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	Streams; 4.2 Particulate Organic Matter; 4.2.1 Particulate Organic Matter in Streams; 4.2.2 POM Inputs to the Breitenbach; 4.2.2.1 Measuring Periods and Methods; 4.2.2.2 Seasonal Distribution of CPOM Inputs; 4.2.2.3 Amounts of CPOM Inputs in Various Years and Stream Sections; 4.2.2.4 Composition of CPOM Inputs; 4.2.2.5 Total Inputs of POM; 4.2.3 Standing Stocks of POM in the Breitenbach; 4.2.4 Outputs of POM from the Breitenbach; 4.3 Dissolved Organic Matter; 4.3.1 Dissolved Organic Matter in Streams 4.3.2 Concentrations and Dynamics of Dissolved Organic Matter in the Breitenbach4.3.3 Inputs and Outputs of Dissolved Organic Matter to and from the Breitenbach; 4.3.4 Composition of Dissolved Organic Matter in the Breitenbach; 5.2 The Communities; 5.2.1 Algae; 5.2.1.1 Algal Assemblages in Streams; 5.2 The Communities; 5.2.1 Algae; 5.2.1.1 Algal Assemblages in Streams; 5.2.1.2 Spatial and Temporal Patterns of Diatom Occurrences in the Breitenbach; 5.2.1.3 Variation in Algal Biomass; 5.2.1.4 Effects of Discharge on Benthic Diatom Assemblages; 5.2.1.5 Microhabitats 5.2.1.6 Species Occurrences and Ecological Inferences5.2.1.7 Impact of Grazers on Algal Assemblage and Biomass; 5.2.1.8 General Conclusions from a Particular Ecosystem; 5.2.2 Macrophytes; 5.3 Primary Production; 6: Bacteria and Fungi; 6.1The Role of Bacteria and Fungi in Streams; 6.2.1.4 Abundance in Different Habitats; 6.2.1.2 Effects of Temperature and Discharge on Suspended Bacterial Abundance; 6.2.1.3 Bacterial Biomass; 6.2.2 Bacterial Community Composition; 6.2.2.1 Methodological Approaches; 6.2.2.2 Cultivation 6.2.2.3 Fluorescence in situ Hybridization
Sommario/riassunto	Pollution of freshwater resources becomes an issue in virtually every country undergoing an industrialization process. While the main emphasis has been for many years on lakes due to their limited capacity of self-renewal, streams and rivers attract increasing attention due to their importance for agriculture, fisheries, drinking water reserves and as feeder of freshwater lakes and reservoirs. There are many factors influencing the ecology of streams, only some of them relating to direct anthropogenic influences and it is important to have reliable long term data on natural occurring variat