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Dissolved Phosphorus and Nitrates Concentration in a lowland rural River

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The problem of the nutrients concentration changeability in small rural, usually not monitored, rivers becomes more important in Poland. Warsaw University of Life Sciences - SGGW carries on the investigation in small lowland Zagożdżonka river located in Central Poland. The results of changeability of dissolved reactive P (DRP) and nitrates in the river, investigated during years 1991-1995, have been analyzed. The concentrations and loads from one measuring point (Czarna gauging station) has been compared with second investigation period, years 1999-2000. The high DRP concentration has been recorded during each period with average 0,44 mgPO4/1 and 0,41 mgPO4/1 respectively (highest ever recorded 1,95 mgPO4/1). The nitrates concentration varied more. The average concentration for the first investigation period has been investigated for 1,18 mgNO₃/1 and 4,16 mgNO₃/1 for the second period. From time to time, during particular flood events, the nitrates concentration exceeded 40 mg NO₃/1.