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PREFACE

Mrs. Linda C. Hall established the wetlands reference card file and prepared the first wetlands bibliography (Research Report No. 33). Her work has been updated and expanded by Stanton J. Kleinert, and a preliminary draft is being offered now for the use of interested persons.

Since the authors have left the project for other positions, further checking and updating will be done in a final draft at a later date.

We are indebted to George Brader and his staff for their work in adapting the reference file to punch cards for automatic processing and retrieval. Automatic processing greatly facilitated the preparation of this bibliography and will substantially reduce the work required to update the bibliography in the future.

This project was supported by funds made available through Chapter 36, 1965 Supplement to the Wisconsin Statutes (36.245), under the Accelerated Water Resources Research and Data Collection program.

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INTRODUCTION

Wetlands are lowlands which are waterlogged or covered with shallow or temporary waters. They may be marshes, swamps, bogs, fens, wet meadows, potholes, sloughs, or river-overflow lands. Wetlands are a natural resource, supporting a vast and diverse range of plant and animal life, the full value of which is only beginning to be accounted.

The original wetland acreage of the United States was estimated to have been 127 million acres, of which about 45 million acres were lost to drainage, filling or flooding by 1955 (F86). Wisconsin wetlands originally comprised about 5 million acres. Approximately half of these have been drained or affected by drainage (F65). The remainder, about 2½ million acres in 1955, includes 380,000 acres classified as of high value to waterfowl. Peat and muck soils associated with wetlands represented about 8¼ percent of Wisconsin's soil resources, and these are mostly undeveloped (C196).

Because they are subject to increasingly pressing claims from agriculture, industry, municipalities seeking solid waste disposal sites, recreation and wildlife, wetlands are becoming the focus of much controversy. Tension between exploitation, destruction, and preservation interests is mounting, and the question of their most advantageous use has become an ecological and economic problem of high priority, requiring scientific evaluation of both short-term and long-term human needs and land capabilities.

This bibliography has been assembled to assist workers concerned with wetlands management and research. Wetlands management and research projects often cut across inter-disciplinary boundaries and concern many fields of science. This listing of references on wetlands is intended to provide a gateway to the rest of the literature and should give a good start to a review of nearly any aspect of the field. However, the bibliography is not intended to encompass the entire range of information on wetlands and could not practically include all pertinent references.

The bibliography includes papers on vegetation, animals, soils and soil organisms, ground and surface water, hydrology, exploitation, destruction, construction, conservation, management, classification, inventory, survey, and values. The coverage extends to fresh-water marshes, swamps, bogs, wet meadows, potholes, sloughs, and overflow lands, but grades off at stream and aquatic environments.

The first Bibliography of Freshwater Wetlands Ecology and Management, prepared by Hall in 1968

(D78.1), included 3,302 references. This bibliography represents an updating of Hall's work. A total of 503 new references have been added and all references have been coded on punch cards for automatic processing and retrieval to facilitate future updating of the bibliography. The list of publications reviewed for the new references is presented below. In addition to these publications many monographs were reviewed.

The form of the bibliography is identical to that used by Hall in 1968. References were styled according to the Style Manual for Biological Journals and "Bibliographic Style," by Margaret S. Bryant, U.S. Department of Agriculture Bibliographic Bulletin 16 (June, 1951). Words were abbreviated in conformity with these publications and the American Standard for Periodical Title Abbreviations, published by the American Standards Association Inc., 10 E. 40th Street, New York, N.Y. 10016 (1964).

Foreign language entries give English titles where possible and cite the abstract, where one is known, rather than the original journal. Abstract numbers are included for English language titles at the end of the entry, using the following type of abbreviation.

Biological Abstracts, Volume 38, page 19562=BA38:19562

Chemical Abstracts, Volume 34, page 2513=CA34:2513

Wildlife Review, Volume 88, page 19=WR88:19

The arrangement of titles is both numeric and alphabetic. Titles having no authors are designated "Anonymous." The keyword index is an alphabetic listing of significant words in titles and texts. It was compiled from the titles and, in about half the entries, from abstracts or the papers themselves. The keywords are qualified by phrases which may be from the title. Up to five or six keywords might be indexed for a single paper. Two or three is more usual. Numbers in the keyword index refer to the bibliographical entries.

An attempt was made to employ a flexible filing system to which new references could be added with a minimum of effort and to which reasonably quick reference could be made. The bibliography will be maintained in Wisconsin Department of Natural Resources offices in card form by addition of decimal number entries with appropriate keyword index entries. It is estimated that approximately six weeks per year would be required by a worker to search current literature and update the card file.

<u>Subject Area</u>	<u>Publication</u>	<u>Issues Reviewed</u>
Animals and Animal Communities	Annual Review of Entomology	Vols. 12-14 (1967-69)
	California Fish and Game	Vols. 52-53 (1966-67)
	Ecology	Vols. 48-49 (1967-68)
	Fishery Bulletin	Vols. 66-68 (1966-68)
	Journal Fishery Research Board of Canada	Vols. 24-26 (1967-June 69)
	Journal of Mammalogy	Vols. 48-49 (1967-68)
	Journal of Wildlife Management	Vols. 30-32 (1966-68)
	Sport Fisheries Abstracts	Vols. 12-14 (1967-No. 1-2, 69)
	Transactions American Fisheries Society	Vols. 97-98 (1968-No. 1-2, 69)
	Wildlife Review	Vols. 125-132 (1967-68)
General and Miscellaneous	Biological Abstracts	Vols. 48-50 (1967-69)
	Environmental Science and Technology	Vol. 3 (1969)
	Naturalist	— (1959-66)
	Natural History	Vols. 76-77 (1967-68)
	Natural Resources Journal	Vols. 7-8 (1967-68)
	Technology and Culture	Vols. 8-9 (1967-68)
	Wisconsin Conservation Bulletin	Vols. 32-34 (1967-69)
Plants and Plant Communities		
	American Journal of Agricultural Economics	Vols. 49-50 (1967-68)
	American Midland Naturalist	Vols. 77-80 (1967-68)
	Botanical Review	Vol. 34 (1968)
	Economic Botany	Vols. 21-22 (1967-68)
	Journal of Applied Ecology	Vols. 3-5 (1966-68)
	Journal of Ecology	Vols. 55-56 (1967-68)
	Journal of Forestry	Vols. 65-66 (1967-68)
	Plant and Soil	Vol. 28 (1968)
Soils, Ground Water, and Surface Water		
	American Water Works Association Journal	Vols. 59-60 (1967-68)
	Canadian Journal of Soil Science	Vols. 46-47 (1966-67)
	Civil Engineering	Vols. 37-39 (1967-June 1969)
	Journal of Soil and Water Conservation	Vols. 20-22 (1965-67)
	Sanitary Engineering	Vols. 93-94 (1967-68)
	Soil Conservation	— (Aug. 65-July 67)
	Soil Science	Vols. 104-106 (1967-June 1969)
	Soil Science Society of American Proceedings	Vols. 31-32 (1967-68)
	Water Pollution Control Federation Journal	Vols. 40-41 (1968-Aug. 1969)
	Water Research	Vols. 1-2 (1967-1968)

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