

**INFLUENCE OF DIFFERENT LEVELS OF WATER SUPPLY  
ON PRODUCTION AND ECONOMIC EFFICIENCY  
UNDER MAIZE CULTIVATED IN DOBROGEA REGION OF ROMANIA**

**Cristian Laurentiu DRAGOMIR<sup>1</sup>, Elena PARTAL<sup>2</sup>**

e-mail: tomis307@yahoo.com

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**Abstract**

Profitability is one of the most important economic parameters taken into account in any economic activity. The aim of the paper was to establish maize productivity and profitability of some hybrids with different precocity under several levels of water, in the conditions of Romanian Dobrogea region. Economic efficiency was evaluated using specific economic indicators (production cost, net profit and net profit rate) in order to establish which hybrids perform better. Identification, establishment and improvement of technological links to determine and maintain the achievement of high yields in order to reduce costs per hectare, we must determine as specialists, to grant a real influence of technological parameters and climatic conditions. In this study, the main technological parameters are: application of irrigation, the origin of germplasm (hybrids) and the early hybrids.

**Key words:** maize, yield, irrigation, productivity, profitability.