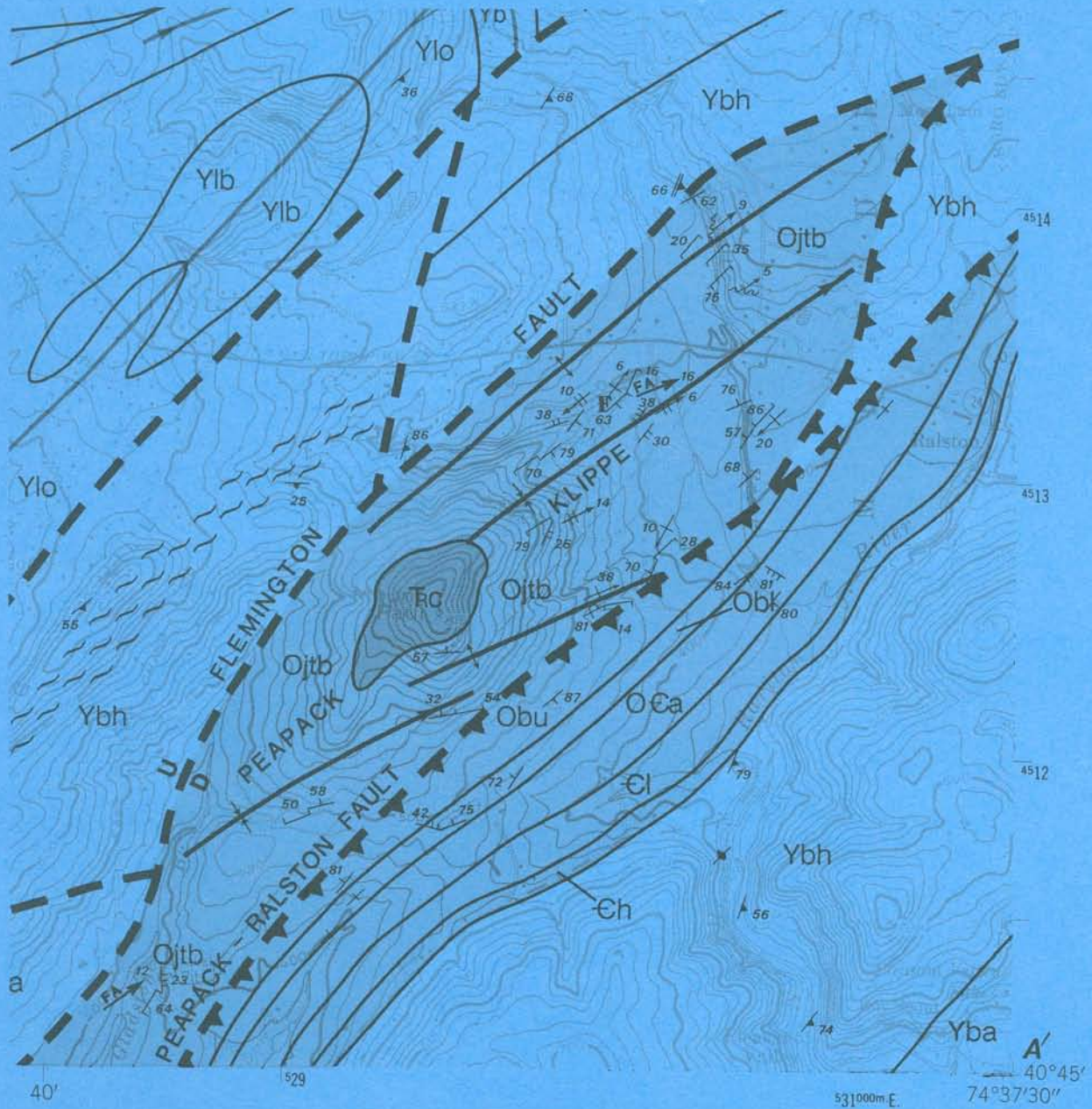




INDEX OF NEW JERSEY GEOLOGIC MAPS



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Cover illustration: Portion of "Bedrock geologic map of the Chester quadrangle, Morris County, New Jersey" (New Jersey Geological Survey Geologic Map 90-1, scale 1:24,000, in press). This map was done as part of the N.J. Geological Survey/U.S. Geological Survey COGEMAP geologic mapping program, the first statewide revision of geologic mapping since 1915. Field work is nearing completion.



Location of
Chester Quadrangle

**New Jersey Geological Survey
Geological Survey Report GSR 24**

INDEX OF NEW JERSEY GEOLOGIC MAPS

by
Daniel R. Dombroski, Jr.

New Jersey Department of Environmental Protection
Division of Water Resources
Geological Survey
CN-029
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1990

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INTRODUCTION

This index lists geologic maps and publications containing geologic maps for New Jersey. In addition to conventional bedrock and surficial geologic maps, the index includes hydrogeologic maps, structural maps, bedrock topographic maps, and other similar maps. Geophysical maps (magnetic anomaly maps, gravity anomaly maps, radioactivity anomaly maps and the like), coastal geomorphology maps, offshore geologic maps, and seismicity maps are not included. These and other materials are listed in "Bibliography and index of New Jersey geology, 1753-1983" (New Jersey Geological Survey Report 21).

While the index was intended to include as much map information as possible, some exclusions were appropriate. Maps based predominantly on previously published information are included only if they are essential to a major contribution (as, for example, a county ground-water report) or part of a significant compilation project (as, for example, the statewide Atlas Sheet overlay series of the 1970s). Maps of scale 1:1,000,000 or smaller are included only if they are historically significant or show interpretations or data not available elsewhere.

The index is in two parts:

"Maps covering large areas" lists maps with geologic data for 25 or more New Jersey 7.5-minute U.S. Geological Survey quadrangles. These are regional, statewide and other kinds of small-scale maps not generally be sought in a quadrangle-by-quadrangle search. Placing them in a separate list greatly reduced the size of the report.

"Quadrangle Index" shows maps with data for less than 25 quadrangles. Each map is listed under each New Jersey quadrangle for which it shows geologic information. Quadrangle names and locations are shown on figure 1, page 2.

No map is included in both listings.

Entries in the indexes consist only of author, year of publication, and title. A complete reference to each publication, with annotations describing content and format of maps is in the "Bibliography" section. For maps including data for other states, the size indicated is the size for the New Jersey portion of the map.

Your additions, corrections, and suggestions as to how we might improve future revisions are sincerely welcomed. They should be addressed to:

Editor
New Jersey Geological Survey
CN-029
Trenton, NJ 08625

NEW JERSEY QUADRANGLE NAMES

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- Cook, G.H., 1884, Geological map of a part of N.J. (covers N.J. south of 40°45', shows interpretations not on Cook, 1879), scale 1:380,000, 18x24 in., in Whitfield, R.P., *Brachiopoda and lamelibranchiata of the Raritan Clays and Greensand marls of N.J.*, N.J. Geological Survey Report on Paleontology, v. 1, 339 p.
- Cook, G.H., 1889, Geological map of N.J. from original surveys, N.J. State Atlas, sheet 20, scale 1:316,800, 2 cross sections, shows Terminal Moraine.
- Cook, G.H., and Smock, J.C., 1878, Report on the clay deposits of Woodbridge, South Amboy and other places in N.J., 381 p.
Includes "Map of the clay district of Middlesex Co.," (shows stone-ware clay, "kaolin," fireclay outcrops), scale 1:21,100, 30x38 in.
- Crowl, G.H., 1971, Pleistocene geology and unconsolidated deposits of the Delaware Valley, Matamoras to Shawnee on Delaware, Pa.: Pa. Geological Survey General Geologic Report 60, 40 p., reprinted 1974.
Includes map showing unconsolidated deposits, scale 1:24,000, 57x37 in.
- Cummings, W., 1983, Ferroaxinite from Bridgeville, N.J.: *The Mineralogical Record*, v. 14, no. 1, p. 43-44.
Includes map showing Precambrian geology at Oxford quarry and environs, scale 1:31,300, 8x4 in.

