



REPORTS AND MAPS OF THE
GEOLOGICAL SURVEY
RELEASED ONLY IN
THE OPEN FILES
1949-1950

By Anna Jespersion, Lois E. Randall, and Robert E. Spratt

UNITED STATES DEPARTMENT OF THE INTERIOR

Oscar L. Chapman, Secretary

GEOLOGICAL SURVEY

W. E. Wrather, Director

Washington, D. C., 1952

Free on application to the Geological Survey, Washington 25, D. C.

REPORTS AND MAPS OF THE GEOLOGICAL SURVEY

RELEASED ONLY IN THE

OPEN FILES, 1949-50

CONTENTS

Introduction.....	1
Geologic Division maps and reports.....	1
Subject index.....	7
Location index.....	8
Water Resources Division reports.....	9
Subject index.....	15
Location index.....	16
Conservation Division maps and reports.....	17
Subject index.....	18
Location index.....	18

INTRODUCTION

This circular contains a list of the maps and reports released by the Geological Survey in 1949 and 1950 that are available only in open-file. They may be consulted in Washington, D. C., and, for most of them, at various field offices. The addresses of the latter are given immediately after the date of the report. The few exceptions, marked with an asterisk, are not available at the Washington, D. C., offices of the Survey.

Most of the maps were duplicated by rapid and inexpensive processes, such as photostat, vandyke, or ozalid, but some were printed by photolithography. Most of the texts for the reports are typed copies (ribbon or carbon copy), but some have been mimeographed. A few of these reports and maps were made available in limited quantities for distribution, as indicated in the list, and these may be obtained as long as the supply lasts.

The reports and maps of the Conservation Division concern the production history, the geology, or the topography of federally owned or controlled lands with regard to water power, oil, and gas; these cover areas studied and mapped by geologists and engineers in 10 states and Alaska.

The reports and maps of the Geologic Division contain results of work accomplished by Survey geologists in 27 states, Alaska, Bikini, Hawaii, Puerto Rico, and a few Western Pacific Islands. These maps and reports are released in preliminary form in order to make available immediately information to property owners and mine operators concerned with exploration for and production of minerals, fuels, and construction materials.

The reports of the Water Resources Division contain information on stream-flow, ground water, quality of water, and related geology and hydrology, in the United States and Alaska.

The material has been arranged alphabetically by authors under the heading of the division of origin.

Each section is provided with two indexes, a subject index and a location index.

GEOLOGIC DIVISION MAPS AND REPORTS

Adams, J. W., Geologic map and sections, Burt mica mine, Custer County, S. Dak: May 25, 1949. U. S. Geological Survey, Custer, S. Dak.; University of South Dakota, Vermillion, S. Dak.

Anderson, C. A., and Cox, M. W., Geology of the Hall molybdenum property, Nye County, Nev: 13 pp; 4 maps. Oct. 19, 1949. U. S. Geological Survey, 506 Federal Bldg., Salt Lake City, Utah; Nevada Bureau of Mines, Reno, Nev.

Armstrong, F. C., and Full, R. P., Geologic maps of Crystal graphite mine, Beaverhead County, Mont: 6 maps. July 31, 1950. U. S. Geologic Survey, South 157 Howard Street, Spokane, Wash.; Montana Bureau of Mines and Geology, Butte, Mont.

Bailey, E. H., Some exploration possibilities at the New Almaden quicksilver mine, Santa Clara County, Calif: 9 pp., 2 ills. Nov. 21, 1950. U. S. Geological Survey, 102 Old Mint Bldg., 5th and Mission Streets, San Francisco, Calif.; California Division of Mines and Geology, Ferry Bldg., San Francisco, Calif.

Bailey, E. H., and Everhart, D. L., The New Almaden quicksilver mine, Santa Clara County, Calif: 9 pp., 22 ills. Oct. 19, 1949. U. S. Geological Survey, 102 Old Mint Bldg., 5th and Mission Streets, San Francisco, Calif.; California Division of Mines and Geology, Ferry Bldg., San Francisco, Calif.

