

CONTENTS

The institute and its scientific board	V
The staff and field of work	VI
1. INTRODUCTION	1
2. RESERVOIRS	5
2.1. Chemistry	5
2.1.1. Dissolved and dispersed substances in reservoirs	5
2.1.2. An analysis of phosphorus and nitrogen sources in reservoir basins	5
2.1.3. Recovery mechanisms of river and reservoir ecosystems after reduced nutrient (phosphorus and nitrogen) input from the watershed (project of V. Vyhnálek supported by the grant No. 204/93/1310, Grant Agency of the Czech Republic)	7
2.2. Microbes	7
2.2.1. Microbial characteristics of the reservoirs	7
2.2.2. Římov micro- to nanozooplankton composition	9
2.3. Phytoplankton.....	12
2.4. Zooplankton	15
2.4.1. Net zooplankton in the Slapy and Římov Reservoirs	15
2.5. Fish stock composition in the Římov Reservoir in 1995	15
3. SPECIAL INVESTIGATIONS	16
3.1. Survival of <i>Vibrio cholerae</i> in the presence of chitin	16
3.2. Summary of the project supported by grant No GA AVCR 617102 awarded to K. Šimek	18
3.3. Crustaceans in the plankton of pools and oxbows in the Lužnice River inundation area	19
3.4. Size fractionation of zooplankton samples by live sieving	23
3.5. Ingestion of microscopic particles by fish	26
3.6. Effect of small hydropower on stream biota	28
3.7. Surveys of fish stock of European Reservoirs	30
PUBLICATIONS	31