D

- Darton, N.H., 1890, The relations of the Newark System in the N.J. region: U.S. Geological Survey Bulletin 67, 82 p.
Includes map, scale 1:538,600, 10x10 in.; larger scale details of Watchung Mountains, Sourland-Rocky Hill area, and Round Valley area.
- Darton, N.H., 1894, Geologic relations from Green Pond, N.J. to Skunnemunk Mt., N.Y.: *Geological Society of America Bulletin*, v. 5, p. 367-394.
Includes map showing Paleozoic geology, scale 1:360,000, 6x9 in.
- Darton, N.H., 1896, Artesian well prospects in the Atlantic Coastal Plain region: U.S. Geological Survey Bulletin 138.
Includes maps showing areas underlain by Lower Cretaceous water horizons and by upper Cretaceous and Chesapeake water horizons, scale 1:780,000, 16x10 in.
- Darton, N.H., Bayley, W.S., Salisbury, R.D., and Kummel, H.B., 1908, Description of the Passaic quadrangle, N.J. - N.Y.: U.S. Geological Survey Geologic Atlas, folio 157: N.J. Geological Survey Geologic Atlas, folio 1.
Includes maps showing topography, bedrock geology, surficial geology, structural geology, 3 maps, scale 1:125,000, 18x22 in.
- Davis, R.E., Drake, A.A., Jr., and Epstein, J.B., 1967, Geologic map of the Bangor quadrangle, Pa.-N.J.: U.S. Geological Survey Map GQ-665.
Bedrock geology, five cross-sections, scale 1:24,000, 40x28 in.
- Drake, A.A., Jr., 1967, Geologic map of the Bloomsbury quadrangle: U.S. Geological Survey Map GQ-595.
Shows bedrock and some surficial geology. Includes four cross-sections, scale 1:24,000, 40x32 in.
- Drake, A.A., Jr., 1967, Geologic map of the Easton quadrangle, N.J.-Pa.: U.S. Geological Survey Map GQ-594.
Bedrock geology, five cross sections, scale 1:24,000, 47x32 in.
- Drake, A.A., Jr., 1978, The Lyon Station - Paulins Kill nappe-The frontal structure of the Musconetcong nappe system in eastern Pa. and N.J.: U.S. Geological Survey Professional Paper 1023, 20 p.
Includes maps showing structure and bedrock geology, scale 1:24,000, 22x20 in.; aeromagnetic map showing Musconetcong nappe, scale 1:224,000, 8x3 in.; nappe structure, bedrock and surficial geology, scale 1:50,000, 29x19 in.

Drake, A.A., Jr., and others, 1978, Preliminary geologic map of the Newark quadrangle: U.S. Geological Survey Open-File Report 78-595, scale 1:250,000, 29x32 in. [Final version by Lyttle and Epstein, 1987]

Drake, A.A., Jr., and Epstein, J.M., 1969, Geologic map and sections of parts of the Portland and Belvidere quadrangles, N.J.-Pa.: U.S. Geological Survey Miscellaneous Geological Investigations Map I-552, bedrock geology, 3 cross sections, scale 1:24,000, 32x51 in.

Drake, A.A., Jr., and Lyttle, P.T., 1980, Alleghanian thrust faults in the Kittatinny Valley, N.J., in Manspeizer, ed., Field studies of N.J. geology and guide to field trips [N.Y. State Geological Association 52nd annual meeting, Newark, N.J., 1980], p. 179-187. Includes maps showing structure and bedrock geology, scale 1:150,000, 6x4 in.; thrusts, klippen and nappes, aeromagnetics, scale 1:73,500, 6x9 in.

Drake, A.A., Jr., and Lyttle, P.T., 1985, Geologic map of the Blairstown quadrangle, Warren Co., N.J.: U.S. Geological Survey Geologic Quadrangle Map GQ-1585, bedrock geology, 3 cross sections, scale 1:24,000, 20x28 in.

Drake, A.A., Jr., McLaughlin, D.B., and Davis, R.E., 1961, Geology of the Frenchtown quadrangle: U.S. Geological Survey Map GQ-133, bedrock geology, 2 cross sections, text, scale 1:24,000, 50x30 in.

Drake, A.A., Jr., McLaughlin, D.B., and Davis, R.E., 1967, Geologic map of the Riegelsville quadrangle, Pa.-N.J.: U.S. Geological Survey Map GQ-593, bedrock geology, 5 cross sections, scale 1:24,000, 37x31 in.

E

Epstein, J.P., 1969, Surficial geology of the Stroudsburg quadrangle, Pa.-N.J.: Pa. Geological Survey General Geologic Report G 57, 67 p., map, scale 1:24,000, 31x28 in.

Epstein, J.P., 1973, Geologic map of the Stroudsburg quadrangle, Pa.-N.J.: U.S. Geological Survey Map GQ-1047, bedrock geology, 6 cross-sections, text, scale 1:24,000, 44x32 in.

F

Farlekas, G.M., 1979, Geohydrology and digital-simulation model of the Farrington aquifer in the northern coastal plain of N.J.: U.S. Geological Survey Water Resources Investigations 79-106, 62 p. Includes 7 maps: structural contour and isopach of Farrington Member, isopach of upper confining layer of Farrington, potentiometric surfaces of Farrington and Old Bridge Members for 1959 and 1973, all at scale 1:210,000, 8.5x11 in.

Farlekas, G.M., Nemickas, Bronius, and Gill, H.E., 1976, Geology and ground-water resources of Camden Co., N.J.: U.S. Geological Survey Water Resources Investigations 76-76, 146 p. Includes maps showing bedrock topography under Philadelphia and a portion of Camden City, scale 1:63,360, 17x11 in.; structural contour, isopach, potentiometric maps of coastal plain formations, 33 maps, scale 1:200,000, 8x10 in.; sulphate concentrations in lower aquifer of the Potomac-Raritan-Magothy, potentiometric levels of the middle and lower aquifers of the Potomac-Raritan-Magothy, 2 maps, scale 1:63,360, 17x22 in.

G

Ghatge, S.L., and Hall, D.W., 1989, Geophysical investigations to determine bedrock topography in the East Hanover-Morristown area, Morris Co., N.J.: N.J. Geological Survey Geological Survey Report 17, 24 p.

Includes 3 map: bedrock topography, Bouguer gravity anomaly, residual gravity anomaly, scale 1:24,000, 20x14 in.

Ghatge, S.L., Jagel, D.L., and Herman, G.C., in press, Gravity investigations to delineate subsurface geology in the Beemerville area, Sussex Co., N.J., New Jersey Geological Survey Report. Includes 3 maps: Bouguer anomaly, residual gravity, aeromagnetic maps, on geologic base, scale 1:100,000, 18x22 in.

Gill, H.E., 1959, Geology and ground-water resources of the Cape May peninsula, lower Cape May Co., N.J., a preliminary report: N.J. Division of Water Resources Circular 1, 19 p.

Includes map showing structural contours of top of Kirkwood and bottom of Pleistocene; chloride concentrations of five aquifers, 7 maps, all at scale 1:210,000, 8x10 in.

Gill, H.E., 1962, Ground-water resources of Cape May Co., N.J. Salt water invasion of principal aquifers: N.J. Division of Water Resources Special Report 18, 171 p.

Includes map showing surficial geology, scale 1:63,360, 25x36 in., 20 figures showing structural contours, water levels, isochlors, salt water intrusion, etc., all at scale 1:365,000, 5x8 in.

Gill, H.E., and Farlekas, G.M., 1976, Geohydrologic maps of the Potomac-Raritan-Magothy aquifer system in the N.J. Coastal Plain: U.S. Geological Survey Hydrogeologic Investigations Atlas HA-557.

Includes maps showing structural contours for bedrock, top of Raritan-Magothy, top of Woodbury; piezometric contours for 1900, 1956 and 1968; declines from 1900 to 1955, 1900 to 1968, and 1965 to 1968; isochlor (250 mg/L), scale 1:500,000, 7x8 in.