Balsley, J. R., Aeromagnetic maps of part of the Gulf of Mexico: short text, 2 maps. Mar. 1, 1949. U. S. Geological Survey, Federal Bldg., Tulsa, Okla., Room 712, City Hall, Houston, Tex.; 302 West 15th Street, Austin, Tex.; University Station, Baton Rouge, La.; Bureau of Economic Geology, University of Texas, Austin, Tex.

- Balsley, J. R., Jr., Aeromagnetic-geologic maps of Cranberry Lake, Starke, and Childwood quadrangles and part of Russel quadrangle, New York: 2 maps. Oct. 10, 1950. Gouverneur Reading Room Association, Gouverneur, N. Y.; State Science Service, State Educational Bldg., Albany, N. Y.; U. S. Bureau of Mines, College Park, Md., and Washington, D. C.
- Barnes, F. F., Coal investigations on the southern margin of the Homer district, Kenai Coal Field, Alaska, in 1947-48: 20 pp., 4 pls., 1 fig. Dec. 8, 1949. U. S. Geological Survey, San Francisco, Calif., and Juneau and Fairbanks, Alaska. A limited number of copies have been mimeographed, and as long as the supply lasts, copies can be had by writing the U. S. Geological Survey, Washington 25, D. C.
- Bath, G. D., and Cook, K. L., A geophysical survey of a part of the southwestern Johnson Creek fault area, Ochoco quicksilver district, Oregon: 10 pp., maps. July 12, 1949. U. S. Geological Survey, 203 Customhouse, Baltimore, Md.; U. S. Bureau of Mines, Albany, Oreg.; and State Department of Geology and Mineral Industries, Portland, Oreg.
- Bradley, W. H., Sediments and physical environment of the Sagadahoc Bay tidal flat, Georgetown, Maine: 23 pp., 1 map, 3 figs. May 9, 1950. Boothbay Harbor (Maine) Laboratory of the Fish and Wildlife Service; Department of Sea and Shore Fisheries, Vickery Hill Bldg., Augusta, Maine; University of Maine, Orono, Maine; U. S. Geological Survey, 927 Post Office Bldg., Boston, Mass.; Fish and Wildlife Service, Washington, D. C.
- Bradley, W. H., and Tracey, J. I., Jr., Nantucket Harbor and the proposed cut at Chatham Bend: 16 pp., 11 pls. Apr. 6, 1949. U. S. Geological Survey and Director of Waterways, Massachusetts Department of Public Works, 100 Nashua Street, Boston, Mass.
- Bramlette, M. N., The bauxite possibilities of Cuba: 5 pp. Aug. 15, 1950.
- Britt, S. H., translator of eight papers, open-filed May 4, 1949, on engineering geology, as follows:
 No. 6. "Study of a landslide due to the presence of glauconite," by Marthe Proix-Noe, 4 pp. Published in *Comptes rendus hebdomadaires des séances de l'académie des sciences*, Feb. 1946.
 No. 7. "Landslide in Moutier-Court Gorges," by A. Peter, 9 pp. Published in *La Route et la Circulation Routière*, 1938.
 No. 8. "Landslides in the area of Middle Bunter sandstone," by Ernst Sobotha, 3 pp. Published in the *Zeitschrift der Deutschen Geologischen Gesellschaft*, 1941.
 No. 9. "Irrigation and water power in Algeria," by F. Roessinger, 3 pp. Published in the *Bulletin de la Societe Neuchateloise de Geographie*, 1946.
