELON GROWING	3
Bahan A.V., Yurchenko S.O., Shakaliy S.M. Formation of seed sowing qualities of legumes depending on growth stimulator Foliar Concentrate.....	3
Balashova G.S., Kotov B.S., Kotova O.I., Yuziuk S.M., Yuziuk O.O. Seed productivity of potato varieties of different ripeness groups in summer planting of freshly harvested tubers under the conditions of the Southern Steppe of Ukraine	10
Bozhenko A.I., Syzenko O.Ye. Selection, assessment and creation of source material of meadow clover (<i>Trifolium pratense</i> L.) under the conditions of the Northern Forest-steppe of Ukraine	17
Borysenko V.V., Karnauh O.B., Nakleka Yu.I., Novak A.V., Usik S.V., Koval G.V. The influence of plant height and diameter of inflorescences on sunflower productivity depending on sowing density and row spacing	28
Gerasko T.V., Yeremenko O.A., Ivanova I.Ye., Pokoptseva L.A. Productivity indices of sweet cherry trees under intercropping with medicinal plants	35
Yeremenko O.A., Kapinos M.V. The influence of presowing seed treatment on the productivity of varieties of peas in the conditions of the Southern Steppe of Ukraine.....	41
Kalenska S.M., Gorbatyuk E.M., Garbar L.A. The role of sowing parameters in sunflower phytometric indicators formation.....	49
Kovalov M.M., Mostipan M.I. Formation of productivity of exotic species of oyster mushroom under the impact of EM solutions.....	55
Lykhovyd P.V., Lavrenko S.O., Lavrenko N.M. Efficiency of the methods of statistical data analysis in forecasting winter wheat yields on the regional scale using the remote sensing data	62
Liubych V.V., Voitovska V.I., Yereimeieva O.A. Formation of oat and hullless oat productivity depending on variety and seeding rates	68
Makukha O.V. Fennel (<i>Foeniculum vulgare</i> Mill.) yield prediction using a regression model	75
Melnyk A.V., Romanko Yu.O., Romanko A.Yu. Adaptive potential and stress resistance of modern soybean varieties.....	85
Melnyk T.I., Ali Shahid, Kolosok V.G. The quality of white mustard seeds according to the variety and seeding rates under the conditions of the Northeastern Forest-steppe of Ukraine.....	92
Nepran I.V., Romanova T.A., Litvinova O.M. Getting full-value and ecologically safe chickpea products.....	98
Osinnii O.A., Averchev O.V., Lavrenko S.O. The influence of technological methods of rice growing on grain yield under drop irrigation in the conditions of the Southern Steppe of Ukraine	104
Pikovskiy M.Y., Patyka T.I., Kolesnichenko O.V., Milantieva T.S., Patyka M.V. Influence pathogen gray mold <i>Botrytis cinerea</i> Pers. on plant photosynthetic apparatus zonal pelargonium.....	114
Saiuk O.A., Troiachenko R.M. Application of disinfectants in the potato protection from diseases and pests.....	121
Uvarenko K.Yu. The influence of compaction of typical heavy loam chernozem on biometric indicators and productivity of intensive and semi-intensive varieties of spring barley	128

Usyk S.V., Yeshchenko V.O., Karnauh O.B. The influence of different preceding crops of spring barley on spring reserves of available moisture when grown in short-term crop rotations.....	135
Tsvei Ya.P., Myroshnychenko M.S. Effect of no-till tillage system on the formation of weakly alkaline chernozem fertility in winter wheat and maize crops.....	140
ANIMAL HUSBANDRY, FEED PRODUCTION, STORAGE AND PROCESSING OF AGRICULTURAL PRODUCTS	148
Balabanova I.O., Politrava L.A. Features of technology of milk production and processing under the conditions of Dolynske Trading House Ltd in Chaplynskyi district, Kherson region	148
Grigorenko V.L. Stall SP-4FS for a two-phase technology of pig breeding under a combined type of feeding	153
Kalinka A.K., Lesik O.B. Mathematical modeling of the process of intensive rearing of calves when using various mineral additives in feeding in the foothill zone of the Carpathian region of Bukovina	164
Kondratiuk V.M. Efficiency of raising rainbow trout fingerlings at different energy levels in feeds	174
Kramarenko A.S., Sukhoruchko T.O., Kramarenko S.S. Polymorphism and association of STR loci with growth traits in heifers of the Southern beef cattle.....	181
Kropyvka Y.G., Bomko V.S. Digestibility of fodder and Nitrogen metabolism in highly productive cows in the first lactation period when fed mixed ligand complexes of Zinc, Manganese and Cobalt.....	193
Osipenko O.P., Lykhach V.Ya., Lykhach A.V., Faustov R.V., Kiselova S.O. The influence of liquid and dry forms of phytobiotics on growth intensity of piglets during weaning.....	200
Pankeiev S.P., Yavorskyi V.O. Prospects for organic beef production using the Southern beef breed	207
Prylipko T.M., Koval T.V. Modeling of heat transfer and mass transfer process of meat paste processing when heating in containers	214
Prylipko T.N., Shulko O.P. The influence of optimal diet recipes including complex drug Devivit-Selenium on production traits in young simmental cattle under the conditions of the Carpathian region of Bukovina.....	220
Sakhatsky M.I., Osadcha Yu.V., Kuchmistov V.O. Productivity of laying hens of an industrial herd kept in cages of six and twelve-tiered batteries.....	226
MELIORATION AND SOIL FERTILITY	233
Babych O.A. Content of heavy metals and microelements in the soil at the end point of the South Bug irrigation system	233
Zubov O.P., Zubova L.G. Determination of the parameters of systems of forest shelterbelts and evaluation of their condition using the Google Earth Service (by the example of the Hola Prystan district of the Kherson region of Ukraine).....	240
Furman V.M., Solodka T.M., Moroz O.S. Features of forming the temperature regime of the drained peat soils under structural amelioration.....	253
ECOLOGY, ICHTHYOLOGY AND AQUACULTURE	260
Shakhman I.O. Ecological water quality estimation of the middle course of the Southern Bug River by hydrochemical parameters	260