ANNOTATED BIBLIOGRAPHY ON BIOLOGY OF AMERICAN MENGHADEN

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FISHERY BULLETIN 170
From Fishery Bulletin of the Fish and Wildlife Service
VOLUME 60
ABSTRACT

A bibliography pertaining to the biology of the menhaden, genus Brevoortia, including the seven species reported from North and South American waters. Included are references occurring in scientific or technical literature and duplicated reports of established series published before and during 1957. Brief annotations and a subject index are included.

When biological studies of the Atlantic menhaden resource were undertaken in 1955 by the Menhaden Investigations of the U.S. Fish and Wildlife Service, and studies of the gulf menhaden resource in 1957 by the Gulf Coast Research Laboratory under U.S. Fish and Wildlife Service contract No. 14-19-008-9335, it was recognized that a review of the literature was fundamental to planning the research program. This bibliography was therefore prepared to assist investigators in the conduct of these studies. The bibliography deals chiefly with the American menhaden, Brevoortia tyrannus (Latrille), of the gulf menhaden, B. patronus Goode, the species of greatest importance to the menhaden industry of the United States. Three additional species occurring in North American waters are included: B. andersii Hildebrand, a distinct species of minor importance in the south Atlantic region; B. gunnerti Hildebrand, a similar and distinct species of minor importance in the Gulf of Mexico; and B. brevicaudata Goode, a question marks species described from a single collection at Nova Scotia, Canada, in 1857. Two additional species, B. aerea (Agassiz) and B. peronii, have been reported from the Atlantic west of South America; the few references pertaining to these species, that were available to the author, have been included.

Two genera, Ethmalosa Thompson from the west coast of South America and Ethmalosa from the Atlantic coast of Africa, although only allied to the menhaden, have not been included unless reported as Brevoortia.

In review of the literature, certain criteria were established to distinguish references that were to be included from those that were to be excluded from the work. In general, references pertaining to distribution, occurrence, abundance, life history, physiology, ecology, and behavior were included. References concerned with the technological aspects of the fishery and the reduction industry.

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daily, monthly, or annual landing reports and statistics; and popular accounts in trade journals, newspapers, and magazines were excluded. Included are references occurring in scientific and technical literature published before and during 1957. A few references published in 1958 have been included. Generally, administrative or progress reports have been omitted. Mimeoographed or similarly duplicated reports of an established series, when principally concerned with the menhaden, have been excluded.

Literature respecting the menhaden contains relatively few major contributions. Many of the references make only a brief mention or listing of the species, but since the name often occurs in an index it was considered advisable to include all entries, with annotations, to guide the investigator.

The arrangement of the references is by authors, listed alphabetically. If there is more than one author, entry is made only under the senior author's name. Each author's works are listed chronologically by year of publication, and those published in the same year are given alphabetical sequence by title. Generally, pagination is given only for the parts of the publication falling within the scope of the bibliography furnishing information on the extent of the reference material. Very brief annotations of the contents of the publications are included except those whose titles give a clear indication of the contents. Because the majority of the references concern the Atlantic menhaden, or menhaden generally, annotations on species are given only when species other than B. tyrannus are concerned.

Acknowledgement is made of the assistance given the authors by the library staffs of the Department of the Interior, U.S. National Museum, Library of Congress, Tulane University, New Orleans Public Library, and the University of Texas, and staff members of the Marine Laboratory of the Texas Game and Fish Commission, Rockport, Tex., Gulf Fishery Investigations, Galveston, Tex., and U.S. Fishery Laboratory, Beaufort, N.C.
LIST OF ABBREVIATIONS OF PERIODICAL TITLES


Am. Nat.—American Midland Naturalist, Notre Dame.


Annu. Rept. N.Y. State Bd. Fish.—Annual Report of the New York State Board of Fisheries, Albany.

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Annu. Rept. N.Y. State Bd. Fish.—Annual Report of the New York State Board of Fisheries, Albany.


FISHERY BULLETIN OF FISH AND WILDLIFE SERVICE


Va. Fish. Lab.—Virginia Fisheries Laboratory. Center Point.


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1887. Physiology—gill structure.


1898. Occurrence and movements.


1900. Brief general account.

1901. Brief general account.


1903. General notes and activities.


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