 No. 10. "Geology and large dams in Algeria," by J. Savornin, 16 pp. Published in the *Bulletin du Service de la Carte Geologique de l'Algérie*, 1941.
 No. 11. "Construction of Bou-Hanifia Dam, Algeria," by J. C. Ott, 30 pp. Published as a special edition of the *Societe du Bulletin Technique de la Suisse Romande*, 1946, taken from *Bulletin Technique de la Suisse Romande*, Feb. 5 and 19, 1944.
- No. 12. "Use of sulphitic liquid to reduce the resistance of quartzose rocks to drilling," by E. Lemaire. Published in *Genie Civil*, Feb. 1944.
- No. 13. "Bentonite and its application in water-proofing," by E. Lemaire, 3 pp. Published in the *Genie Civil*, Oct. 1944.
- U. S. Geological Survey, Building 12-B, Denver Federal Center, Denver, Colo. A limited number of copies of the translations have been mimeographed and, as long as the supply lasts, copies can be obtained by writing the U. S. Geological Survey, Washington 25, D. C.
- Buddington, A. F., and Leonard, B. F., Memorandum on the geology of the Crown Point, New York, group of magnetite deposits: 22 pp., geol. map. Oct. 18, 1949. New York State Science Service, State Education Bldg., Albany, N. Y.; County Clerk, Elizabeth, Essex County, N. Y.; Sherman Library, Port Henry, N. Y.; Hepburn Library, Crown Point, N. Y.
- Callaghan, Eugene, Geologic map of the Marysvale area, Utah: Aug. 14, 1950. U. S. Geological Survey, 303 Federal Bldg., Salt Lake City, Utah; State Geologist, School of Mineral Industries, University of Utah, Salt Lake City, Utah.
- Campbell, C. D., Geology of the Bechtol lead mine, Northport district, Stevens County, Wash: 4 pp., 2 maps. Feb. 16, 1949. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; Division of Mines and Geology, Olympia, Wash.
- Castle, R. O., Surficial geologic map of parts of Billerica, Wilmington, and Lexington quadrangles, Mass: Nov. 3, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Chute, Newton E., Preliminary study of beach erosion of the shore line between Nantasket Beach and Duxbury Beach, Massachusetts: 16 pp., 1 map. Dec. 30, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Clabaugh, S. E., Corundum deposits of Montana: 10 pls., 16 figs. Dec. 8, 1949. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; State Bureau of Mines and Geology, Butte, Mont.; Library, Harvard University, Cambridge, Mass.
- Cobb, E. H., Coal investigations on the southwest margin of the Homer district, Kenai coal field, Alaska: 11 pp., 1 map. Sept. 5, 1950. U. S. Geological Survey, 100 Old Mint Bldg., San Francisco, Calif.; Juneau and Fairbanks, Alaska; Bureau of Mines, Federal Bldg., Anchorage, Alaska. A limited number of mimeographed copies are available from the U. S. Geological Survey, Washington 25, D. C.
- Cooper, J. R., Western Molybdenum Co. mine, Chewelah district, Stevens County, Wash: 12 pp., 7 maps. June 1, 1950. U. S. Geological Survey,

