

SELECTED LITERATURE ON WATER-RESOURCES INVESTIGATIONS IN NEW JERSEY  
BY THE U.S. GEOLOGICAL SURVEY, THROUGH 1986

Compiled by F.L. Schaefer

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DEPARTMENT OF THE INTERIOR  
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U.S. GEOLOGICAL SURVEY  
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ABSTRACT

Because of the importance and complexity of the water resources of New Jersey today, there is a need for a current bibliography to serve as a basis for future water-resources studies. This report lists about 400 book reports, map reports, and articles that deal with the water resources of New Jersey published through 1986. The publications are grouped under three major headings: (1) publications of the U.S. Geological Survey, (2) publications of State agencies prepared by, or in cooperation with, the U.S. Geological Survey, and (3) other publications, such as technical journals prepared by, or co-authored by, U.S. Geological Survey personnel. Most of the publications are available for inspection at the West Trenton office of the U.S. Geological Survey and at large public and university libraries. Ordering information is given for those publications that are for sale.

INTRODUCTION

The number of publications pertaining to water resources in New Jersey is large. Therefore, the publications listed below were selected to show the types of information available to those interested in or in need of water facts. This report lists about 400 book reports, map reports, and articles that deal with the water resources of New Jersey published through 1986. Many of these publications are available for inspection at the West Trenton office of the U.S. Geological Survey and at large public and university libraries. The publications are grouped as follows: (1) publications of the U.S. Geological Survey, (2) publications of State agencies prepared by or in cooperation with the U.S. Geological Survey, and (3) other publications, such as technical journals, prepared by or co-authored by U.S. Geological Survey personnel. A map of New Jersey counties (fig. 1) is shown below for the use of readers who are not familiar with the State.

PUBLICATIONS OF THE U.S. GEOLOGICAL SURVEY

General information.--The U.S. Geological Survey announces all its publications in a monthly report "New Publications of the U.S. Geological Survey." Subscription to this report is free, upon request to the U.S. Geological Survey, 582 National Center, Reston, VA 22092. All publications in this report are for sale unless specifically stated otherwise. Prices, which are subject to change, are not included here. Prepayment is required and information on price and availability should be obtained from the listed sales offices before placing an order.

The "U.S. Geological Survey Yearbook" provides a comprehensive description of the Federal Government's largest earth-science agency. Copies of this report may be purchased at the address where professional papers are sold (see below).

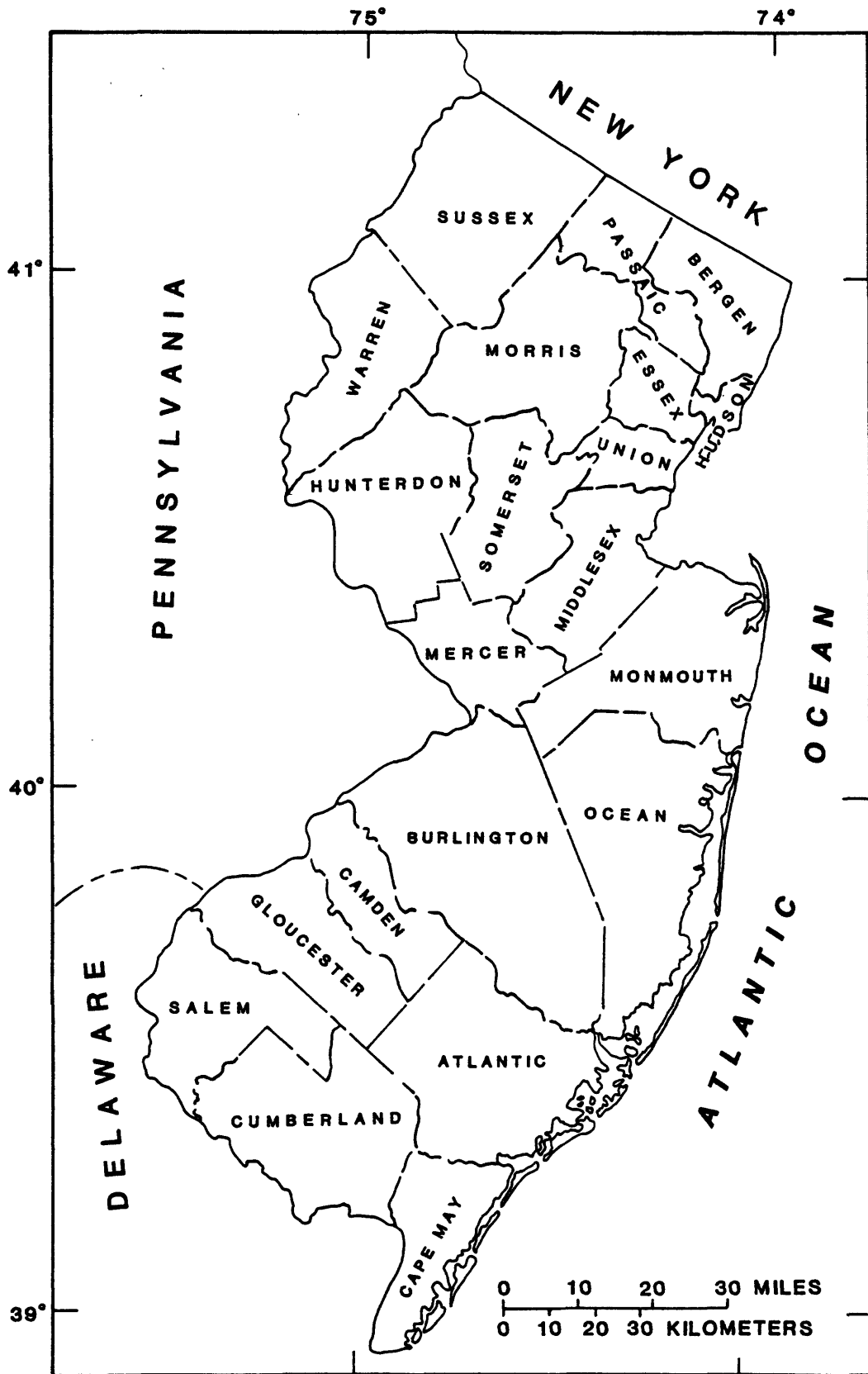


Figure 1.--Counties of New Jersey.

Summaries of research in progress and results of completed investigations are published each fiscal year in the professional paper series "U.S. Geological Survey Research" (see under heading Professional Papers).