Gill, H.E., and Vecchioli, J., 1965, Availability of ground-water in Morris Co., N.J.: N.J. Division of Water Resources Special Report 25, 56 p.

Includes:

Bedrock geologic map showing Terminal Moraine, scale 1:125,000, 14x12 in.

Surficial (glacial) geology, scale 1:125,000, 19x17 in.

Gill, H.E., Vecchioli, J., and Bonini, W.E., 1965, Tracing the continuity of Pleistocene aquifers in northern N.J. by seismic methods: *Ground Water*, v. 3, no. 4, p. 33-35.

Includes map showing bedrock topography, pre-Pleistocene channels, scale 1:50,000, 7x8 in.

Goodspeed, R.M., 1967, An investigation of the Precambrian plutonic rocks in the Wanaque area, N.J. [Rutgers University Ph.D. dissertation].

Includes map showing Precambrian geology and structure, scale 1:24,000, 20x24 in.

Granbery, J.H., 1907, The Schuyler Mine, *Journal Franklin Institute*, v. 164, p. 13-28, 217-223.

Includes map of underground workings, scale 1:4,800, 5x7 in.; map of underground workings, scale 1:1,900, 5x7 in.

H

Hague, J.M., Baum, J.L., Herrmann, L.A., and Pickering, R.J., 1965, Geology and structure of the Franklin-Stirling area, N.J.: *Geological Society of America Bulletin*, v. 67, p. 435-474.

Includes map showing bedrock geology and structure near mineralized zones, 7 cross sections, scale 1:17,000, 60x14 in.

Hardt, W.F., and Hilton, G.S., 1969, Water resources and geology of Gloucester Co., N.J.: N.J. Division of Water Resources Special Report 30.

Includes:

Geologic map, cross section, scale 1:250,000, 18x14 in.

Structural contours and piezometric surfaces of Cretaceous and Tertiary formations, 5 maps, scale 1:190,000, 12x12 in.

Dissolved solids and chlorides, scale 1:400,000, 6x7 in.

Harper, D.P., 1984, Geologic compilation map of the Monmouth Junction quadrangle, N.J.: N.J. Geological Survey Open File Map 1, scale 1:24,000, 20x28 in.

Harriman, D.A., Pope, D.A., and Gordon, A.D., 1989, Water-quality data for the Potomac-Raritan-Magothy aquifer system in the northern coastal plain of N.J.: N.J. Geological Survey Report 19, 94 p.

Includes maps showing:

Wells in upper aquifer, Potomac-Raritan-Magothy aquifer system, hydrogeologic section.

Wells in middle aquifer, Potomac-Raritan-Magothy aquifer system, hydrogeologic section.

Herman, G.C., and Mitchell, J.P., in press, Bedrock geology of the Green Pond Mountain region from Dover to Greenwood Lake, N.J.: N.J. Geological Survey Map, scale 1:24,000, 3 plates.

Herman, G.C., and Monteverde, D.H., 1989, Geologic map of southwest Highlands area showing field stops in northern N.J. and eastern Pa., in Grossman, I.G., ed., Paleozoic geology of the Kittatinny Valley and southwest Highlands area, N.J.: Field Guide and Proceedings Geological Society of N.J. annual meeting [6th], scale 1:48,000, 20 x 28 in.

Herman, G.C., and Monteverde, D.H., 1989, Tectonic map of Kitta tinny Valley and Kittatinny Mountain, N.J., in Grossman, I.G., ed., Paleozoic geology of the Kittatinny Valley and southwest Highlands area, N.J.: Field Guide and Proceedings Geological Society of N.J. annual meeting [6th], scale 1:100,000, 20 x 28 in.

Herman, G.C., and Volkert, R.A., in press, Geologic map of the Newfoundland quadrangle, Passaic and Sussex Counties, N.J., bedrock geology, scale 1:24,000.

Herpers, H., 1961, The Ogdensburg-Culvers Gap recessional moraine and glacial stagnation in N.J.: N.J. Geological Survey Geologic Report Series no. 6, 16 p.

Includes map showing recessional moraine, swamps and bogs, scale 1:316,800, 8.5x11 in.

Herpers, H., and Barksdale, H.C., 1951, Preliminary report on the geology and ground-water supply of the Newark, N.J. area: N.J. Division of Water Resources Special Report 10, 52 p.

Includes 2 maps: bedrock topography, chloride concentration, scale 1:95,000, 5x7 in.

Hoffman, J.L., 1989, Simulated drawdowns, 1972-1995, in the Pleistocene buried-valley aquifers in southwestern Essex and southeastern Morris Counties, N.J.: N.J. Geological Survey Open-File Report OF 89-1, 26 p. Includes map showing distribution of buried valleys, scale 1:96,000.

Hotz, P.E., 1945, Preliminary report on the geology of the Sterling-Ringwood magnetite district, N.Y. and N.J.: U.S. Geological Survey Strategic Minerals Investigations (#110818/9)

Includes maps showing bedrock geology, structural geology, mine locations, three cross sections, scale 1:31,000, 20x34 in.

Hotz, P.E., 1953, Magnetite deposits of the Sterling Lake, N.Y.-Ringwood, N.J. area: U.S. Geological Survey Bulletin 982-F, p. 153-244.

Includes map showing bedrock geology, iron mines, scale 1:31,700, 22x24 in.; larger-scale maps of workings at Peters, Cannon mines.

Houghton, H.F., and Volkert, R.A., 1990, Bedrock geologic map of the Gladstone quadrangle, Morris, Hunterdon and Somerset Counties, N.J.: N.J. Geological Survey Geologic Map 89-4, scale 1:24,000.

J

Jablonski, L.A., 1968, Ground-water resources of Monmouth Co., N.J.: N.J. Division of Water Resources Special Report 23, 117 p.

Includes map showing pre-Quaternary geology, scale 1:130,000, 19x15 in.; 18 figures showing structural contours, piezometric contours, isopachs, ground-water chemistry, scale 1:380,000, 5x8 in.

Jennings, D.S., 1964, Geology of southwestern Flatbrook Valley [Lehigh University senior thesis].

Includes map showing bedrock geology, scale 1:24,000, 40x15 in.

Johnson, E.I., 1968, Precambrian geology of parts of Passaic Co. and Sussex Co., N.J., and infrared absorption studies of biotite [Rutgers University Ph.D. thesis].

Includes map showing Precambrian geology, parts of Wawayanda and Newfoundland quadrangles, scale 1:24,000, 36x24 in.

Johnson, M.E., 1950, Geologic map of N.J.: N.J. Geological Survey Atlas Sheet 40 (revision of Kummel, H.B., 1931, and Lewis, J.V., and Kummel, H.B., 1910-1912).

Bedrock and surficial geology, four cross sections, scale 1:250,000, 27x50 in.

Johnson, M.E., and Markewicz, F.J., 1958, Spruce Run-Round Valley Reservoir project: N.J. Division of Water Resources Special Report 15.

Includes geologic map of Spruce Run Lake reservoir site, scale 1:9,500, 23x22 in.; geologic map of Round Valley Lake reservoir site, scale 1:8,800, 29x21 in.

K

Kasabach, H.F., 1962, Bedrock map of the Hackensack Meadows: N.J. Geological Survey Geologic Report Series no. 1, 28 p.

Includes ten cross sections, scale 1:24,000, 56x30 in.

Kasabach, H.F., 1966, Geology and ground water resources of Hunterdon Co., N.J.: N.J. Division of Water Resources Special Report 24, 128 p.

Includes maps showing bedrock geology, well locations, two cross sections, scale 1:63,360, 30x43 in.

Kastelic, R.L., Jr., 1979, Precambrian geology of the N.J. Highlands in Warren Co., N.J. [Lehigh University M.S. thesis].

Includes map showing Precambrian geology and structure, 5 cross sections, scale 1:24,000, 32x26 in.; detailed maps showing Precambrian geology and structure, scale 1:10,000, 7x10 in.

