BULLETIN

NATIONAL UNIVERSITY OF WATER AND ENVIRONMENTAL ENGINEERING

ISSN 2306-5478 V O L U M E 3(95)

https://doi.org/10.31713/vs320210

Founded In 1999

The given Collection of Scientific Papers is approved by the Decree of the Ministry of Education and Science of Ukraine # 1188 dated September 4, 2020, category "B" (majors: 101, 201) **Collection of Scientific Papers**

Agricultural Sciences

Scientific Editorial Board Address: 33028 Rivne, vul. Soborna, 11, NUWEE

Tel: (0362)63-57-31

© National University of Water and Environmental Engineering, 2021 The collection contains scientific papers on ecology, agricultural reclamation (agricultural sciences), agricultural soil science and agrophysics, rational use of natural resources and water bioresources. The given Bulletin is designed for scientists, engineers, graduate students and undergraduate students of educational establishments.

Senior Editor: Moshynskyi V. S., Doctor of Agricultural Sciences, Professor, Rector. Executive Secretary: Vozniuk N. M., Candidate of Agricultural Sciences, Associate Professor Department of Ecology, Environmental Protection Technologies Environment and Forestry.

Scientific Editorial Board:

Klymenko M. O., Doctor of Agricultural Sciences, Professor, (NUWEE, Rivne) Pryshchepa A. M., Doctor of Agricultural Sciences, Professor, Director of Institute Agroecology and land Management (NUWEE, Rivne) Skrvpchuk P. M. Doctor of Economics. Professor (NUWEE, Rivne) Hryb Y. V., Doctor of Biological Sciences, Professor (NUWEE, Rivne) Klymenko O. M., Doctor of Agricultural Sciences, Professor (NUWEE, Rivne) Biedunkova O. O., Doctor of Biological Sciences, Professor (NUWEE, Rivne) Hrokhovska Y. R., Doctor of Agricultural Sciences, Professor, (NUWEE, Rivne) Lysytsia A. V., Doctor of Biological Sciences, Professor Department of Ecology, Geography and Tourism (Rivne State Humanitarian University) Mudrak O. V., Doctor of Agricultural Sciences, Professor, Head of the Department of Ecology, Natural and Mathematical Sciences (Municipal Higher Educational Institution «Vinnytsia Academy of Continuing Education») (Vinnytsia) Kovalchuk N. S., Candidate of Agricultural Sciences, Associate Professor (NUWEE, Rivne) Lychuk Taras, Department of Agriculture of Canada, chief researcher, head of the research program of precision agriculture, Ph.D (Ottawa, Canada) Panasiuk Damian, Cardinal Stefan Wyszynski University in Warsaw · Faculty of Biology and **Environmental Sciences** Doctor of Philosophy (Warsaw, Poland)

All papers have been reviewed and accepted for publication by the Academic Council of the University on September 02, 2021, Academic Council Meeting Minutes #9.

Scientific Editorial Board Address: 33028, Rivne, vul. Soborna, 11, NUWEE © National University of Water and Environmental Engineering, 2021