The National Water Summary Program was established in 1981 to synthesize information about the availability, quantity, quality, and the use of water resources and to organize it in ways which portray the condition of the Nation's water resources to national, state, and local officials and to the general public. The information is being prepared on a continuing basis from results of the Geological Survey's water-resources investigations and data-collection programs. "National Water Summary" reports have been published annually since 1984 (see Water-Supply Papers 2250, 2275, and 2300).

A pamphlet entitled "List of Geologic and Water-Supply Reports and Maps for Pennsylvania and New Jersey", which includes reports on the geology of Pennsylvania and New Jersey and other water-resources reports, is available free upon request to the U.S. Geological Survey, 419 National Center, Reston, VA 22092.

Water-resources information.--A monthly summary of the national water situation is presented in the "National Water Conditions," which is available free on request to the U.S. Geological Survey, 419 National Center, Reston, VA 22092.

Records of streamflow, ground-water levels, and quality of water were published for many years as Geological Survey Water-Supply Papers as explained below.

Streamflow records.--Records of daily flows of streams prior to 1971 were published in the Water-Supply Paper series "Surface-Water Supply of the United States," which was released in numbered parts as determined by natural drainage basins. Until 1961, this was an annual report series; monthly and yearly summaries of these data were compiled in two reports: "Compilation of Records of Surface Waters of the United States through September 1950 - Part 1B" and "Compilation of Records of Surface Waters of the United States, October 1950 to September 1960 - Part 1B." For the period 1961-1970, 5-year compilations were published. Data for New Jersey are published in part 1, volume 2. Daily streamflow records were published on a State-boundary basis during the period 1961-74.

Ground-water records.--Ground-water levels in observation wells, prior to 1975, were reported by geographic areas in a 5-year water-supply paper series. Data for New Jersey are in "Ground-Water Levels in the United States, Northeastern States."

Quality-of-water records.--Data on quality of surface water prior to 1971 were published annually in the water-supply paper series "Quality of Surface Waters of the United States," which also was released in numbered parts as determined by natural drainage basins. Data for New Jersey are in Part 1. For water years 1964-74, these data also were released annually on a State-boundary basis.

Beginning with the 1975 water year, these series were replaced by a new publication series "U.S. Geological Survey Water-Data Reports." This series combines, under one cover, streamflow data, water-quality data for surface and ground water, and ground-water-level data for each State. For New Jersey the title is "Water Resources Data--New Jersey - Water year (date) - volume 1 or 2." (See list: "Water-Data Reports.")

Flood information.--Reports documenting major floods in New Jersey have been published as U.S. Geological Survey water-supply papers, hydrologic atlases, water-resources investigations reports, open-file reports, and State special reports and circulars. Methods for estimating the magnitude and frequency of floods for selected streams are given in New Jersey Special Report 38 (see page 33). The U.S. Geological Survey also outlines flood-prone areas on topographic maps as part of a nationwide Federal program for managing flood losses. Urban areas that have flood problems have been extracted from these topographic maps and published as pamphlets. In New Jersey, 172 topographic maps covering the entire State and 6 urban-area pamphlets have been completed. (See list: "Flood-prone-area maps in New Jersey.") Information on these maps is available from the District Chief, Water Resources Division at the address shown in the front of this report.

#### Professional Papers

Professional papers are sold by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Building 41, Box 25425, Denver, CO 80225 (Telephone [303] 236-7476). Reports that are no longer available are indicated as "(Out of stock.)"

- P 180. The minerals of Franklin and Sterling Hill, Sussex County, N.J., by Charles Palache. 1935. 135 p.
- P 264-B. Additions to the fauna of the Raritan Formation (Cenomanian) of New Jersey, by T.W. Stephenson. 1954. p. 25-43.
- P 287. Geology and magnetite deposits of Dover district, Morris County, New Jersey, by P.K. Sims with a description of the geologic section at Hibernia mine, by A.F. Buddington. 1958. 162 p.
- P 381. Water resources of the Delaware River basin, by G.G. Parker, A.G. Hely, W.B. Keighton, and F.H. Olmstead and others. 1964. 200 p.
- P 400-B. Short papers in the geological sciences, Articles 1-232, by U.S. Geological Survey: ART. 28, Concentrations of "ilmenite" in the Miocene and post-Miocene formations near Trenton, N.J., by J.P. Owens, J.P. Minard, D.R. Wiesnet, and F.J. Markewicz, p. B57; ART. 80, Taconic and post-Taconic folds in eastern Pennsylvania and western New Jersey, by A.A. Drake, Jr., R.E. Davis, and D.C. Alvord, p. B180; ART. 82, Differential subsidence of the southern part of the New Jersey Coastal Plain since early Late Cretaceous time, by J.P. Minard and J.P. Owens, p. B184-B186, ART. 196, Some characteristics

of glauconite from the Coastal Plain formations of New Jersey, by J.P. Owens and J.P. Minard, p. B430. 1960. (Out of stock.)

- P 411-D. Review of some elements of soil-moisture theory, by Irwin Remson and J.R. Randolph. 1962. 38 p.
- P 417-B. Some relations between streamflow characteristics and the environment in the Delaware River region, by A.G. Hely and F.H. Olmsted. 1963. p.B1-B5.
- P 424-C. Short papers in the geologic and hydrologic sciences, Articles 147-292, by U.S. Geological Survey: ART. 172, End moraines on Kittatinny Mountain, Sussex County, New Jersey, by J.P. Minard, p. C61-C64; ART. 173, Redefinition of the Mount Laurel Sand (Upper Cretaceous) in New Jersey, by J.P. Minard, p. C64-C67; ART. 263, Distribution of clay-sized sediments in the Coastal Plain formations near Trenton, New Jersey, by J.P. Owens, J.P. Minard, and P.D. Blackmon, p. C317-C319. 1961. (Out of stock.)
- P 424-D. Short papers in the geologic and hydrologic sciences, Articles 293-435, by U.S. Geological Survey: ART. 313, Natural movement of ground water at a site on the Mullica River in the Wharton Tract, southern New Jersey, by S.M. Lang. 1961. p. D52-D54. (Out of stock.)
- P 450-B. Short papers in geology, hydrology, and topography, Articles 1-59, by U.S. Geological Survey: ART. 21, Marginal sea of middle Eocene age in New Jersey, by S.M. Herrick, p. B56-B58; ART. 36, Movement of ground water beneath the bed of the Mullica River in the Wharton Tract, southern New Jersey, by S.M. Lang and E.C. Rhodehamel, p. B90-B92; ART. 51, Cation hydrochemical facies of ground water in the Englishtown Formation, New Jersey, by P.R. Seaber, p. B124-B126. 1962. (Out of stock.)
- P 450-D. Short papers in geology, hydrology, and topography, Articles 120-179, by U.S. Geological Survey: ART. 168, Winter ground-water temperatures along the Mullica River, Wharton Tract, New Jersey, by E.C. Rhodehamel and S.M. Lang. 1962. p. D165-D168. (Out of stock.)
- P 475-B. Short papers in geology and hydrology, Articles 1-59, by U.S. Geological Survey: ART. 26, Stratigraphic section at Island Beach State Park, New Jersey, by P.R. Seaber and John Vecchioli. 1963. p. B102-B105.
- P 475-D. Short papers in geology and hydrology, Articles 122-172, by U.S. Geological Survey: ART. 167, Height-frequency relations for New Jersey floods, by D.M. Thomas. 1964. p. D202-D203.