Kleine, J.E., 1957, Pre-Cambrian rocks in the Chester-Califon area [Rutgers University M.S. thesis].

Includes map showing bedrock geology, structure, scale 1:24,000, 39x20 in.

Kummel, H.B., 1898, The Newark System: in N.J. Geological Survey annual report of the State Geologist for 1897, part II, p. 23-159.

Includes map showing Newark Basin geology, strikes and dips, faults, scale 1:370,000, 2 sheets, 10x9 in.; several detailed maps, scale 1:63,360, 4x4 in. (For extension into N.Y. State see Annual Report 1898).

Kummel, H.B., 1901, Report on the portland cement industry: N.J. Geological Survey Annual Report of the State Geologist for 1900, part II, p. 9-101.

Includes 16 geologic maps of Jacksonburg and Kittatinny Limestones, some faults, several cross sections, scale 1:63,360, 5x5 in.; 7 geologic maps, several cross sections, scale 1:21,100, 5x5 in.

Kummel, H.B., 1940, The geology of N.J.: N.J. Geological Survey Bulletin 50, 203 p.

Includes 5 maps showing stages of glacial Lake Passaic, scale 1:570,000, 4x4 in.

Kummel, H.B., and Gage, R.B., 1906, The chemical composition of the white crystalline limestones of Sussex and Warren Counties: N.J. Geological Survey Annual Report of the State Geologist for 1905, part III, p. 77-96.

Includes maps showing outcrop area of the Franklin Formation, scale 1:63,360, 30x10 in.

Kummel, H.B., and Weller, Stuart, 1902, The rocks of the Green Pond Mountain region: N.J. Geological Survey Annual Report of the State Geologist for 1901, part I, p. 1-51.

Includes map showing bedrock geology, strikes, dips and faults, scale 1:63,360, 19x26 in.

L

Lacombe, Pierre, and Duran, P.B., 1988, Map of bedrock-surface topography in parts of the Paterson and Pompton Plains quadrangles, N.J.: U.S. Geological Survey Water-Resources Investigations Report WRI 88-4061.

Includes map showing bedrock elevation between Packanack Mt. and Second Watchung Mt. near State Route 23, two profiles, scale 1:9,200, 12x10 in.

Lewis, J.V., 1907, The Newark (Triassic) copper ores of N.J.: N.J. Geological Survey Annual Report of the State Geologist for 1906, part II, p. 131-164.

Includes maps showing bedrock geology and strikes and dips for the N.J. portion of the Newark Basin and "Copper ores of the N.J. Triassic and their relation to the intrusive and extrusive trap rock," both at scale 1:680,000, 8x5 in.

Lewis, J.V., 1909, Building stones of N.J.: N.J. Geological Survey Annual Report of the State Geologist for 1908, part III, p. 53-124. Includes map showing active and abandoned building stone quarries. Many, particularly very older or small quarries are not shown, scale 1:783,000, 8x8 in.

Lovegreen, J.R., 1974, Paleodrainage history of the Hudson Estuary [Columbia University M.A. thesis].

Includes maps of 9 U.S. Geological Survey 7.5-minute quadrangles showing paleochannels of the ancestral Hudson River and Hackensack Meadows area, elevation of bedrock, numerous cross sections, scale 1:24,000, 66x112 in.

Ludlum, J.C., 1940, Continuity of the Hardyston Formation in vicinity of Phillipsburg, N.J.: N.J. Geological Survey Bulletin 47, 21 p.

Includes map showing bedrock geology, cross section, scale 1:63,360, 15x11 in.

Lyttle, P.T., and Epstein, J.B., 1987, Geologic map of the Newark 1°x2° quadrangle, N.J., PA., and N.Y.: U.S. Geological Survey Miscellaneous Investigations Series Map I-1715. Shows pre-Quaternary geology, cross sections, scale 1:250,000, 28x20 in.

M

MacClintock, Paul, 1954, Leaching of Wisconsin glacial gravels in eastern North America, Geological Society of America Bulletin, v. 65, p. 369-383.

Includes map showing the Bangor and Portland moraines, scale 1:1,300,000, 5x5 in.

Maclure, William, 1809, Observations on the geology of North America (revised 1817), includes geologic map of North America, scale 1:7,500,000, facsimile of 1817 map in 1969 reprint of Merrill, G.P., 1924, The first one hundred years of North American geology (N.Y., Hafner)

Mansfield, G.R., 1922, Potash in the greensands of N.J.: U.S. Geological Survey Bulletin 727, 146 p. (also published in 1923 as N.J. Geological Survey Bulletin 23).

Includes map showing pre-Quaternary geology, scale 1:62,500, 117x24 in.

Markewicz, F.J., 1969, Ilmenite deposits of the N.J. coastal plain, in Subitzky, S., ed., Geology of selected areas in N.J. and eastern Pa. and guidebook of excursions [Geological Society of America, annual meeting, 1969, Atlantic City, N.J.], p. 363-382.

Includes map showing ilmenite distribution, scale 1:170,000, 7x7 in.

Maxey, L.R., 1976, Petrology and geochemistry of the Beemerville carbonatite-alkalic rock complex, N.J.: Geological Society of America Bulletin, v. 87, p. 1551-1559.

Includes map showing Beemerville intrusions, host bedrock, scale 1:77,500, 8.5x11 in.

McLaughlin, D.B., 1944, Triassic stratigraphy in the Point Pleasant district, Pa.: Pa. Academy Science Proceedings, v. 18, p. 62-69.

Includes map showing geology, members of Lockatong Formation near Point Pleasant, Pa., scale 1:116,000, 5x6 in.; 10 more detailed maps, scale 1:16,500, 4x4 in.

McLaughlin, D.B., 1946, The Triassic rocks of the Hunterdon Plateau, N.J.: Pa. Academy Science Proceedings, v. 20, p. 89-98.

Includes geologic map, scale 1:172,000, 5x7 in.

Meier, D.R., 1949, Geophysical investigations in the Trenton-Old Bridge area [Princeton University MS thesis].

Includes maps showing Bouguer anomaly, magnetic anomaly, scale 1:63,360, 31x21 in.

Meisler, H., 1976, Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris Counties, N.J.: U.S. Geological Survey Water Resources Investigations 76-25.

Includes map showing valley fill, Terminal Moraine, well locations, scale 1:24,000, 27x29 in.

Merrill, F.J.H., Darton, N.H., Hollick, A., Salisbury, R.D., Dodge, R.E., Willis, B., and Pressey, H.A., 1902, Description of the N.Y. City district: U.S. Geological Survey Geologic Atlas, folio 83, 19 p.

Includes maps showing topography, bedrock geology, surficial geology, structural geology, 3 maps, scale 1:62,500, 18x22 in.

Metsger, R.W., Tennant, C.B., and Rodda, J.L., 1958, Geochemistry of the Stirling Hill zinc deposit, Sussex Co., N.J.: Geological Society of America Bulletin, v. 69, p. 775-788.

Includes geologic sketch map of ore body, scale 1:2,400, 5x8 in.

Miller, B.L., 1906, Description of the Dover quadrangle, Del., Md., N.J.: U.S. Geological Survey Geologic Atlas, folio 137, 10 p.

Includes maps showing topography, aerial geology. Very little N.J. area covered, scale 1:125,000, 22x18 in.

Miller, J.W., Jr., 1974, Geology and ground water resources of Sussex Co. and the Warren Co. portion of the Tocks Island impact area: N.J. Geological Survey Bulletin 73, 143 p.

Includes map showing bedrock, some surface geology; overlay showing depth to bedrock, scale 1:63,360, 30x42 in.

Minard, J.P., 1959, The geology of Peapack-Ralston valley in north-central N.J. [Rutgers University M.S. thesis], 104 p.

Includes map showing bedrock geology, scale 1:24,000, 16x22 in.