- South 157 Howard Street, Spokane, Wash.; State Division of Mines and Geology, Olympia, Wash.
- Cornwall, H. R., Runner, J. J., Stromquist, A. A., Swanson, R. W., and White, W. S., Geologic maps of the Michigan copper mines, Houghton and Keweenaw Counties, Mich: 24 maps. May 23, 1949. U. S. Geological Survey, Science Hall, University of Wisconsin, Madison, Wis.; Department of Conservation, Lansing, Mich.; Department of Geological Engineering, Michigan College of Mining and Technology, Houghton, Mich.
- Creasey, S. C., Geology of the Humboldt region and the Iron King mine, Bigbug mining district, Yavapai County, Ariz: 146 pp., 18 ills. Apr. 21, 1951. Arizona Bureau of Mines, Tucson, Ariz.; University of California, Los Angeles, Calif.
- Currier, L. W., Map showing status of geologic mapping and investigations in Massachusetts and Rhode Island under cooperative programs: Mar. 8, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Currier, L. W., Hansen, W. R., Jahns, R. H., and Willard, M. E., Geologic reconnaissance along proposed relocation of Route 2 in Maynard, Westford, and Ayer quadrangles, Mass: 15 pp., 1 map. Sept. 6, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Deiss, C. F., Analyses of Madison limestone, Wyoming, table and index map: July 9, 1949. U. S. Geological Survey, 305 Federal Bldg., Casper, Wyo.; 230 New Customhouse, Denver, Colo.
- Dempsey, W. J., Five preliminary aeromagnetic maps of Pottsville and vicinity, Mullan and vicinity, Wallace and vicinity, Smelterville and vicinity, and Kellogg and vicinity, all in the Coeur d'Alene mining district, Idaho: Oct. 30, 1950. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, University of Idaho, Moscow, Idaho.
- Dobrovolsky, E., and Miller, Robert D., Descriptive geology of Anchorage and vicinity, Alaska: 15 pp., 6 ills. July 7, 1950. U. S. Geological Survey, 468 New Customhouse, Denver, Colo.; Support Building, Juneau, Alaska; Bureau of Mines and Bureau of Land Management, Anchorage, Alaska.
- Donnell, J. R., Cashion, W. B., Zilbersher, W. M., Gibson, W. C., and Wolman, M. C., Stratigraphic sections of the oil shale deposits in the western part of the Piceance Creek Basin, Garfield and Rio Blanco Counties, Colo: (chart). Sept. 25, 1950. U. S. Geological Survey, 230 New Customhouse, Denver, Colo.
- Duncan, D. C., and Belser, Carl, Geology and oil shale resources of the eastern side of the Piceance Creek Basin, Rio Blanco and Garfield Counties, Colo: 17 pp., 4 figs. May 8, 1950. U. S. Geological Survey, 230 New Customhouse, Denver, Colo.
- Duncan, D. C., Myers, W. H., and Byers, F. M., Geologic maps of the antimony deposits in Antimony Canyon (Coyote Creek), Garfield County, Utah: 7 tables, 4 pls., 3 figs. May 25, 1949. U. S. Geological Survey, 506 Federal Bldg., Salt Lake City, Utah.
- Fletcher, M. H., and May, Irving, An improved fluorimeter for the determination of uranium in fluoride melts: 10 pp., 6 figs. Oct. 12, 1950.
- Fletcher, M. H., May, Irving, and Slavin, Morris, A transmission fluorimeter for use in the fluorimetric method of analysis for uranium: 14 pp., 2 figs. Oct. 12, 1950.
- Gilluly, James, Supplement to U. S. G. S. Professional Paper 209, The Ajo mining district, Arizona: 3 pp., 1 map, 9 cross sections. Apr. 22, 1949. Arizona Bureau of Mines, Tucson, Ariz.
- Good, S. E., Preliminary report of the geology of some mineral deposits in the Twin Craggs area, Kootenai County, Idaho: 11 pp., 2 ills. June 20, 1949. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, University of Idaho, Moscow, Idaho.
- Grimaldi, F. S., and Levine, Harry, The rapid fluorimetric determination of uranium in low-grade ores: 13 pp. Oct. 12, 1950.
- Hawkins, Harold H., and Richards, Ralph W., Geologic investigation at the site of the Post Office Building, Welch, W. Va: 22 pp., 12 figs. May 9, 1950. State Geological and Economic Survey, Morgantown, W. Va.; Post Office, Welch, W. Va.
- Henderson, J. R., Four preliminary aeromagnetic maps covering Clay, Knox, Sullivan, and Vigo Counties, Ind: July 7, 1949. Indiana University, Bloomington, Ind.; State Department of Conservation, Indianapolis, Ind.
- Henderson, J. R., Preliminary aeromagnetic map covering Fountain County, Ind: Sept. 9, 1949. Indiana University, Bloomington, Ind.; State Department of Conservation, Indianapolis, Ind.
- Henderson, J. R., Preliminary aeromagnetic map covering Greene County, Ind: Dec. 22, 1949. Indiana University, Bloomington, Ind.; State Department of Conservation, Indianapolis, Ind.
- Henderson, J. R., Ten preliminary aeromagnetic maps covering Clark, Floyd, Hamilton, Hancock, Harrison, Jackson, Jefferson, Madison, Tipton, and Washington Counties, Ind: June 6, 1950. Indiana University, Bloomington, Ind.; State Department of Conservation, 415 State Library Bldg., Indianapolis, Ind.
- Henderson, J. R., Two preliminary aeromagnetic maps covering Johnson and Marion Counties, Ind: Oct. 1, 1950. Indiana University, Bloomington, Ind.; State Department of Conservation, 415 State Library Bldg., Indianapolis, Ind.