- P 498-A. Hydrochemical facies and ground-water flow patterns in northern part of Atlantic Coastal Plain, by William Back. 1966. 42 p.
- P 498-B. Variations in chemical character of water in the Englishtown Formation, New Jersey, by P.R. Seaber. 1965. 35 p.
- P 501-B. Foraminifera from the *Exogyra ponderosa* zone of the Marshalltown Formation at Auburn, New Jersey, by J.F. Mello, J.P. Minard, and J.P. Owens, p. B61-B63; Cesium and strontium sorption studies on glauconite, by M.M. Schnepfe, Irving May, and C.R. Naeser, p. B95-B99, in Geological Survey Research 1964, Chap. B, by U.S. Geological Survey. 1964.
- P 501-C. Petrography of the basement gneiss beneath the Coastal Plain sequence, Island Beach State Park, New Jersey, by D.L. Southwick, in Geological Survey Research 1964, Chap. C., by U.S. Geological Survey. 1964. p. C55-C60. (Out of stock.)
- P 525-B. Effect of Great Swamp, New Jersey, on streamflow during base-flow periods, by E.G. Miller, in Geological Survey Research 1965, Chap. B, by U.S. Geological Survey. 1965. p. B177-B179.
- P 525-D. Changes in quality of water in the Passaic River at Little Falls, New Jersey, as shown by long-term data, by P.W. Anderson and S.D. Faust, in Geological Survey Research 1965, Chap. D, by U.S. Geological Survey. 1965. p. D214-D218. (Out of stock.)
- P 550-B. Domes in the Atlantic Coastal Plain east of Trenton, NJ., by J.P. Minard and J.P. Owens, p. B16-B19; Sandblasted blocks on a hill in the Coastal Plain of New Jersey, by J.P. Minard, p. B87-B90; Time-of-travel measurements on the Passaic and Pompton Rivers, New Jersey, by G.M. Horwitz and P.W. Anderson, p. B199-B203, in Geological Survey Research 1966, Chap. B, by U.S. Geological Survey. 1966. (Out of stock.)
- P 550-C. Relationships of fresh and salty ground water in the northern Atlantic Coastal Plain of the United States, by J.E. Upson, in Geological Survey Research 1966, Chap. C, by U.S. Geological Survey. 1966. p. C235-C243. (Out of stock.)
- P 563-C. Distribution of roots and rhizomes in different soil types in the Pine Barrens of New Jersey, by W.A. Laycock. 1967. 29 p.
- P 575-B. Use of digital recorders with pond gages for measuring storm runoff, by J.E. McCall, in Geological Survey Research

- 1967, Chap. B, by U.S. Geological Survey. 1967. p. B254-B257. (Out of stock.)
- P 575-C. The construction and use of flow-volume curves, by E.G. Miller, in Geological Survey Research 1967, Chap. C, by U.S. Geological Survey. 1967. p. C216-C218. (Out of stock.)
- P 575-D. High-resolution subbottom seismic profiles of the Delaware estuary and Bay mouth, by D.W. Moody and E.D. Van Reenan, in Geological Survey Research 1967, Chap. D, by U.S. Geological Survey. 1967. p. D247-D252. (Out of stock.)
- P 600-B. Reservoir effect on downstream water temperatures in the Upper Delaware River basin, by O.O. Williams in Geological Survey Research 1968, Chap. B, by U.S. Geological Survey. 1968. p. B195-B199. (Out of stock.)
- P 600-D. Computation of reaeration coefficients for a river system in northeastern New Jersey, by T.J. Buchanan in Geological Survey Research 1968, Chap. D, by U.S. Geological Survey. 1968. p. D42-D44. (Out of stock.)
- P 638. Geology and magnetite deposits of the Franklin quadrangle and part of the Hamburg quadrangle, New Jersey, by D.R. Baker and A.F. Buddington. 1970. 73 p.
- P 650-B. Occurrence and movement of ground water in the Brunswick Shale at a site near Trenton, New Jersey, by John Vecchioli, L.D. Carswell, and H.F. Kasabach, p. B154-B157; The Gibbs free energies of substances in the system Fe-O<sub>2</sub>-H<sub>2</sub>O-CO<sub>2</sub> at 25°C, by Donald Langmuir, p. B180-B184, in Geological Survey Research 1969, Chap. B, by U.S. Geological Survey. 1969.
- P 650-C. Geochemistry of iron in a coastal-plain ground water of the Camden, New Jersey, area, by Donald Langmuir, in Geological Survey Research 1969, Chap. C, by U.S. Geological Survey. 1969. p. C224-C235.
- P 659. Geologic framework and petroleum potential of the Atlantic Coastal Plain and Continental Shelf, by J.C. Maher. 1971. 98 p.
- P 674. Stratigraphy of the outcropping post-Magothy Upper Cretaceous formations in southern New Jersey and northern Delmarva Peninsula, Delaware and Maryland, by J.P. Owens, J.P. Minard, N.F. Sohl, and J.F. Mello. 1970. 60 p.
- P 708. Ground-water hydraulics, by S.W. Lohman. 1970. 70 p.