Minard, J.P., 1961, End moraines on Kittatinny Mt., Sussex Co., N.J.: U.S. Geological Survey Professional Paper 424-C, p. 61-64.

Includes map showing moraines and eskers, scale 1:333,500, 8x8 in.

Minard, J.P., 1964, Geology of the Roosevelt quadrangle, N.J.: U.S. Geological Survey Map GQ-340.

Quaternary and pre-Quaternary geology, scale 1:24,000, 35x29 in.

Minard, J.P., 1965, Geology of the Woodstown quadrangle, Gloucester and Salem Counties, N.J.: U.S. Geological Survey Map GQ-340, Quaternary, pre-Quaternary geology, scale 1:24,000, 35x29 in.

Minard, J.P., 1969, Geology of the Sandy Hook quadrangle in Monmouth Co., N.J.: U.S. Geological Survey Bulletin 1276, 43 p.

Quaternary and pre-Quaternary geology, cross section, scale 1:24,000, 35x30 in.

Minard, J.P. 1974, Slump blocks in the Atlantic Highlands of N.J.: U.S. Geological Survey Professional Paper 898, 24 p.

Includes map showing slump blocks; also shows some lineaments, scale 1:18,400, 17x11 in.

Minard, J.P., and Owens, J.P., 1962, Pre-Quaternary geology of the New Egypt quadrangle, N.J.: U.S. Geological Survey Map GQ-161, scale 1:24,000, 50x30 in., text.

Minard, J.P., and Owens, J.P., 1963, Pre-Quaternary geology of the Browns Mills quadrangle, N.J.: U.S. Geological Survey Map GQ-264, scale 1:24,000, 40x28 in., text.

Minard, J.P., and Owens, J.P., 1966, Domes in the Atlantic Coastal Plain east of Trenton, N.J.: U.S. Geological Survey Professional Paper 550-B, p. B16-B19.

Includes structural contour map showing two domes, scale 1:63,360, 7x6 in.

Minard, J.P., Owens, J.P., and Nichols, T.C., 1964, Pre-Quaternary geology of the Mount Holly quadrangle, N.J.: U.S. Geological Survey Map GQ-272, scale 1:24,000, 36x28 in.

Monteverde, D.H., in press, Bedrock geologic map of the N.J. portions of the Culvers Gap and Lake Maskenzha quadrangles, Sussex County, N.J., N.J. Geological Survey Geologic Map, scale 1:24,000.

Mullikin, L.G., 1984, Geologic compilation map of the Flemington Quadrangle, N.J.: N.J. Geological Survey Open File Map 2, bedrock geology, scale 1:24,000, 20x28 in.

N

Nason, F.L., 1891, Iron mines, notes on the active iron mines: N.J. Geological Survey Annual Report of the State Geologist for 1890, p. 51-127.

Includes map showing active and inactive iron mines, scale 1:316,800, 27x19 in.

Nason, F.L., 1891, The post-Archean age of the White Limestones of Sussex Co. N.J.: N.J. Geological Survey Annual Report of the State Geologist for 1890, p. 25-50.

Includes map showing general geology Ogdensburg to McAfee, includes 16 cross sections, scale 1:31,700, 20x9 in.

Nemickas, Bronius. 1974, Bedrock topography and thickness of Pleistocene deposits in Union Co. and adjacent areas, N.J.: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-795.

Two maps: bedrock topography, thickness of Quaternary deposits, scale 1:24,000, 54x37 in., text.

Nemickas, Bronius. 1976, Digital-simulation model of the Wenonah-Mount Laurel aquifer in the Coastal Plain of N.J.: U.S. Geological Survey Open-File Report 75-672, 68 p.

Includes 16 maps: structural contours, isopach, sand lithofacies, potentiometric surface, etc., of Mount Laurel-Wenonah; isopachs of upper and lower confining units; water table, potentiometric surface of Englishtown, scale 1:500,000, 8.5x11 in.

Nemickas, Bronius, 1976, Geology and ground-water resources of Union Co., N.J.: U.S. Geological Survey Water Resources Investigations 76-73, 103 p.

Includes map showing bedrock topography, wells, scale 1:29,800, 45x28 in.

Nemickas, Bronius, and Carswell, L.D., 1976, Stratigraphic and hydrologic relationship of the Piney Point aquifer and the Alloway Clay member of the Kirkwood Formation in N.J.: U.S. Geological Survey Journal of Research, v. 4, p. 1-7.

Includes 4 maps: isopachs, structural contours, Piney Point aquifer and Alloway Clay, scale 1:1,300,000, 3.5x4.4 in.

Nichols, W.D., 1968, Ground-water resources of Essex Co., N.J.: N.J. Geological Survey Special Report 28, 56 p.

Includes maps showing surficial geology, buried valleys, scale 1:63,360, 16x18 in.; bedrock topography of Newark area, scale 1:24,000, 20x24 in.; valley-fill aquifers, scale 1:33,800, 9x16 in.

Nichols, W.D., 1968, Bedrock topography of eastern Morris and western Essex Counties, N.J.: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-549, scale 1:24,000, 35x47 in.

Nichols, W.D., 1977, Geohydrology of the Englishtown Formation in the northern Coastal Plain of N.J.: U.S. Geological Survey Water Resources Investigations 76-123.

Includes 14 maps: structural contours, isopachs, potentiometric surface of Englishtown, isopachs of Englishtown members, upper and lower confining layers, scale 1:585,000, 8x10 in.

N.J. Geological Survey, 1881, Geologic Map of N.J., in N.J. Geological Survey Annual Report of the State Geologist for 1881, scale 1:380,200, 20x33 in. Similar map found in Annual Report for 1882.

N.J. Geological Survey, undated [ca. 1970], Atlas Sheet Overlay Series, Geologic Overlays, scale 1:63,360.

Semi-transparent sheets to overlay N.J. Geological Survey Topographic Atlas, sheets 21-36 (geology for sheet 37 shown as inset on sheet 36).

O

Offield, T.W., 1967, Bedrock geology of the Goshen-Greenwood Lake area, N.Y.: N.Y. State Museum and Science Service Map and Chart Series No. 9.

Includes map showing bedrock geology and structure, cross section near N.J. border, scale 1:48,000, 17x10 in. Very little coverage in N.J.

Olmsted, F.H., Parker, G.G., and Keighton, W.B., 1959, Groundwater resources of the Delaware River service area, 155 p.

Includes map showing Quaternary geology, scale 1:250,000, 2 sheets, 39x39 in.

Olsen, P.E., 1980, Triassic and Jurassic formations of the Newark Basin, in Manspeizer, ed., Field studies of N.J. geology and guide

to field trips [N.Y. State Geological Association, 52nd Annual Meeting, 1980, Newark, N.J.], p. 2-39.

Includes map showing formations and facies of Newark Basin rocks, structural features of basin, scale 1:1,400,000, 8x9 in.

Olsen, P.E., 1980, The latest Triassic and early Jurassic formations of the Newark Basin (eastern North America, Newark Supergroup): stratigraphy, structure, and correlation: N.J. Academy Science Bulletin, v. 25, p. 25-51.

Includes maps showing geology and structure of Cushetunk Mtn. area, two cross sections, scale 1:42,300, 6x6 in.; geology and structure on Palisades ridge near Lincoln Tunnel, three cross sections, scale 1:315,000, 6x4 in.; geology and structure Oakland/Ramapo Fault area, scale 1:175,000, 3x5 in.

Owens, J.P., and Denny, C.S., 1978, Upper Cenozoic deposits of the central Delmarva Peninsula, Md. and Del.: U.S. Geological Survey Professional Paper 1067-A.

Includes maps showing Coastal Plain gravels, Pensauken, Bridgeton, paleocurrent interpretation, scale 1:2,250,000, 7x9 in.

Owens, J.P., and Minard, J.P., 1962, Geologic map of the Columbus quadrangle, N.J.: U.S. Geological Survey Map GQ-160.

Pre-Quaternary geology, scale 1:24,000, 25x30 in., text.

