

## DETERMINATION OF QUALITY INDICATORS OF PRUT RIVER WATER

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**Abstract.** This study presents an assessment of water quality of Prut River using the Water Quality Index (WQI), calculated according to the weighted arithmetic water quality index method. The following quality indicators were considered: pH, total dissolved solids, hardness, chemical oxygen demand, dissolved oxygen, sulphate, nitrate, and ammonium ions and heavy metals (Mn, Cd, Pb, Hg, Ni, Cu, and Zn) concentrations. The obtained results show that the water of Prut River may be classified according to WQI as good water quality of grade B for sampling points Sculeni and Cislita-Prut villages, and very poor water quality of grade D collected in the sampling point Criva village.

**Keywords:** Prut River, heavy metal, quality indicator, Water Quality Index.

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