- P 750-B. Stratigraphic interpretations of some Cretaceous microfossil floras of the Middle Atlantic States, by J.A. Wolfe and H.M. Pakiser, in Geological Survey Research, 1971, Chap. B, by U.S. Geological Survey. 1971. p. B35-B47.
- P 796. Structural and stratigraphic framework and spatial distribution of the permeability of the Atlantic Coastal Plain, North Carolina to New York, by P.M Brown, J.A. Miller, and F.M. Swain. 1972. 79 p.
- P 800-B. Population density as an indirect indicator of urban and suburban land-surface modifications, by S.J Stankowski, in Geological Survey Research 1972, Chap. B, by U.S. Geological Survey. 1972. p. B219-B224.
- P 800-D. Late Pleistocene glaciation and pollen stratigraphy in northwestern New Jersey, by L.A. Sirkin and J.P. Minard, in Geological Survey Research 1972, Chap. D, by U.S. Geological Survey. 1972. p. D51-D56.
- P 813-I. Summary appraisals of the Nation's ground-water resources-- Mid-Atlantic region, by Allen Sinnott and E.M. Cushing. 1978. 32 p.
- P 845. Ammonites from the Navesink Formation at Atlantic Highlands, New Jersey, by W.A. Cobban. 1974. 21 p.
- P 864-A. A review and interpretation of the geologic setting of the Watchung Basalt flows, New Jersey, by G.T. Faust. 1975. 42 p.
- P 864-B. Joint systems in the Watchung Basalt flows, New Jersey, by G.T. Faust. 1978. 46 p.
- P 881. Geologic evaluation of waste-storage potential in selected segments of the Mesozoic aquifer system below the zone of fresh water, Atlantic Coastal Plain, North Carolina through New Jersey, by P.M. Brown and M.S. Reid. 1976. 47 p.
- P 898. Slump blocks in the Atlantic Highlands of New Jersey, by J.P. Minard. 1974. 24 p.
- P 977. Stratigraphic distribution of some pollen types from the Campanian and lower Maestrichtian rocks (upper Cretaceous) of the Middle Atlantic States, by J.A. Wolfe. 1976. 18 p.
- P 1023. The Lyon Station-Paulins Kill nappe--The frontal structure of the Musconetcong nappe system in eastern Pennsylvania and New Jersey, by A.A. Drake, Jr. 1978. 20 p.
- P 1067-D. Upper Cenozoic sediments of the lower Delaware Valley and the northern Delmarva Peninsula, New Jersey,

Pennsylvania, Delaware and Maryland, by J.P. Owens and J.P. Minard. 1979. 47 p.

P 1130. Hydrologic and human aspects of the 1976-77 drought, by H.F. Matthai. 1979. 84 p.

P 1200-NJ. The national gazetteer of the United States of America - New Jersey 1983, by U.S. Geological Survey. 1983. 225 p.

#### Water-Supply Papers

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- W 72. Sewage pollution in the metropolitan area near New York City and its effect on inland water resources, by M.O. Leighton. 1902. 75 p.
- W 88. The Passaic flood of 1902, by G.B. Hollister and M.O. Leighton. 1903. 56 p.
- W 92. The Passaic flood of 1903, by M.O. Leighton. 1904. 48 p.
- W 106. Water resources of the Philadelphia district, by Florence Bascom. 1904. 75 p.
- W 110. Contributions to the hydrology of eastern United States, 1904. Contains: Water resources of the central and southwestern Highlands of New Jersey, by Lawrence LaForge. 1905. p. 141-155. (Out of stock.)
- W 114. Underground waters of eastern United States, 1905. Contains: Occurrence of underground waters in New Jersey, by G.N. Knapp. 1905. p. 93-103. (Out of stock.)
- W 162. Destructive floods in the United States in 1905, by E.C. Murphy. 1906. 105 p. (Out of stock.)
- W 258. Underground-water papers, 1910. Contains: Saline artesian waters of the Atlantic Coastal Plain, by Samuel Sanford. 1911. p. 75-86.
- W 596-E. Quality of the surface waters of New Jersey, by W.D. Collins and C.S. Howard. 1928. p. 89-119.
- W 799. The floods of March 1936--Part 2, Hudson River to Susquehanna River region, by U.S. Geological Survey. 1937. 380 p.
- W 867. Hurricane floods of September 1938, by U.S. Geological Survey. 1940. 562 p.

- W 966. Minor floods of 1938, in the North Atlantic states, by U.S. Geological Survey. 1947. 426 p.
- W 1262. Chemical characteristics of Delaware River water, Trenton, New Jersey, to Marcus Hook, Pennsylvania, by C.N. Durfor and W.B. Keighton. 1954. 173 p.
- W 1420. Floods of August-October 1955, New England to North Carolina, by D.B. Bogart. 1960. 854 p.
- W 1532-H. Sediment transport by streams draining into the Delaware estuary, by L.J. Mansue and A.B. Commings. 1974. 18 p.
- W 1535-P. Chemical composition of atmospheric precipitation in the northeastern United States, by F.J. Pearson, Jr., and D.W. Fisher. 1971. 23 p.
- W 1536-B. Water levels near a well discharging from an unconfined aquifer, by Irwin Remson, S.S. McNeary, and J.R. Randolph. 1961. p. 27-39.
- W 1541-A. General introduction of hydrologic definitions, by W.B. Langbein and K.T. Iseri. 1960. 29 p.
- W 1586-B. Salinity of the Delaware estuary, by Bernard Cohen and L.T. McCarthy, Jr. 1962. 47 p.
- W 1586-C. Observations of tidal flow in the Delaware River, by E.G. Miller. 1962. 26 p. (Out of stock.)
- W 1586-E. Record low tide of December 31, 1962, on the Delaware River, by A.C. Lendo. 1966. 20 p.
- W 1586-G. Fresh-water discharge-salinity relations in the tidal Delaware River, by W.B. Keighton. 1966. 16 p.
- W 1669-N. Water-supply characteristics of streams in the Delaware River basin and southern New Jersey, by C.H. Hardison and R.O.R. Martin. 1963. 45 p.
- W 1779-X. Quality of Delaware River water at Trenton, New Jersey, by L.T. McCarthy, Jr., and W.B. Keighton. 1964. 51 p.
- W 1790-B. Summary of floods in the United States during 1960, by J.O. Rostvedt. 1965. 147 p.
- W 1798-L. Effects of land use and retention practices on sediment yields in the Stony Brook basin, New Jersey, by L.J. Mansue and P.W. Anderson. 1974. 33 p.
- W 1800. The role of ground water in the national water situation, by C.L. McGuinness. 1963. 121 p.

