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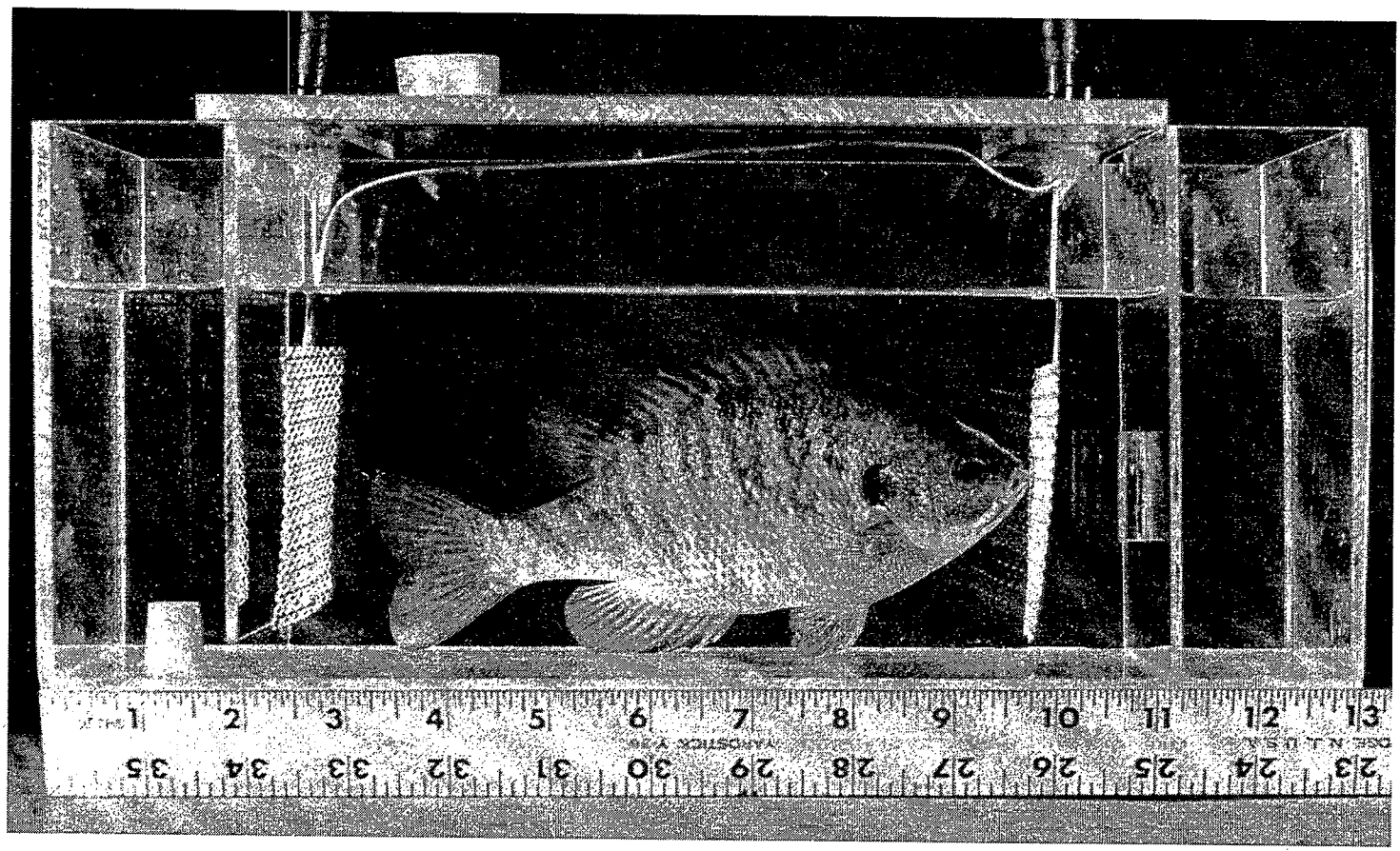
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Aquatic Animal Respiration and Cough Response Applied to Innovative Environmental Biomonitoring:

A Bibliography



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AQUATIC ANIMAL RESPIRATION AND COUGH RESPONSE APPLIED TO INNOVATIVE ENVIRONMENTAL BIOMONITORING: A BIBLIOGRAPHY

By

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**U.S. ENVIRONMENTAL PROTECTION AGENCY
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PREFACE

This bibliography encompasses a body of in-depth technical information on the mechanics and physiology of respiration in aquatic animals (vertebrate and invertebrate). In compiling the bibliography, special emphasis was given to identifying studies that deal with responses of this sensitive physiological system to environmental stressors. Furthermore, studies describing how ventilation and cough response physiology have been incorporated into innovative telemetry and biomonitoring techniques for use in environmental monitoring and protection were of particular interest. In addition, there are a few papers included that deal with the biochemical and cardiovascular aspects of the respiratory process, but in most cases these demonstrate an inter-relationship with branchial ventilatory and cough response mechanics.

This bibliography was meticulously compiled over a 25 year period by Mr. Richard W. Carlson (Research Aquatic Biologist, retired, 1998). Due to the nature and extent of the literature describing the use of ventilatory and cough responses in biomonitoring for pollution control, the colleagues of Mr. Carlson at the Mid-Continent Ecology Division felt it was important to make this excellent bibliography available to others. This bibliography is especially useful given the continued importance of biomonitoring in determining the impacts of point and non-point source pollution on surface waters and in judging the success of sewage and industrial waste treatments.

The bibliography contains 857 citations through 1998 covering published journal articles, symposia, book chapters, books and government reports. The citations are arranged in alphabetical order by author and year. An indexed author list, keyword list, and taxon list are included to assist in locating specific information. A wide variety of library abstracting services were available and used in compiling this comprehensive bibliography.

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