

INSTREAM FLOW NEEDS

Volume I



American Fisheries Society

Volume I

PROCEEDINGS
of the
Symposium and Specialty Conference
on

INSTREAM FLOW NEEDS

Presented by the
Western Division of the
AMERICAN FISHERIES SOCIETY
and the
Power Division of the
AMERICAN SOCIETY OF CIVIL ENGINEERS

*Solutions to technical, legal, and
social problems caused by increasing
competition for limited streamflow.*

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FOREWORD

The original intent of this conference, as it was conceived in the early 1970's, was to provide a forum and a proceedings to serve as a focal point and a primary reference for persons working on water resource allocation problems. This intent has not changed, though the emphasis on program and proceedings content shifted. Originally the conference was to serve the technical needs of disciplines dealing with methodologies. These needs were thoroughly assessed by a cooperative study, workshop and report prepared by the U.S. Fish and Wildlife Service, Utah State University, and numerous reviewers. Recognizing this accomplishment, the Steering Committee for the Instream Flow Needs Conference revised the original program to emphasize the interdisciplinary aspects of current problems, namely communication and the awareness of legal, social, and technical aspects of preserving instream values and diversionary necessities in emerging areas of conflict.

The success of any conference is, of course, the result of the combined efforts of many people. But the expertise and motivation of the individual contributors is the essence of the endeavor, and their contributions are sincerely appreciated. Also recognized are the cooperation and financial assistance of the following: U.S. Fish and Wildlife Service; U.S. Forest Service; Water Resources Council; Federal Energy Administration; Sport Fishing Institute; Trout Unlimited; State of Washington Water Research Center; and the Albrook Hydraulics Laboratory, Washington State University, where the proceedings was edited. The broad sponsorship reflects the multidisciplinary character of the program and the proceedings.

Papers are arranged in the chronological order of presentation at the conference. Each author prepared his paper camera ready for printing. The papers were reviewed by the editors who assisted with minor corrections or adjustments, but the language of the authors was retained.

We hope that the users of these proceedings will find them to be a valuable reference for instream flow problems.

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