- W 1809-O. Delaware River water quality, Bristol to Marcus Hook, Pennsylvania, August 1949 to December 1963, by W.B. Keighton. 1965. 57 p.
- W 1812. Public water supplies of the 100 largest cities in the United States, 1962, by C.N. Durfor and Edith Becker. 1964. 364 p. (Out of stock.)
- W 1819-G. Water-quality characteristics of New Jersey streams, by P.W. Anderson and J.R. George. 1966. 48 p.
- W 1838. Reservoirs in the United States, by R.O.R. Martin and R.L. Hanson. 1966. 115 p.
- W 1899-I. Streamflow from the United States into the Atlantic Ocean during 1931-60, by C.D. Bue. 1970. 36 p.
- W 1970-B. Summary of floods in the United States during 1968, by J.O. Rostvedt and others. 1972. 73 p.
- W 1974. Water resources of the New Jersey part of the Ramapo River basin, by John Vecchioli and E.G. Miller. 1973. 77 p.
- W 1988. Definitions of selected ground-water terms--Revisions and conceptual refinements, by S.W. Lohman and others. 1972. 21 p.
- W 1999-K. Analysis of stream-temperature variations in the upper Delaware River basin, New York, by O.O. Williams. 1971. 45 p.
- W 2020. Subsurface waste disposal by means of wells--A selected annotated bibliography, by D.R. Rima, E.B. Chase, and B.M. Myers. 1971. 305 p.
- W 2021. Evaluation of yields of wells in consolidated rocks, Virginia to Maine, by D.J. Cederstrom. 1972. 38 p.
- W 2026. Characteristics of water quality and streamflow, Passaic River basin above Little Falls, New Jersey, by P.W. Anderson and S.D. Faust. 1973. 80 p.
- W 2034. Cost analysis of ground-water supplies in the North Atlantic region, 1970, by D.J. Cederstrom. 1973. 48 p.
- W 2102. Surface-water supply of the United States, 1966-70, Part 1. North Atlantic slope basins, volume 2. Basins from New York to Delaware, by U.S. Geological Survey. 1976. 985 p.
- W 2151. Quality of surface waters of the United States, 1970, Part 1. North Atlantic slope basins, by U.S. Geological Survey. 1975. 674 p.

- W 2164. Ground-water levels in the United States, 1973-74, North-eastern states, by U.S. Geological Survey. 1977. 126 p.
- W 2175. Measurement and computation of streamflow; volume 1. Measurement of stage and discharge, 284 p., volume 2. Computation of discharge, 631 p., by S.E. Rantz and others. 1982.
- W 2184. Saltwater intrusion into the Old Bridge aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey, by F.L. Schaefer and R.L. Walker, 1981. 21 p.
- W 2220. Basic ground-water hydrology, by R.C. Heath. 1983. 84 p.
- W 2250. National water summary 1983; hydrologic events and issues, by U.S. Geological Survey. 1984. 243 p.
- W 2254. Study and interpretation of the chemical characteristics of natural water (third edition), by J.D. Hem. 1985. 263 p.
- W 2255. Effect of eustatic sea-level changes on saltwater-freshwater relations in the northern Atlantic Coastal Plain, by Harold Meisler, P.P. Leahy, and L.L. Knobel. 1984. 28 p.
- W 2275. National water summary 1984; hydrologic events, selected water-quality trends, and ground-water resources, by U.S. Geological Survey. 1985. 467 p.
- W 2300. National water summary 1985; hydrologic events and surface-water resources, by U.S. Geological Survey. 1986. 506 p.

#### Circulars

Single copies of circulars are available free from the U.S. Geological Survey, Books and Open-file Reports Section, Federal Center, Building 41, Box 25425, Denver, CO 80225 (Telephone [303] 236-7476).

- C 190. Index of water-resources records in the Delaware River basin to September 30, 1951, by U.S. Geological Survey. 1952. 19 p.
- C 377. Floods of August 1955 in the northeastern states, by U.S. Geological Survey. 1956. 76 p. (Out of stock.)
- C 556. Estimated use of water in the United States, 1965, by C.R. Murray. 1968. 53 p.
- C 651. Index of surface-water records to September 30, 1970--Part 1, North Atlantic slope basins, by U.S. Geological Survey. 1971. 89 p.
- C 676. Estimated use of water in the United States in 1970, by C.R. Murray and E.B. Reeves. 1972. 37 p.

- C 745. Water consumption by nuclear powerplants and some hydrological implications, by E.V. Giusti and E.L. Meyer. 1977. 14 p.
- C 750. Geological studies on the COST. No. B-2 well, U.S. Mid-Atlantic Outer Continental Shelf area, edited by P.A. Scholle. 1977. 71 p.
- C 753. Short papers of the U.S. Geological Survey Uranium-Thorium Symposium, 1977, edited by J.A. Campbell. 1977. 75 p.
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- \*OF 86-58. Ground-water-quality data for Picatinny Arsenal, New Jersey, 1958-85, by B.P. Sargent, J.W. Green, P.T. Harte, and E.F. Vowinkel. 1986. 66 p.
- \*OF 86-316. Description and results of test-drilling program at Picatinny Arsenal, New Jersey, 1982-84, by P.T. Harte, B.P. Sargent, and E.F. Vowinkel. 1986. 54 p.
- \*OF 86-423W. Flood of April 5-7, 1984 in northeastern New Jersey, by M.O. Philips and R.D. Schopp. 1986. 112 p.

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- U17. Mansue, L.J., 1972, Suspended-sediment yields of New Jersey Coastal Plain streams draining into the Delaware estuary. 26 p.
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- U24. Remson, Irwin, 1951, Results of pumping tests at Seabrook Farms, New Jersey, January 16-19, 1951. 29 p.
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- U27. Stankowski, S.J., and Velnich, A.J., 1974, A summary of peak stages and discharges for the flood of August 1973, in New Jersey. 13 p.
- U28. Subitzky, Seymour, Bettendorf, J.A., and Anderson, P.W., 1964, Water-resources investigations in the Delaware River basin. 1 sheet.
- U29. Thomas, D.M., 1960, Extent and frequency of inundation of the flood plain in the vicinity of Somerville and Manville, New Jersey. 25 p.
- U30. \_\_\_\_\_, 1961, Extent and frequency of inundation of flood plain in vicinity of Bound Brook in Somerset and Middlesex Counties, New Jersey. 21 p.
- U31. \_\_\_\_\_, 1962, Extent and frequency of inundation of Millstone River flood plain in Somerset County, New Jersey. 19 p.
- U32. Tice, R.H., 1958, Delaware River basin flood frequency. 10 p.
- U33. \_\_\_\_\_, 1959, Extent and frequency of inundation of the flood plain near Raritan, New Jersey. 14 p.
- U34. Vecchioli, John, 1963, Results of a pumping test conducted in Caldwell Township, Essex County, New Jersey. 6 p.
- U35. Zogorski, J.S., Anderson, P.W., and Williams, O.O., 1973, Velocity and depth measurements for use in the determination of reaeration coefficients. 31 p.