- Heyl, A. V., The upper Mississippi Valley zinc-lead district: 271 pp., 2 maps, 42 figs. Dec. 11, 1950. Princeton University Library, Princeton, N. J.; Wisconsin Geological and Natural History Survey, Science Hall, University of Wisconsin, Madison, Wis.
- Heyl, Allen V., Jr., Lyons, Erwin J., and Theiler, John, Lead and zinc deposits of the Beetown area, Wisconsin: 17 pp., 1 pl. Aug. 1, 1950. U. S. Geological Survey, Wisconsin Institute of Technology, Platteville, Wis.; Science Hall, University of Wisconsin, Madison, Wis.
- Hinrichs, E. N., The pegmatites of the Errington-Thiel mine, Elko County, Nev.: 24 pp., 13 pls. (geol. map), 2 figs. Dec. 28, 1949. Nevada Bureau of Mines, Reno, Nev.; Cornell University Library, Ithaca, N. Y.
- Hobbs, S. W., Wallace, R. E., and Griggs, A. B., Geology of the southern third of the Mullan and Pottsville quadrangles, Shoshone County, Idaho: 24 pp., 1 map. July 10, 1950. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; Division of Mines and Geology, 420 Transportation Bldg., Olympia, Wash.
- Holtz, P. E., Petrology and habit of some diabase sheets in southeastern Pennsylvania: 99 pp., 21 ills. June 8, 1949. Main library and Geology Department library, Princeton University, Princeton, N. J.
- Keller, F., and Henderson, J. R., Total intensity aeromagnetic map of the Magnet Cove area, Hot Spring County, Ark: Mar. 7, 1949. Arkansas Resources and Development Commission, Little Rock, Ark.
- Kennedy, George, Preliminary report on the geology of a portion of the southeast quarter of the Lyon quadrangle, Montana-Idaho: 19 pp., 1 ill. June 14, 1949. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, University of Idaho, Moscow, Idaho; State Bureau of Mines and Geology, Butte, Mont.
- King, P. B., Keith, Arthur, and Hayes, C. W., Geologic map of Murphy quadrangle, Tenn.-N. C.: Sept. 15, 1950. U. S. Geological Survey, Building 12-B, Denver Federal Center, Denver, Colo.; Room 13, Post Office Bldg., Knoxville, Tenn.; Department of Conservation and Development, Raleigh, N. C.; Department of Conservation, Nashville, Tenn.
- Kinney, D. M., The Magnet Cove Rutile Company mine, Hot Spring County, Ark.: 10 pp., 1 ill. Feb. 12, 1949. U. S. Geological Survey, Room 13, Post Office Bldg., Knoxville, Tenn.; Division of Geology, Arkansas Resources and Development Commission, Little Rock, Ark.
- Koschmann, A. H., U. S. Geological Survey diamond drill logs, Kokomo (Tenmile) zinc-lead mining district, Colorado: 1 p., map. Nov. 9, 1949. U. S. Geological Survey, 230 New Customhouse, Denver, Colo.
- Koschmann, A. H., Geologic maps of lead-zinc mines, Kokomo district, Summit County, Colo: 12 maps. Dec. 8, 1950. U. S. Geological Survey, 230 New Customhouse, Denver, Colo.
- Lamey, C. A., Geology of a part of the Felch Mountain iron range, Michigan: 18 pp., 2 pls. May 27, 1949. U. S. Geological Survey, 6 Iron River National Bank Bldg., Iron River, Mich.; Science Hall, University of Wisconsin, Madison, Wis.; Michigan Geological Survey Division, Lansing, Mich.
- Larrabee, D. M., and Adams, K. S., Bumpus quarry, Albany, Maine: map. Oct. 24, 1949. University of Maine, Orono, Maine.
- Lovering, T. S., and Tweto, Ogden, Mine maps of Boulder tungsten district, Colorado: 110 mine maps. Dec. 23, 1950. U. S. Geological Survey, 230 New Customhouse, Denver, Colo.
- Lowell, W. R., Geology of the Small Horn Canyon, Daly's Spur, Cedar Creek, and Dell areas, southwestern Montana: 2 ills. Dec. 8, 1949. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; State Bureau of Mines and Geology, Butte, Mont.
- MacKevett, E. M., The Sally Ann copper area, Ubehebe Peak quadrangle, Inyo County, California: 11 pp., 2 pls. June 28, 1949. U. S. Geological Survey, 102 Old Mint Bldg., 5th and Mission Streets, San Francisco, Calif.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Sturbridge, Mass., Union-Mashapaug Road, Stations 26-33: 3 pp., 1 pl.
 Sturbridge, Mass., Union-Mashapaug Road, Stations 170-183: 3 pp., 1 pl.
 Sturbridge, Mass., Union-Mashapaug Road, Stations 210-217: 3 pp., 1 pl.
 Sutton, Mass., Worcester-Providence Road, Stations 291-296: 2 pp., 1 pl.
 Sutton, Mass., Worcester-Providence Road, Stations 271-276: 2 pp., 1 pl.
 Buckland, Mass., Ashland Road, Stations 228-237: 3 pp., 1 pl.
 Douglas and Sutton, Mass., Worcester-Providence Road, Station 366 Sutton to Station 3 Douglas: 2 pp., 1 pl.
 Apr. 8, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Topsfield, Mass., alteration of Route 1, Stations 163-171: 2 pp., 1 pl.
 Topsfield, Mass., alteration of Route 1, Stations 74-80: 2 pp., 1 pl.
 Apr. 15, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.

- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretation of seismic data, Sturbridge, Mass., Union-Mashapaug Road, Stations 327-335: 3 pp., 1 pl. Apr. 25, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Northbridge, Mass., Worcester-Providence Road, Route 122, Stations 335-340: 2 pp., 1 pl.
 Uxbridge, Mass., Worcester-Providence Road, Stations 53-62: 2 pp., 1 pl.
 Uxbridge, Mass., Worcester-Providence Road, Stations 52 and 62: 2 pp., 1 pl.
 Sturbridge, Mass., Union-Mashapaug Road, Stations 308-316: 3 pp., 1 pl.
 Sutton, Mass., Worcester-Providence Road, Stations 317-324: 2 pp., 1 pl.
 Lexington, Mass., Boston & Maine Railroad Underpass, Route 128, Stations 179-185: 3 pp., 1 pl. May 5, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Waltham, Mass., Route 128, Stations 58-62: 2 pp., 1 pl.
 Danvers, Mass., Newburyport Turnpike, Stations 44-53: 3 pp., 2 pl.
 Sept. 16, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geological interpretation of seismic data, Reading, Mass., grade separation at South Main Street, Route 128: 4 pp., 3 pls. Oct. 28, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Waltham, Mass., Route 128, Stations 69-77: 3 pp., 2 pls.
 Waltham, Mass., Route 128, Stations 87-94: 3 pp., 2 pls.
 Braintree, Mass., Braintree-Weymouth Bypass, Stations 11-14: 2 pp., 1 pl.
 Dec. 28, 1949. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Braintree, Mass., Braintree-Weymouth Bypass, Stations 29-36: 3 pp., 1 pl.
 Danvers, Mass., relocation of Route 1, Stations 150-155: 2 pp., 2 pls.
 Mar. 16, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Wakefield, Mass., Hopkins Street grade separation, Route 128, Stations 1-18: 4 pp., 3 pls.
 Danvers, Mass., relocation of Route 1, Stations 127-135: 2 pp., 2 pls.
 Shelburne, Mass., relocation of Route 2, Shelburne Falls: 4 pp., 2 pls.
 Sturbridge, Mass., relocation of Routes 15 and 20: 3 pp., 2 pls.
 Apr. 28, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretation of seismic data, Lancaster, Mass., relocation of Route 2, Stations 138-155: 4 pp., 3 pls. May 4, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretation of seismic data, Topsfield, Mass., relocation of Route 1, Stations 25-36: 5 pp., 4 pls. June 30, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Maynard, James E., and Linehan, Rev. Daniel, Geologic interpretations of seismic data for the following locations:
 Harvard, Mass., relocation of Route 2, Little Road, Stations 243-252: 4 pp., 2 pls.
 Topsfield, Mass., relocation of Route 1, Stations 34-52: 5 pp., 4 pls.
 Aug. 11, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- McAllister, J. F., Geology of the Lippincott lead area, Inyo County, Calif: 10 pp., 3 pls., geol. map, 1 fig. Sept. 6, 1949. U. S. Geological Survey, 102 Old Mint Bldg.; 5th and Mission Streets, San Francisco, Calif.; California State Division of Mines, Ferry Bldg., San Francisco, Calif.
- Meuschke, J. L., Nine preliminary aeromagnetic maps covering Aitkin County and parts of Itasca, Kanabec, Koochiching, Mille Lacs, Pine, and St. Louis Counties, Minn: Mar. 31, 1950. Minnesota Geological Survey, Pillsbury Hall, University of Minnesota, Minneapolis, Minn.; U. S. Bureau of Mines, Federal Bldg., Duluth, Minn.; Division of Lands and Minerals, Hibbing, Minn.
- Meuschke, J. L., Three preliminary aeromagnetic maps of eastern St. Louis County, Minn: Oct. 20, 1950. Minnesota Geological Survey, Pillsbury Hall, University of Minnesota, Minneapolis, Minn.; Bureau of Mines, Federal Building, Duluth, Minn.; Division of Lands and Minerals, Hibbing, Minn.
- Olson, J. C., Burns, R. E., and Hinrichs, E. N., The Dawley Canyon pegmatite area, Ruby Mountains, Elko County, Nev: 2 pp., 1 ill. Oct. 14, 1949. Nevada Bureau of Mines, Reno, Nev.