Owens, J.P., and Minard, J.P., 1964, pre-Quaternary geology of the Trenton East quadrangle, N.J.: U.S. Geological Survey Map GQ-341, scale 1:24,000, 33x29 in.

Owens, J.P., and Minard, J.P., 1964, Pre-Quaternary geology of the Bristol quadrangle, N.J.-Pa.: U.S. Geological Survey Map GQ-342, scale 1:24,000, 34x29 in.

Owens, J.P., and Minard, J.P., 1964, Pre-Quaternary geology of the Pemberton quadrangle, N.J.: U.S. Geological Survey Map GQ-262, scale 1:24,000, 37x29 in., text.

Owens, J.P., and Minard, J.P., 1966, Pre-Quaternary geology of the Allentown quadrangle, N.J.: U.S. Geological Survey Map GQ-566, scale 1:24,000, 35x29 in.

Owens, J.P., and Minard, J.P., 1975, Geologic map of the surficial deposits in the Trenton area, N.J. and Pa.: U.S. Geological Survey Miscellaneous Investigations Series Map I-884, scale 1:48,000, 58x38 in., 6 cross sections, text.

Owens, J.P., Minard, J.P., Sohl, N.F., and Mello, J.F., 1970, Stratigraphy of the outcropping post-Magothy Upper Cretaceous formations in southern N.J. and the northern Delmarva Peninsula, Del. and Md.: U.S. Geological Survey Professional Paper 674, 60 p.

Includes map showing pre-Quaternary geology, scale 1:500,000, 10x8 in.

Owens, J.P., and Minard, J.P., 1979, Upper Cenozoic sediments of the lower Delaware Valley and the northern Delmarva Peninsula, N.J., Pa., Del. and Md.: U.S. Geological Survey Professional Paper 1067-D, 47 p.

Includes 13 maps: structural contours, cross-bedding, paleocurrent directions of Bridgeton, Pensauken, Beacon Hill, Spring Lake Beds, Van Scivers Lake Beds, scale 1:1,000,000, 7x9 in.

P

Parker, R.A., and Houghton, H.F., 1990, Bedrock geologic map of Rocky Hill quadrangle, N.J.: U.S. Geological Survey Open-File Report 90-218, scale 1:24,000.

Parker, R.A., and Houghton, H.F., 1990, Bedrock geologic map of Monmouth Junction quadrangle, N.J.: U.S. Geological Survey Open-File Report 90-219, scale 1:24,000.

Parker, G.G., Hely, A.G., Keighton, W.B., and Olmsted, F.H., 1964, Water resources of the Delaware River basin: U.S. Geological Survey Professional Paper 381, 200 p.

Includes 9 maps: structural contours for bedrock and five aquifers, chloride content for Raritan-Magothy, Kirkwood, Cohansy, Quaternary, scale 1:1,150,000; surficial geology, scale 1:500,000, 20x39 in.

Parmalee, C.W., and McCourt, W.E., 1906, A report on the peat deposits of northern N.J.: N.J. Geological Survey Annual Report of the State Geologist for 1905, p. 22-313.

Includes map showing location of swamps and peat deposits, scale 1:316,800, 20x19 in.

Parrillo, D.C., 1960, Precambrian geology of the Wanaque-Butler area [Rutgers University M.S. thesis].

Includes geologic map, scale 1:24,000, 30x24 in.

Peck, F.B., 1905, The talc deposits of Phillipsburg, N.J., and Easton, Pa.: N.J. Geological Survey Annual Report of the State Geologist for 1904, part III, p. 161-185.

Includes map showing talc quarries near Phillipsburg, scale 1:63,360, 5x8 in.

Peck, F.B., 1911, Preliminary report on the talc and serpentine of Northampton Co. and the portland cement materials of the Lehigh district: Pa. Topographic and Geological Survey Report 5.

Includes map showing bedrock geology; economic resources (portland cement, serpentine, talc). Location of quarries, scale 1:62,500, 50x25 in.

Perissoratis, Constantine, and others, 1979, The Taconides of western N.J.: new evidence from the Jutland klippe, Geological Society of America Bulletin, v. 90, p. I 10-I 13, II 154-II 177.

Includes "Geologic map of the Jutland klippe," scale approx. 1:19,000.

Pittis, A.D., 1952, Observations concerning the general geology around Clinton and Annandale, N.J. [Princeton University senior thesis].

Includes map showing bedrock geology; locations of mines and quarries, scale 1:12,500, 27x29 in.

Pucci, A.A., Gronberg, J.A., and Pope, D.A., 1989, Hydraulic properties of the middle and upper aquifers of the Potomac-Raritan-Magothy aquifer system in the northern coastal plain of N.J.: N.J. Geological Survey Report 18, 74 p.

Includes: "Aquifer test and well-acceptance test site locations for the middle aquifer, Potomac-Raritan-Magothy aquifer system," and "Aquifer test and well-acceptance test site locations for the upper aquifer, Potomac-Raritan-Magothy aquifer system," scale 1:126,720, 18x20 in.

R

Ratcliffe, N.M., 1980, Brittle faults (Ramapo Fault) and phyllonitic ductile shear zones in the basement rocks of the Ramapo seismic zones in N.Y. and N.J., and their relationship to current seismicity: *in* Manspeizer, ed., Field studies of N.J. Geology and guide to field trips [N.Y. State Geological Association, 52nd Annual Meeting, 1980, Newark, N.J.], p. 278-311.

Includes map showing major fault zones, phyllonite zones, dike swarms, rock types, earthquake epicenters, etc., scale 1:750,000, 10x15 in.; generalized map of the Ramapo Fault and fault zone showing bedrock, folds, faults, epicenters, etc., scale 1:125,000, 8x8 in.

Ratcliffe, N.M., 1981, Cortlandt-Beemerville magmatic belt: a probable late Taconian alkalic cross trend in the central Appalachians: *Geology*, v. 9, p. 329-335.

Includes regional tectonic map from Cortland, N.Y., to Beemerville, scale 1:910,000, 8x9 in.

Reeds, C.A., 1933, The varved clays and other glacial features in the vicinity of N.Y. City, *in* Berkey, C.P., ed., Guidebook 9 - N.Y. City Excursions [International Geological Congress, XVI session], p. 52-63.

Includes map showing glacial Lakes Passaic, Hackensack, Flushing and Hudson, scale 1:735,000, 5x6 in.

Richards, H.G., Olmsted, F.H., and Ruhle, J.L., 1962, Generalized structure contour maps of the N.J. Coastal Plain: N.J. Geological Survey Geologic Report Series 4, 38 p.

Includes 12 maps: structural contours and isopachs of bedrock surface and Coastal Plain formations, scale 1:1,000,000, 8.5x11 in.

Ridge, J.C., 1983, The surficial geology of the Great Valley Province in eastern Northampton Co., Pa. and Warren Co., N.J. [Lehigh University M.S. thesis].

Includes 5 maps: surficial geology, glacial lakes, sequences of ice margin positions, scale 1:25,686, 26x18 in.

Ries, H., Kummel, H.B., and Knapp, G.N., 1904, The clays and clay industry of N.J.: N.J. Geological Survey Final Report of the State Geologist, v. VI, 523 p.

Includes: principal clay-bearing formations of the state, scale 1:316,800, 2 maps, 26x37 in.; outcrops of clays in Middlesex district (includes Keyport and Matawan areas), 2 maps, scale 1:24,000, 28x32 in.; outcrops of Alloway Clay, scale 1:63,360, 15x15 in.

Rogers, H.D., 1839, A geological map of N.J. to accompany the report on the geology of N.J., scale 1:380,000.

Rooney, J.G., 1971, Ground water resources of Cumberland Co., N.J., N.J. Division of Water Resources Special Report 34, 20 p.

Includes detailed lithologic and hydrologic descriptions, refers to Kummel and Johnson, 1959, for map information.

Rosenau, J.C., Solomon, M.L., Hilton, G.S., and Rooney, J.G., 1969, Geology and ground-water resources of Salem Co., N.J.: N.J. Geological Survey Special Report 33, 142 p.

