

OPERATING BEHAVIOR OF THE IRRIGATION SYSTEM UNDER OUAI "AQUA" NORTH SOLONEȚ BIVOLARI

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Abstract

The need to rehabilitate and modernize the old irrigation facilities is even greater, due to the fact that most irrigation systems were built before 1989, respecting the functional parameters of that period. Even if some of them have operated at minimum capacities or have been exploited only on certain sections, the physical and moral wear and tear do not allow their exploitation in conditions of maximum efficiency. The opportunity to rehabilitate the old irrigation systems comes with the launch of the National Program for the Rehabilitation of the Main Irrigation Infrastructure in Romania, by PNDR, in 2007. A series of Organizations of Water Users for Irrigation (OUAI) benefited from European funds, submitting financing projects, this being also the case of OUAI AQUA NORTH SOLONEȚ BIVOLARI, from Iasy County. The necessary funds were obtained for the rehabilitation of the Pumping and Pressurization Station SPP 1.b. by Measure 125 a1. Since the commissioning, in 2014, and until now, no malfunctions of the water network and distribution have been registered, nor on the other components of the station. Rehabilitation works were designed, executed and maintained rationally, so that no malfunctions occurred. After the rehabilitation of the irrigation system, production increases were obtained for the corn crop of 6.67% -38.48%, depending on the climatic conditions of the analyzed years.

Key words: rehabilitation of irrigation system, increase production, maize cultivation