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WLEX UNIVERSITY OF WISCONSIN-EXTENSION
GEOLOGICAL AND NATURAL HISTORY SURVEY
Meredith E. Ostrom, Director and State Geologist

BIBLIOGRAPHY AND INDEX
OF
WISCONSIN GROUND WATER
1851-1972

by
Alexander Zaporozec

In cooperation with the
Wisconsin Department of Natural Resources

University of Wisconsin - Extension

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OF WISCONSIN GROUND WATER
1851-1972

Compiled and Indexed

by

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Edited by

Christine Reinhard Hanson

1974

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INTRODUCTION

Man's effect on ground water is rapidly gaining attention in the environmental studies of today. An ever-increasing number of people are becoming aware of the need for accurate and detailed ground-water information. The quantity and quality of ground water are of vital concern to a diverse group, including the city and rural planner, the farmer, the industrialist, and the homeowner. Since ground water was first mentioned in Foster and Whitney's report in 1851, a great deal of material has been compiled. The purpose of this bibliography and index is to help those concerned with ground water locate these references.

This bibliography incorporates, and is an expansion of, Ground-water Investigation Index of Wisconsin compiled by this author and published by the University of Wisconsin Water Resources Center in 1971. The bibliography contains 521 entries covering the period 1851 through 1972. It was compiled from a review of the following source materials: reports in professional and trade journals and magazines, reports and studies in federal and state agency files, and theses and unpublished material in the University of Wisconsin-Madison libraries. The search was supplemented by questionnaires about unpublished material which were sent to schools and agencies outside of Madison. In the initial stage of the search, the following bibliographies were used:

Bibliography of North American Geology, 1732-1969 (U.S. Geol. Survey);
Abstracts of North American Geology, 1970-1971 (U.S. Geol. Survey);
Selected Water Resources Abstracts, 1968-1972 (Water Resources
Scientific Information Center).

The published bibliographies on ground water in the United States which were used in the search are listed separately on page 3.

The bibliography lists published and unpublished reports and studies committee reports, and student theses. In general, articles containing any information pertaining to Wisconsin's ground water, its occurrence, movement, relationship to the environment, quantity, quality, use, and management, were included. The publications which describe the results of the field work done in Wisconsin, but do not specify the location, were not included in the bibliography. Other exceptions are data on well drilling, findings of investigations of ground-water pollution cases, and reports of private consulting and engineering firms scattered throughout the state in local files. The data on well drilling is on file at the Wisconsin Geological and Natural History Survey, 1815 University Avenue, Madison (well logs) and at the Division of Environmental Protection, Private Water Supply Section, Pyare Square Building, 4610 University Avenue, Madison (well-drillers' reports). Unpublished reports of the Wisconsin Geological and Natural History Survey are listed separately at the end of the country index. Information about on-going projects can be obtained at the Survey.

The references are arranged alphabetically by author. Multiple author listing is provided only for those publications dealing directly with ground water within the state. The names of the junior authors are alphabetically interfiled and cross referenced to the first author (see also). An abbreviation in the upper right corner of each entry indicates where the reference is located in Madison.

The indexes are differentiated by color: subject index - yellow, county index - green, general index - pink, and chronological index - blue.

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Individuals who contributed additional information are W.E. Scott, Assistant to the Secretary of the Wisconsin Department of Natural Resources; H. E. Wirth, State Sanitary Engineer, Madison; Z.A. Gorder, Superintendant, Madison Water Utility; A.J. Karetski, Director of Regional Planning, Dept. of Local Affairs and Development, Madison; R.E. Bergstrom, Head of Ground-Water Geology, Illinois State Geological Survey; R.J. Schicht, Engineer, Illinois State Water Survey, and Prof. D. Stephenson, UW Geology Department. Special appreciation is due Drs. R.L. Hine and E.D. Cann of the Wisconsin Department of Natural Resources for editorial suggestions and the financial support. My gratitude is extended to the members of the Wisconsin Survey who contributed to the preparation of the bibliography, especially Kathie Zwettler and Agnes Akanbi for typing and Christine R. Hanson for editing.