Flood-Prone-Area Maps in New Jersey

Flood-prone-area maps in New Jersey are available free in limited quantities from the office of the District Chief, Water Resources Division, West Trenton, N.J.

<u>Quadrangle</u>	<u>County Code</u>	<u>Year Completed</u>	<u>Quadrangle</u>	<u>County Code</u>	<u>Year Completed</u>
Adelphia	25,29	1970	Egg Harbor City	1	1972
Allentown	5,21,25	1970	Elizabeth	3,13,17,39	1973
Alloway	11,33	1973	Elmer	11,33	1973
Arthur Kill (N.Y.)	23,39	1973	Farmingdale	25,29	1970
Asbury Park	25	1972	Five Points	1,11	1973
Atlantic City	1	1972	Flatbrookville	37,41	1976
Atsion	1,5	R 1976	Flemington	19,35	1973
Avalon	9	1973	Forked River	29	1973
Bangor (Pa.)	41	1973	Fortescue	11	1973
Barnegat Light	29	1973	Frankford (Pa.)	5	1973
Beach Haven	29	1973	Franklin	27,37	1976
Belvidere	41	R 1976	Freehold	23,25	1972
Ben Davis Point	11	1973	Frenchtown	19	1973
Bernardsville	27,35	1973	Gladstone	19,27,35	1973
Beverly	5	1973	Green Bank	1,5	1972
Blairstown	41	1976	Greenwood Lake(N.Y.)	31	1972
Bloomsburg	19,41	1976	Hackensack	3,31	R 1976
Bombay Hook (Del.)	11	1973	Hackettstown	19,27,41	1976
Boonton	27	1976	Hamburg	37	1976
Bound Brook	23,35	1972	Hammonton	1,5,7	1972
Branchville	37	1973	Heislerville	9,11	1973
Bridgeport	15	1973	High Bridge	19,41	1976
Bridgeton	11,33	1973	Hightstown	21,23	1972
Brigantine Inlet	1	1973	Hopewell	19,21,35	1972
Bristol (Pa.)	5	1972	Indian Mills	5	1973
Brookville	29	1973	Jamesburg	21,23,25	1972
Browns Mills	5,29	1972	Jenkins	5	1973
Buena	1,11,15	1973	Jersey City	3,13,17	1976
Bushkill (Pa.)	41	1973	Keswick Grove	29	1973
Caldwell	13,27	R 1976	Keyport	23,25	1972
Califon	19,27	1973	Lakehurst	29	1970
Camden	7	1973	Lake Maskenozha(Pa.)	37	1973
Canton	11,33	1973	Lakewood	25,29	1970
Cape May	9	1973	Lambertville	19,21	1973
Cassville	25,29	1973	Long Beach NE	29	1973
Cedarville	11	1973	Long Branch	25	1972
Central Park (N.Y.)	3,17	1973	Lumberville (Pa.)	19	1972
Chatham	27,35,39	1972	Marcus Hook (Pa.)	15,33	1973
Chatsworth	5	1973	Marlboro	25	1972
Chester	27	1973	Marmora	1,9	1973
Clementon	5,7	1970	Mays Landing	1	1972
Columbus	5	1973	Medford Lakes	5,7	1973
Culvers Gap	37	1973	Mendham	27,35	R 1976
Delaware City (Del.)	33	1973	Milford (Pa.)	37	1973
Dividing Creek	11	1973			
Dorothy	1,11	1973			
Dover	27,37	1976			
Easton	19,41	R 1976			



Flood-Prone-Area Maps in New Jersey--Continued

<u>Quadrangle</u>	<u>County Code</u>	<u>Year Completed</u>	<u>Quadrangle</u>	<u>County Code</u>	<u>Year Completed</u>
Millville	11,33	1970	Rio Grande	9	1973
Monmouth Junction	23,35	R 1974	Rocky Hill	21,35	1973
Moorestown	5,7	1973	Roosevelt	21,23,	1972
Morristown	27	1969		25,29	
Mount Holly	5	1972	Roselle	13,39	1970
			Runnemedede	7,15	1972
New Brunswick	23,35	1972			
New Egypt	5,25,29	1973	Salem	33	1973
Newfield	11,15,33	1970	Sandy Hook	25	1972
Newfoundland	27,31,37	1976	Sea Isle City	9	1973
New Gretna	1,5,29	1973	Seaside Park	29	1972
Newton East	37	1976	Shiloh	11,33	1973
Newtonville	1,7	1970	Ship Bottom	29	1973
Newton West	37,41	1976	Sloatsburg (N.Y.)	3,31	1972
Nyack (N.Y.)	3	1969	South Amboy	23,25	1972
			Stanhope	27,37	1976
Ocean City	1,9	1972	Stockton	19	1972
Oceanville	1	1972	Stone Harbor	9	1973
Orange	3,13,31	1972	Stroudsburg (Pa.)	41	1976
Oswego Lake	5,29	1973			
			Taylor's Bridge (Del.)	33	1973
Park Ridge (N.Y.)	3	1973	Toms River	29	1970
Paterson	3,13,31	1972	Tranquility	27,37,41	1976
Pemberton	5	1972	Trenton East	5,21	1972
Pennington	19,21	1972	Trenton West	5,21	1972
Penns Grove	15,33	1973	Tuckahoe	1,9,11	1973
Perth Amboy	23,39	1970	Tuckerton	29	1973
Philadelphia (Pa.)	7,15	1973			
Pine Island (N.Y.)	37	1973	Unionville (N.Y.)	37	1976
Pitman East	7,15	1972			
Pitman West	15,33	R 1976	Wanaque	3,27,31	1976
Pittstown	19	1973	Washington	19,27,41	1976
Plainfield	23,35,39	1972	Wawayanda	31,37	1972
Pleasantville	1	1972	Weehawken	3,17	1972
Point Pleasant	25,29	1972	West Creek	29	1973
Pompton Plains	13,27,31	1976	Whiting	5,29	1973
Port Elizabeth	9,11	1973	Wildwood	9	1973
Port Jervis South	37	1973	Williamstown	7,15	1970
Portland	41	R 1976	Wilmington South	33	1973
Port Norris	11	1973	Woodbine	9	1973
Princeton	21,23	1970	Woodbury	7,15	1973
			Woodmansie	5,29	1973
Ramsey	3,31	1976	Woodstown	15,33	R 1976
Raritan	19,35	1973			
Riegelsville	19,41	1976	Yonkers (N.Y.)	3	1973

