

THE EFFECT OF MANAGEMENT PRACTICES ON THE QUALITY OF WHEAT AND MAIZE HARVEST

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Abstract. *The researches were performed during the 2009 – 2012, in the experimental field of NARDI Fundulea and aimed to study the influence of agrotechnical practices on the quality of wheat and maize. The paper presents the results obtained in long term experiences with fertilizers and rotations at wheat and maize, under non-irrigation condition. The quality of yield is directly influenced by the fertilizers quantity and crop rotation. The protein content increases with the nitrogen rate applied and less with phosphorus rate, but together (NP) have a significant effect for both wheat and maize. This percentage varied between 9.0 - 15.4% for wheat and 5.5-9.4% for maize depending on crop year.*

Key words: crop rotation, fertilization, yield quality, wheat, maize

Introduction

In terms of agriculture modernization required knowledge and management factors that influence product quality. An important role of the environment and agro-technical measures that the background genetic characteristics of varieties or hybrids contribute to changes in quality parameters. Improving the quality of crops is subject to particularly fertilizer, which is an important technological component of the feed requirements of the plant [1, 2, 3, 4], and a location of crops [5, 6, 7, 8].

This paper aimed to estimate the quality of crop rotation and fertilization on yield of wheat and maize crops.

Material și methods

The research was conducted in NARDI Fundulea on the cambic chernozem soil, without irrigation, in a stationary experience established in 1967. Experimental variants studied are: wheat and maize monoculture, two-year rotation (wheat - maize), three-year rotation (wheat - corn - peas) and four-year

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