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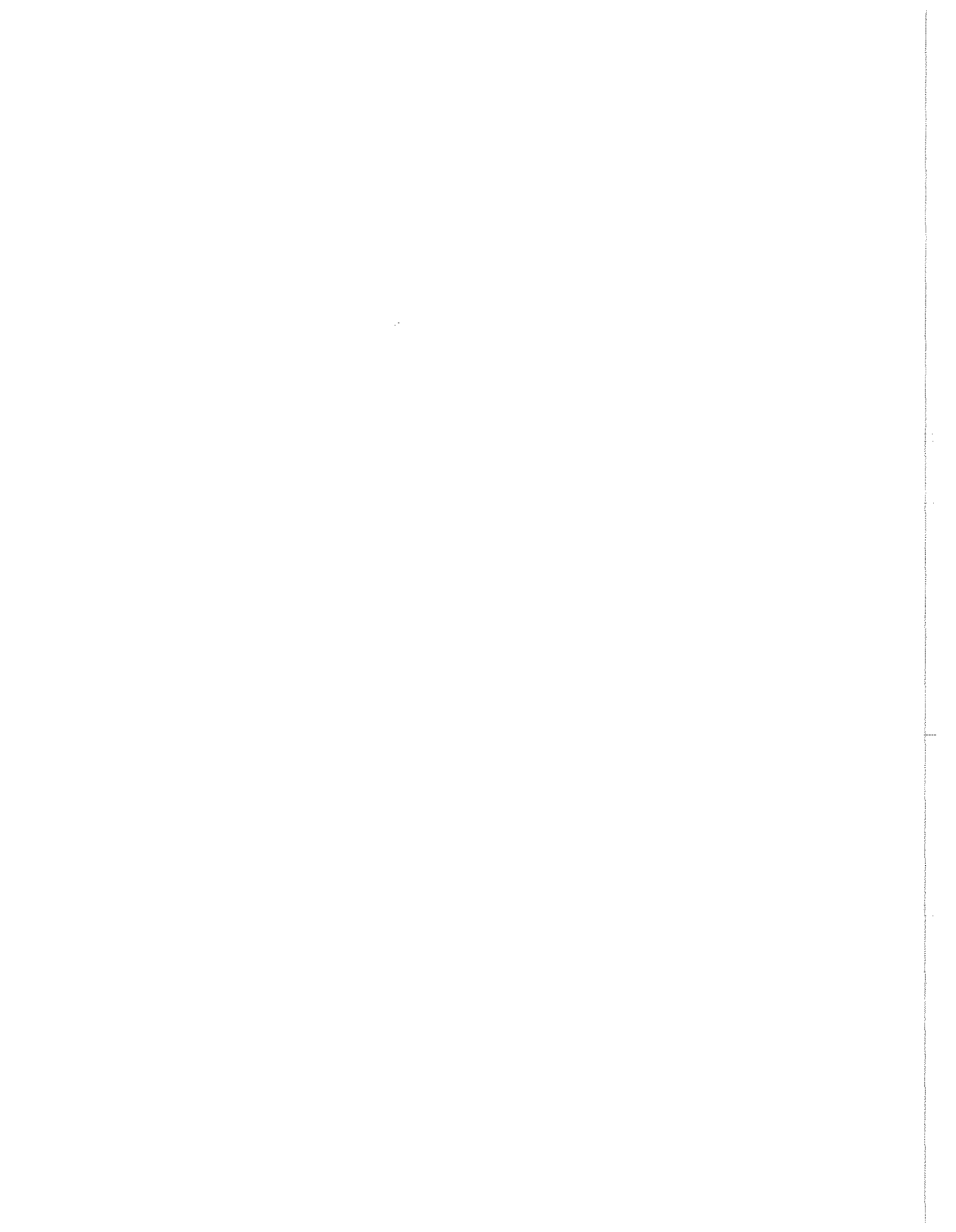
ABBREVIATIONS USED