R - Revised

N.J. County Codes

1 Atlantic	13 Essex	23 Middlesex	33 Salem
3 Bergen	15 Gloucester	25 Monmouth	35 Somerset
5 Burlington	17 Hudson	27 Morris	37 Sussex
7 Camden	19 Hunterdon	29 Ocean	39 Union
9 Cape May	21 Mercer	31 Passaic	41 Warren
11 Cumberland			

PUBLICATIONS OF THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL  
PROTECTION, DIVISION OF WATER RESOURCES PREPARED BY  
OR IN COOPERATION WITH THE U.S. GEOLOGICAL SURVEY

These reports can be obtained from the New Jersey Department of Environmental Protection, Division of Water Resources, P.O. Box CN029, Trenton, N.J. 08625. The Department of Environmental Protection was formerly known as the Department of Conservation and Economic Development. These reports are available for inspection in the West Trenton, N.J. office of the U.S. Geological Survey.

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- SR 6. Supplementary report on the ground-water supplies of the Atlantic City region, by H.C. Barksdale, R.W. Sundstrom, and M.S. Brunstein. 1936. 139 p.
- SR 7. Water supplies from the No. 1 sand in the vicinity of Parlin, New Jersey, by H.C. Barksdale. 1937. 33 p.
- SR 8. The ground-water supplies of Middlesex County, New Jersey, by H.C. Barksdale, M.E. Johnson, R.C. Baker, E.J. Schaefer, and G.D. DeBuchananne. 1943. 160 p.
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- SR 13. Ground-water resources in the tri-state region adjacent to the lower Delaware River, by H.C. Barksdale, D.W. Greenman, S.M. Lang, G.S. Hilton, and D.E. Outlaw. 1958. 190 p.
- SR 14. Surface-water supply of New Jersey, streamflow records, October 1, 1945 to September 30, 1950, by D.F. Dougherty and A.C. Lendo. 1959. 362 p.
- SR 16. Surface-water supply of New Jersey, streamflow records, October 1, 1950 to September 30, 1955, by J.E. McCall and A.C. Lendo. 1960. 405 p.

- SR 17. Salt-water encroachment into aquifers of the Raritan Formation in the Sayreville area, Middlesex County, New Jersey, with a section on a proposed tidal dam on the South River, by C.A. Appel. 1962. 47 p.
- SR 18. Ground-water resources of Cape May County, N.J.-- Salt-water invasion of principal aquifers, by H.E. Gill. 1962. 171 p.
- SR 19. Ground-water resources of Mercer County, New Jersey, by John Vecchioli and M.M. Palmer. 1962. 71 p.
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- SR 22. Chloride concentrations of water from wells in the Atlantic Coastal Plain of New Jersey, 1923-61, by P.R. Seaber. 1963. 250 p.
- SR 23. Ground-water resources of Monmouth County, New Jersey, by L.A. Jablonski. 1968. 114 p.
- SR 25. Availability of ground water in Morris County, New Jersey, by H.E. Gill and John Vecchioli. 1965. 56 p.
- SR 26. Geology and ground-water resources of Burlington County, New Jersey, by F.E. Rush. 1968. 45 p.
- SR 27. Geology and ground-water resources of the Rahway area, New Jersey, by H.R. Anderson. 1968. 72 p.
- SR 28. Ground-water resources of Essex County, New Jersey, by W.D. Nichols. 1968. 56 p.
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- SR 30. Water resources and geology of Gloucester County, New Jersey, by W.F. Hardt and G.S. Hilton. 1969. 130 p.
- SR 31. Surface-water supply of New Jersey, streamflow records, October 1, 1960 to September 30, 1965, by A.A. Vickers and J.E. McCall. 1968. 351 p.
- SR 33. Geology and ground-water resources of Salem County, New Jersey, by J.C. Rosenau, S.M. Lang, G.S. Hilton and J.G. Rooney. 1969. 142 p.
- SR 34. Ground-water resources, Cumberland County, New Jersey, by J.G. Rooney. 1971. 83 p.

- SR 36. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey, by E.C. Rhodehamel. 1973. 58 p.
- SR 37. Floods of August and September 1971 in New Jersey, by S.J. Stankowski. 1972. 329 p.
- SR 38. Magnitude and frequency of floods in New Jersey with effects of urbanization, by S.J. Stankowski. 1974. 46 p.

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- WRC 1. Geology and ground-water resources of the Cape May Peninsula, lower Cape May County, New Jersey, by H.E. Gill. 1959. 19 p.
- WRC 2. Records of wells and ground-water quality in Monmouth County, New Jersey, by L.A. Jablonski. 1959. 47 p.
- WRC 4. Factual data for public-supply wells and selected irrigation wells in Monmouth County, New Jersey, by L.A. Jablonski. 1960. 28 p.
- WRC 5. Earthquake fluctuations in wells in New Jersey, by C.R. Austin. 1960. 13 p.
- WRC 6. New Jersey streamflow records analyzed with electronic computer, by E.G. Miller and J.E. McCall. 1961. 91 p.
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- WRC 9. Public water supplies in Gloucester County, New Jersey, by W.F. Hardt. 1963. 55 p.
- WRC 10. Records of wells and ground-water quality in Camden County, N.J. with special reference to public water supplies, by Ellis Donsky. 1963. 70 p.
- WRC 12. Evaluation of geologic and hydrologic data from the test-drilling program at Island Beach State Park, New Jersey, by H.E. Gill, P.R. Seaber, John Vecchioli, and H.R. Anderson. 1963. 25 p.
- WRC 13. Floods in New Jersey magnitude and frequency, by D.M. Thomas. 1964. 145 p.
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- WRC 19. Iron in ground waters of the Magothy and Raritan Formations in Camden and Burlington Counties, New Jersey, by Donald Langmuir. 1969. 49 p.
- WRC 22. A hydrologic analysis of the New Jersey Pine Barrens Region, by E.C. Rhodehamal. 1970. 35 p.
- WRC 23. Statistical summaries of New Jersey streamflow records, by S.L. Laskowski. 1970. 264 p.
- WRC 24. Occurrence and distribution of trace elements in New Jersey streams, by P.W. Anderson. 1970. 24 p.

