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OCENA AKTUALNEGO STANU ICHTIOFAUNY
I MOŻLIWOŚCI PRODUKCYJNYCH DORZECZA RZEKI RABY

1. BIOLOGICZNO-RYBACKA CHARAKTERYSTYKA
GÓRNEGO ODCINKA RZEKI RABY I JEJ DOPŁYWÓW

INVESTIGATIONS OF THE PRESENT CONDITION OF THE ICHTHYOFAUNA
AND POSSIBLE EXPLOITATION OF THE RABA RIVER DRAINAGE BASIN

PART I. BIOLOGICAL - FISHERY CHARACTERIZATION
OF THE UPPER PART OF THE RABA RIVER AND ITS TRIBUTARIES

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ABSTRACT

Present condition of ichthyofauna was investigated in the upper drainage basin of the Raba River. Results obtained were compared with earlier literature data. Fishing was carried out in 19 sites, using an electric current generator. Water was sampled for chemical analysis and bottom fauna for determining their abundance and biomass. Morphologically, the investigated drainage area has not changed in comparison with the sixties. In contrast, its water quality deteriorated. The advantage of eutrophication of the Upper Raba drainage basin is proved by the domination of Diptera in the species composition of the bottom fauna. 11 fish species were recorded. Only speckled trout (*Salmo trutta m. fario* (L.)) and brook minnow (*Phoxinus phoxinus* (L.)) inhabit the whole upper Raba River drainage basin. In comparison with the fifties the abundance of grayling has much decreased, it occurred in only 4 sites. In particular sites, trout constituted from 0.3% to 82% of the total ichthyofauna abundance. In respect of fisheries the upper Raba River drainage basin may be divided into the upper, middle and lower trout realms.