AGU	American Geophysical Union
ASCE	American Society of Civil Engineers
AWWA	American Water Works Association
DNR	Wisconsin Department of Natural Resources
GSA	Geological Society of America
IASH	International Association of Scientific Hydrology
NEWRPC	Northeastern Wisconsin Regional Planning Commission
SEWRPC	Southeastern Wisconsin Regional Planning Commission
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UW	University of Wisconsin

LOCATION SYMBOLS

DNR	Department of Natural Resources, Pyare Square Bldg., 2nd floor
DPC	Dane Co. Reg. Planning Commission Library, Rm. 312, City-County Building
F	File of institution listed as publisher
LAD	Dept. of Local Affairs and Development Library, Hotel Loraine, 7th floor
MWU	Madison Water Utility Reference Room, Rm. 111, City-County Bldg.
SGL	Wisconsin Geological and Natural History Survey, 1815 University Avenue
SHL	Wisconsin Historical Society Library, 816 State Street
USGS	U.S. Geological Survey - library, open file, 1815 University Ave.

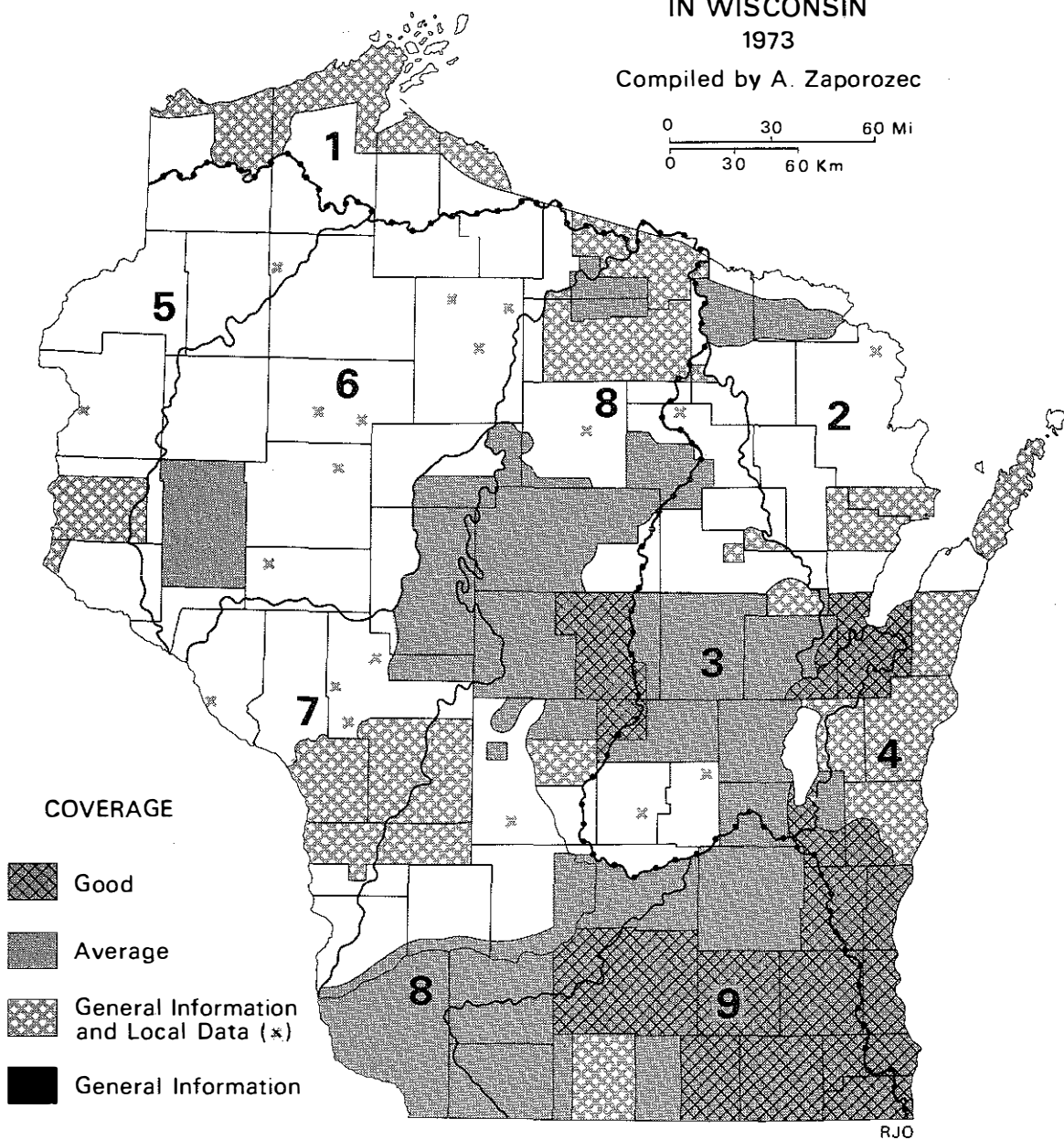
UW-AL	Univ. of Wis. - Agricultural Library, Steenbock Memorial Library
UW-BL	Univ. of Wis. - Biological Library, Rm. 358, Birge Hall
UW-EL	Univ. of Wis. - Engineering Library, Rm. 356, Mech. Eng. Bldg.
UW-GL	Univ. of Wis. - Geological Library, Rm. 250, Science Hall
UW-HL	Univ. of Wis. - Hydrologic Laboratory, Rm. 1261, Eng. Bldg.
UW-LL	Univ. of Wis. - Law Library, Law Bldg.
UW-MD	Univ. of Wis. - Medical Library, Medical Library Bldg.
UW-ML	Univ. of Wis. - Memorial Library, 728 State Street
UW-RP	Univ. of Wis. - Urban and Regional Planning Library, Rm. 109, Music Hall
WLL	Wisconsin State Legislative Reference Library, Capitol, Rm. 201 North
WRC	Univ. of Wis. - Water Resources Center, Reference Room, 1975 Elm Drive, Bldg. C