Bulletins - Geologic Series

- BGS 30. Ground-water supplies of the Atlantic City region, by D.G. Thompson. 1928. 138 p.
- BGS 33. Surface-water supplies of New Jersey to September 30, 1928, by O.W. Hartwell. 1929. 301 p.
- BGS 35. Ground-water supplies in the vicinity of Asbury Park, by D.G. Thompson. 1930. 50 p.
- BGS 38. Ground water supplies of the Passaic River valley near Chatham, N.J., by D.G. Thompson. 1932. 51 p.
- BGS 39. Ground-water supplies of the Camden area, New Jersey, by D.G. Thompson. 1932. 80 p.

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Address inquiries about the availability of these reports to the publishers. Most of the reports are available for inspection in the West Trenton, N.J. office of the U.S. Geological Survey.

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Civil Engineers Proceedings Paper 6138. Journal of Sanitary Engineering Division, v. 94, no. SA 5, p. 779-788.

- OP 2. \_\_\_\_\_, 1968, Urbanization's effect on sediment yield in New Jersey: Soil and Water Conservation Journal, v. 23, no. 4, p. 142-144.
- OP 3. Anderson, P.W., Faust, S.D., and McCall, J.E., 1972, Impact of drought on New Jersey's water resources: American Society Civil Engineers Proceedings Paper 9205, Journal of Irrigation and Drainage Division, v. 98, no. IR3, p. 375-385.
- OP 4. Anderson, P.W., and Faust, S.D., 1972, Impact of drought on quality in a New Jersey water supply system: American Water Resources Association Water Resources Bulletin, v. 8, no. 4, August 1972, p. 750-760.
- OP 5. Anderson, P.W., Murphy, J.J., and Faust, S.D., 1970, Automated stream quality sensing network in New Jersey: Proceedings of the National Symposium on Data and Instrumentation for Water Quality Management, Madison, Wisconsin, p. 261-281.
- OP 6. Barksdale, H.C., 1933, A ten-year record of water-table fluctuations near Runyon, New Jersey: Transactions, American Geophysical Union, 14th annual meeting, 1933. Section of Hydrology, p. 466.
- OP 7. \_\_\_\_\_, 1940, The contamination of ground water by saltwater near Parlin, New Jersey: Transactions, American Geophysical Union.
- OP 8. \_\_\_\_\_, 1945, Ground water problems in New Jersey: American Water Works Association Journal, v. 37, no. 6, p. 563-568.
- OP 9. \_\_\_\_\_, 1949, Depletion of ground water in New Jersey: American Water Works Association Journal, v. 41, no. 6, p. 511-515.
- OP 10. \_\_\_\_\_, 1952, Ground water in the New Jersey Pine Barrens area: Bartonian, December, 1952, no. 26, p. 36-38.
- OP 11. Barksdale, H.C., and DeBuchanne, G.D., 1946, Artificial recharge of productive ground-water aquifers in New Jersey: Economic Geology, v. XLI, no. 7, p. 726-737.
- OP 12. Barksdale, H.C., and Lang, S.M., 1955, Ground water in the Delaware River Valley: American Society Civil Engineers Proceedings Paper 593, Journal Sanitary Engineering Division, v. 81, 8 p.

- OP 13. Barksdale, H.C., and Remson, Irwin, 1954, The effect of land-management practices on ground water: L'Association Internationale d'Hydrologie, no. 37, p. 520-525.
- OP 14. Carter, C.H., 1978, A regressive barrier and barrier-protected deposit: depositional environments and geographic setting of the late Tertiary Cohansey Sand: Journal of Sedimentary Petrology, v. 48, no. 3, p. 933-950.
- OP 15. Faust, S.D., and Anderson, P.W., 1968, Factors influencing the condensation of 4-aminoantipyrine with derivations of hydroxybenzene-III. A study of phenol content in surface waters: New Brunswick, New Jersey, Rutgers University, p. 515-525.
- OP 16. Faust, S.D., Stutz, Hansjakob, Aly, O.M., and Anderson, P.W., 1971, Recovery separation, and identification of phenolic compounds from polluted waters: New Jersey Water Resources Research Institute, Rutgers University, New Brunswick, New Jersey. 56 p.
- OP 17. Fusillo, T.V., Hochreiter, J.J. Jr., Lord, D.G., 1985, Distribution of volatile organic compounds in a New Jersey Coastal Plain aquifer system: Ground Water, v. 23, no.3, May-June 1985, p. 354-360.
- OP 18. George, J.R., and Anderson, P.W., 1963, Water quality studies of New Jersey streams: Public Health News, v. 44, no. 6, June 1963, 6 p.
- OP 19. Gill, H.E., 1960, Evaporation losses from small-orifice rain gages: Geophysical Research Journal, v. 65, no. 9, p. 2877-2881.
- OP 20. Gill, H.E., Vecchioli, John, and Bonini, W.E., 1965, Tracing the continuity of Pleistocene aquifers in northern New Jersey by seismic methods: Ground Water, v. 3, no. 4, October 1965.
- OP 21. Lang, S.M., 1960, Interpretation of boundary effects from pumping test data: American Water Works Association Journal, v. 52, no. 3, p. 356-364.
- OP 22. Little, Silas, Lull, H.W., and Remson, Irwin, 1959, Changes in woodland vegetation and soils after spraying large amounts of waste water: Forest Science, v. 5, no. 1, p. 18-27.
- OP 23. McCall, J.E., 1964, Drought in a humid area: American Society Civil Engineers National Environmental Engineering Conf., Salt Lake City, Utah, 9 p.

- OP 24. Meisler, Harold, 1978, Problems in water-supply development in the New Jersey Pine Barrens Region, and a possible solution: Prepared in cooperation with the New Jersey Department of Environmental Protection for the First Annual Pine Barrens Research Conference, Atlantic City, New Jersey, 25 p.
- OP 25. Remson, Irwin, Appel, C.A., and Webster, R.A., 1965, Ground-water models solved by digital computer: American Society Civil Engineers Proceedings Paper 4330, Journal Hydraulics Division, v. 91, no. HY3, p. 133-147.
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### Abbreviations Used

B	Bulletin
BGS	Bulletin-Geologic Series (NJ)
C	Circular
GF	Geologic Folio
GQ	Geologic Quadrangle Map
HA	Hydrologic Investigations Atlas
I	Miscellaneous Investigations Map
MF	Miscellaneous Field Studies Map
NJ-75-1	Water-Data Report
OF	Open-File Report
OP	Other Publication
P	Professional Paper
SR	Special Report (NJ)
U	Unnumbered Open-File Report
W	Water-Supply Paper
WRC	Water-Resources Circular (NJ)
WRI	Water-Resources Investigations Report

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