Includes 7 maps: surficial and pre-Quaternary geology; structural contours on bedrock, Magothy, Mount Laurel-Wenonah and Vincentown; potentiometric surface of Mount Laurel-Wenonah, scale 1:175,000, 14x14 in.

Runyan, D.R., 1961, Bedrock topography of the Kingston-Plainsboro-Monmouth Junction area [Princeton University senior thesis].

Includes 3 maps: bedrock topography surface geology, bedrock lithology, scale 1:24,000, 25x25 in.

Rush, F.E., 1968, Geology and ground-water resources of Burlington Co., N.J.: N.J. Department of Conservation and Economic Development Special Report 26, 65 p.

Includes 12 maps: pre-Quaternary geology, structural contour maps of bedrock and aquifers, hardness of water in Raritan-Magothy, isoliths of sand in Raritan-Magothy, scale 1:250,000, 9x12 in.; iron content of water in Raritan-Magothy and English-town, hardness of water in English-town, piezometric surface of Mount Laurel-Wenonah, scale 1:350,000, 6x5 in.

S

Salisbury, R.D., 1893, Surface geology: N.J. Geological Survey Annual Report of the State Geologist for 1892, part I, p. 33-38.

Includes map showing eskers near Ramsey, scale 1:63,360, 5x8 in.

Salisbury, R.D., 1894, Surface geology: N.J. Geological Survey Annual Report of the State Geologist for 1893, part I.

Numerous maps including:

Glacial striae on the Palisades Ridge, scale 1:63,360, 34x10 in.
Tilting of glacial Lake Passaic with relative elevations along shoreline, scale 1:316,800, 5x6 in.

"Map of the extinct Lake Passaic, showing its outline, the position of the present shore features and the deformation which its shores have suffered," scale 1:63,360, 27x38 in.

Moraines, glacial drift, old drift, river drift, Lake Passaic, scale 1:316,000, 27x38 in.

"Map showing the distribution of intra-moranic and extra-moranic drift"; (this map also in N.J. Geological Survey Final Report of the State Geologist, v. 5, plate 28.)

Salisbury, R.D., 1895, Surface geology: N.J. Geological Survey Annual Report of the State Geologist for 1894, part I.

Includes: "A preliminary map of the surface formations of the Valley of the Passaic," scale 1:63,360, 27x38 in.; direction of ice movement, scale 1:1,000,000, 8x12 in.

Salisbury, R.D., 1898, Surface geology: N.J. Geological Survey Annual Report of the State Geologist for 1897, part I, p. 1-170.

Includes map showing surficial geology (statewide), scale 1:1,000,000, 9x13 in.

Salisbury, R.D., 1902, Glacial geology: N.J. Geological Survey Final Report of the State Geologist, v. 5, 802 p.

Numerous maps including: "Direction of ice movement," scale 1:316,800, 18x15 in.; successive stages of Lake Passaic, 7 maps, scale 1:275,000, 10x10 in.; surficial geologic maps of local areas at scales 1:24,000 and 1:9,600.

Schubert, C.B., 1960, Geology of the Port Jervis South quadrangle N.Y.-N.J.-Pa. [N.Y. University M.S. thesis].

Includes map showing Paleozoic geology and structure, scale 1:24,000, 17x22 in.

Sims, P.K., 1958, Geology and magnetite deposits of the Dover district, Morris, Co., N.J.: U.S. Geological Survey Professional Paper 287, 162 p.

Includes map showing bedrock geology, structure, mines and pits, etc., scale 1:31,700, 31x38 in.; detailed map of the Mt. Hope mine.

Sims, P.K., and Leonard, B.F., 1952, Geology of the Andover mining district, Sussex Co., N.J.: N.J. Geological Survey Bulletin 62, 42 p.

Includes 2 maps showing geology and structure, scale 1:1,800, 24x29 in.; detailed maps, scale 1:600.

Smith, B.L., 1969, The Precambrian geology of the central and northeastern parts of the N.J. Highlands, *in* Subitzky, S., ed., Geology of selected areas in N.J. and eastern Pa. and guidebook of excursions [Geological Society of America, Annual Meeting, 1969, Atlantic City, N.J.], p. 35-47.

Includes preliminary map showing Precambrian geology, scale 1:350,000, 10x7 in.

Spencer, A.C., 1909, The Mine Hill and Stirling Hill zinc deposits of Sussex Co., N.J.: N.J. Geological Survey Annual Report of State Geologist for 1908, part 2, p. 23-52.

Includes "Geologic map of Franklin Furnace and vicinity with 7 sections of the zinc ore bodies," scale 1:43,500, 5x7 in.

Spencer, A.C., Kummel, H.B., Wolff, J.E., Salisbury, R.D., and Palache, C., 1908, Description of the Franklin Furnace quadrangle, N.J.: U.S. Geological Survey Geologic Atlas, folio 161; N.J. Geological Survey Geologic Atlas, folio 2, 27 p.

Includes maps showing topography, surficial geology, bedrock and structural geology, scale 1:62,500, 22x18 in.; topography, economic geology [detailed bedrock geology], 7 cross sections, Franklin Furnace-Stirling Hill area, scale 1:14,400, 22x18 in.

Spink, W.J., 1963, Structure of the Cambro-Ordovician sedimentary rocks of Sussex Co., N.J. [Rutgers University M.S. thesis].

Includes map showing bedrock geology, 3 cross sections, 3 sheets, scale 1:24,000, 30x35 in.

Spink, W.J., 1967, Stratigraphy and structure of the Paleozoic rocks of northwestern N.J. [Rutgers University Ph.D. dissertation].

Includes map showing bedrock geology, major glacial features, structure, fold axes, cross joints, 6 sheets, scale 1:24,000, 36x54 in.

Stanford, S.D., in press, Surficial geology of the Hamburg quadrangle: N.J. Geological Survey Geologic Map Series 88-2, scale 1:24,000, 20x26 in., 4 cross sections, text.

Stanford, S.D., 1989, Surficial geologic map of the Boonton quadrangle Morris Co., N.J.: N.J. Geological Survey Map 89-1, scale 1:24,000, scale 1:24,000, 20x26 in., 4 cross sections, text.

Stanford, S.D., 1989, Surficial geologic map of the Dover quadrangle Morris and Sussex Counties, N.J.: N.J. Geological Survey Map 89-2, scale 1:24,000.

Stanford, S.D., and Harper, D.P., 1985, Reconnaissance map of the glacial geology of the Hamburg Quadrangle, N.J.: N.J. Geological Survey Geologic Map Series 85-1, scale 1:24,000, 20x28 in., 2 cross sections, text.

Stanford, S.D., Witte, R.W., and Harper, D.H., in press, Hydrogeologic character and thickness of the glacial sediment of N.J.: N.J. Geological Survey Open-File Map, scale 1:100,000, 40x50 in.

T

Tedrow, J.C.F., and MacClintock, P., 1953, Loess in N.J. soil materials: Soil Science, v. 75, p. 19-29.

Includes map showing loess and valley train, Mercer Co., limits of Wisconsin, Illinoian and Kansan drift, scale 1:430,000, 5x7 in.

Thompson, D.G., 1932, Ground water supplies of the Passaic River Valley near Chatham, N.J.: N.J. Geological Survey Bulletin 38, 51 p.

Includes map showing bedrock contours, scale 1:39,000, 12x9 in.

Thurston, W.R., 1951, Geology and mineralogy of the manganese deposit at Clinton Point, N.J.: Short geologic papers: N.J. Geological Survey Bulletin 60, 22 p.

Includes map showing geology near Clinton, scale 1:31,700, 5x8 in.

U

U.S. Geological Survey, 1967, Engineering geology of the north-east corridor, Washington, D.C., to Boston, Mass.,-bedrock geology: U.S. Geological Survey Miscellaneous Geologic Investigations, Map I-514A.

