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RESEARCH ON POTATO IN SOUTH OF UKRAINE IN THE SECOND HALF XX - EARLY XXI CENTURY

Summary

An important part of improving the efficiency of potato industry in the South of Ukraine is to create its own system of seed production. This is because the weather conditions in Southern Ukraine accelerate the degeneration of potatoes.

The question of seed potatoes in the South of Ukraine are not engaged by the end of the 80s of 20th century. However, the conditions of Kherson province potato culture was studied from 1891 Kherson rural experimental field (1889). In particular, the search was conducted of the best varieties. Since 1925, the department of irrigated crops in Kherson agricultural research stations were established experiments to study the effect of irrigation on potatoes. Since the mid-1950s conducted research on the development of technology elements potato cultivation under irrigation in the South of Ukraine.

The author summarizes the main results of the Institute's of Irrigated Agriculture research potato. Scientists institutions established accelerates degeneration of potatoes in the South of Ukraine. In connection with this institution in 1988 was organized microclonal biotechnology laboratory. Scientists have

developed an efficient system of seed potatoes using biotechnological methods of plant active recovery from a viral infection in the preparation of the starting material and the twoyielding method culture at its next reproduction.

Research has established the role of scientists laboratory of potato in the Institute of Irrigated Agriculture and their contribution to the development of potato growing in the South of Ukraine during the second half of the 20th century. – the beginning of 21st. Over the past 50 years, significant results in research on potato in the South of Ukraine reached scientists Boyko M., Benyuh B., Bugaeva I., Balashova H., Chernichenko I. etc.

Today, the lab biotechnology potatoes of the Institute of Irrigated Agriculture NAAS developed methods of preparing virus-free planting material source material (plants in vitro, micro bulbs, mini bulbs); timing and methods of planting; determined the impact of different precursors and biological meliorants on plant growth and development, disease prevalence and performance. In addition, constantly improved agrotechnological achievements of previous years of research.

Keywords: *potato, seed, irrigation, biotechnological methods, the South of Ukraine.*