GROUND-WATER INFORMATION COVERAGE IN WISCONSIN 1973

Compiled by A. Zaporozec

0 30 60 Mi
0 30 60 Km



DRAINAGE BASINS

Subcontinental Divide 	St. Lawrence River	Upper Mississippi River
Major Drainage Basins 	1. <i>Lake Superior</i> 2. <i>Menominee-Peshtigo-Oconto River</i> 3. <i>Wolf-Fox River</i> 4. <i>Lake Michigan</i>	5. <i>St. Croix River</i> 6. <i>Chippewa River</i> 7. <i>Trempealeau-Black-La Crosse River</i> 8. <i>Wisconsin River and Platte-Galena River</i> 9. <i>Rock-Fox (Illinois)-Des Plaines River</i>

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Alberts, 1953; Berkestresser, 1964; Churchill, 1931; Cotter and others, 1969; Drescher, 1953; Durfor and Becker, 1964b; Fleischer, 1962; Koletzke and others, 1949; Miller and others, 1963; Skinner and Borman, 1970; Sundstrom and Mokee, 1938; Svanoe, 1937; U.S. Public Health Service, 1959.

Fluoridation

DeWitt and Nichols, 1937; Forrest and others, 1953; McClure, 1970; Maier, 1950; Smith, 1949; U.S. Public Health Service, 1959.

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Byrne, 1970; Columbia Co., 1970; Dane Co. Cit. Com., 1961; Gonthier, 1970; Hutchinson, 1969; Jordan and others, 1970; Lee and Veith, 1971; Leith, 1927; Lohr and Love, 1954; Muegge, 1961; NEWRPC, 1969a, b, 1970; Olcott, 1969b, 1970; SEWRPC, 1963, 1966a; Thwaites, 1956; Weidman and Schultz, 1915; Wis. Dept. Res. Dev., 1964, 1966; and all county studies.

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Synthetic detergents

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Temperature

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Berkstresser, 1963; Thwaites, 1935, 1956; Von Eiff, 1938.

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potential

Gonthier, 1970; Knowles, 1964; Knowles and others, 1964; Olcott, 1966; Weeks and others, 1965.

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DeWitt and Nichols, 1937; Forrest and others, 1953; McClure, 1970; McNeil, 1957; Maier, 1950; Porges, 1957; Smith, 1949; Stravinski, 1952.

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