Includes maps showing bedrock geology north of Fall Line, structural contours of pre-Cretaceous south of the Fall Line, 6 sheets, scale 1:250,000, 48x34 in.

U.S. Geological Survey, 1967, Engineering geology of the north-east corridor, Washington, D.C., to Boston, Mass.,-Coastal Plain and surficial geology: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-514B.

Includes map showing Quaternary geology within Northeast Corridor, Quaternary and pre-Quaternary of the entire N.J. Coastal Plain. 6 sheets, scale 1:250,000, 52x36 in.

V

VanHouten, F.B., 1969, Late Triassic Newark group, north-central N.J. and adjacent Pa. and N.Y., *in* Subitzky, S., ed., Geology of selected areas in N.J. and eastern Pa. and guidebook of excursions [Geological Society of America, Annual Meeting, 1969, Atlantic City, N.J.], p. 314-347.

Includes map showing isopachs, faults, folds, scale 1:1,320,000, 8x4 in.

Vecchioli, John, 1957, Pre-Cambrian rocks in the Jenny Jump Mountain area [Rutgers University M.S. thesis].

Includes map showing Precambrian rock types, some strike and dip of foliation, scale 1:24,000, 36x20 in.

Vecchioli, John, and Miller, E.G., 1973, Water resources of the Ramapo River basin, N.J., U.S. Geological Survey Water Supply Paper 1974, 77 p.

Includes page-size geologic map, scale approx. 1:350,000.

Vecchioli, John, Nichols, W.D., and Nemickas, Bronius, 1967, Results of the second phase of drought-disaster test-drilling program near Morristown, N.J.: N.J. Division of Water Resources Circular 17, 23 p.

Includes map showing valley fill aquifers greater than 30 feet thick, scale 1:24,000, 18x24 in.

Vecchioli, John, and Palmer, M.M., 1962, Ground water resources of Mercer County, N.J., N.J. Division of Water Policy and Supply Special Report 9, 71 p.

Includes page-size maps showing pre-Quaternary and Pleistocene, scale approx. 1:250,000.

Volkert, R.A., 1988, Geologic map of the Mendham quadrangle, Morris Co., N.J.: N.J. Geological Survey Geologic Map Series 88-3, bedrock geology, scale 1:24,000, 24x30 in.

Volkert, R.A., 1989, Provisional geologic map of the Proterozoic rocks of the Morristown quadrangle, N.J., N.J. Geological Survey Map 89-3, scale 1:24,000.

Volkert, R.A., 1989, Provisional geologic map of the Proterozoic and lower Paleozoic rocks of the Califon quadrangle, Hunterdon and Morris Counties, N.J., N.J. Geological Survey Map 89-3, scale 1:24,000.

Volkert, R.A., Markewicz, F.M., and Drake, A.A., Jr., 1989, Geologic map of the Chester quadrangle, Morris Co., N.J.: N.J. Geological Survey Geologic Map Series 89-5, scale 1:24,000, 20x28 in.

Volkert, R.A., Monteverde, D.H., and Drake, A.A., Jr., in press, Bedrock geologic map of the Hackettstown quadrangle, Morris, Warren, and Hunterdon Counties, N.J.: N.J. Geological Survey Map, scale 1:24,000.

Volkert, R.A., Monteverde, D.H., and Drake, A.A., Jr., 1989, Geologic map of the Stanhope quadrangle, Morris and Sussex Counties, N.J.: U.S. Geological Survey Map GQ-1671, scale 1:24,000, 20x28 in., text.

Vreeland, J.H., 1965, Gravity anomalies and geology of the Jenny Jump Mountain area, N.J. [Princeton University M.S. thesis].

Includes 6 maps: bedrock geology, aeromagnetic anomaly, Bouguer gravity anomaly, scale 1:24,000, 43x47 in.; bedrock geology, aeromagnetic anomaly, Bouguer gravity anomaly, scale 1:115,000, 10x8 in.

W

Westgate, L.G., 1896, The geology of the northern part of Jenny Jump Mountain, Warren Co., N.J.: N.J. Geological Survey Annual Report of the State Geologist for 1895, part II, p. 21-62.

Includes map showing Precambrian geology, scale 1:21,100, 21x9 in.

Widmer, Kemble, 1965, Geology and ground-water resources of Mercer Co., N.J.: N.J. Geological Survey Geologic Report Series 7, 115 p.

Includes map showing Triassic and Cretaceous, scale 1:63,360, 28x22 in.

Waldner, J.S., Bambrick, T.C., and Groenewold, J.C., 1989, Seismic refraction and electrical resistivity surveys, West Milford Township, Passaic County, N.J.: N.J. Geological Survey Technical Memorandum 88-5, 35 p.

Includes bedrock topographic maps and profiles for two areas of approximately 1000x1000 ft., map scale 1:12,000.

Witte, R.W., 1988, The surficial geology and Woodfordian glaciation of a portion of Kittatinny Valley and the N.J. Highlands in Sussex County, N.J. [M.S. thesis]: Lehigh Univ., Bethlehem, Pa., 276 p. Includes map showing surficial geology, scale 1:24,000.

Witte, R.W., in press, Surficial geologic map of the Branchville quadrangle, N.J.: N.J. Geological Survey Map, scale 1:24,000.

Witte, R.W., in press, Surficial geology of Kittatinny Valley and vicinity in the southern part of Sussex County, N.J.: N.J. Geological Survey Open-File Map, scale 1:24,000.

Wolff, J.E., 1894, Geologic structure in the vicinity of Hibernia, N.J. and its relationship to the ore deposits: N.J. Geological Survey Annual Report of the State Geologist for 1893, p. 359-369.

Includes map showing Hibernia, Mt. Hope, Splitrock, other ore bodies; biotite-gamet-graphite gneiss bands; scale 1:31,700, 15x14 in.

Wolff, J.E., 1897, Report on Archean geology: N.J. Geological Survey Annual Report of the State Geologist for 1896, part 3, p. 89-94.

Includes map showing intrusives between Beemerville and Franklin, scale 1:63,360, 14x9 in.

Woodward, H.P., 1944, Copper mines and mining in N.J.: N.J. Geological Survey Bulletin 57, 157 p.

Includes maps showing location of eleven copper mines and prospects, scale 1:170,000, 9x6 in.

Woolard, G.P., Ewing, M., and Johnson, M., 1938, Geophysical investigations of the geological structure of the Coastal Plain: Transactions America Geophysical Union, 19th. Annual Meeting p. 98-107.

Includes map showing two basement faults near Plainsboro, cross sections, scale 1:30,000, 8x5 in.

Y

Yahn, W.J., 1945, The Millstone River problem [Princeton University senior thesis].

Includes map showing bedrock topography, scale 1:63,360, 13x16 in.

Young, Davis, 1971, Precambrian rocks of the Lake Hopatcong area, N.J.: Geological Society of America Bulletin, v. 82, p. 143-158.

Includes map showing Precambrian bedrock, structure, scale 1:63,360, 14x8 in.

Yuan, Jennwei, 1976, Sediments in the Lower N.Y. and Raritan Bays [Lehigh University Ph.D. dissertation].

Includes numerous maps showing sediments and modern sedimentary environments in the bays, 18 maps, scale 1:150,000, 8x5.5 in.; 17 maps, scale 1:225,000, 5.5x3.75 in.

Z

Zapczka, O.S., 1984, Hydrologic framework of the N.J. Coastal Plain: U.S. Geological Survey Open-File Report 84-730, 61 p.

Includes structural contour maps of bedrock and top of all major aquifers. Isopach maps of all major aquifers, fourteen cross sections, scale 1:250,000, 35 maps, 24x34 in.

Zapczka, O.S., 1984, Hydrologic framework of the N.J. Coastal Plain: U.S. Geological Survey Professional Paper 1404-B, 49 p.

Includes structural contour maps of bedrock and top of all major aquifers. Isopach maps of all major aquifers, fourteen cross sections, scale 1:500,000, 35 maps, 16x20 in.