- Poiré, I. V. (translated, condensed, and emended by), Microrelief forms in the tundras of Priamurye, by V. B. Sochava: 5 pp., 1 ill. Sept. 16, 1949. U. S. Geological Survey, Building 12-B, Denver Federal Center, Denver, Colo.; Fairbanks and Juneau, Alaska. A limited number of copies of the condensation have been mimeographed, and as long as the supply lasts, copies can be had by writing the U. S. Geological Survey, Washington 25, D. C.
- Raup, H. M., and Denny, C. S., Photo-interpretation of vegetation along the southern part of the Alaska Highway; its use as an indicator of the kind of ground: 95 pp., ill. Mar. 21, 1950.
- Roberts, R. J., Geology of the Antler Peak quadrangle, Nevada: 108 pp., geol. map, 32 add'l pls., 3 figs. Aug. 22, 1949. Sterling Memorial Library, Yale University, New Haven, Conn.; Nevada Bureau of Mines, Reno, Nev.
- Ruppel, E. T., Geology of the Limestone Hills, Broadwater County, Mont: 99 pp., 7 pls. Aug. 8, 1950. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; University of Wyoming Library, Laramie, Wyo.; State Bureau of Mines and Geology, Butte, Mont.
- Schlocker, Julius, et al, Collected logs of borings in San Francisco area, a continued compilation of boring data: Dec. 27, 1950. * U. S. Geological Survey, 100 E. Old Mint Bldg., San Francisco, Calif.
- Siebethal, C. E., and Mesler, R. D., Geologic map of the Wyandotte quadrangle, northeastern Oklahoma and southwestern Missouri: Mar. 9, 1950. Missouri Geological Survey, Buehler Bldg., Rolla, Mo.; Oklahoma Geological Survey, Norman, Okla.
- Sims, P. K., Geology of the Dover magnetite district, N. J.: 224 pp., 10 pls., 6 figs. Dec. 12, 1950. Bureau of Mineral Research, Rutgers University, New Brunswick, N. J.; Library, Princeton University, Princeton, N. J.; State Department of Conservation and Development, Trenton, N. J.
- Snavely, P. D., Jr., Correlation between test holes in the Centralia-Chehalis coal district, Washington (chart): Oct. 10, 1950. U. S. Geological Survey, Room 623, Post Office Bldg., Portland, Oreg.; Division of Mines and Geology, Department of Conservation and Development, Olympia, Wash.
- Steven, T. A., Metamorphism and the origin of the granitic rocks in the Northgate district, Colorado: 112 pp., 2 maps, 3 figs. Dec. 18, 1950. U. S. Geological Survey, 230 New Customhouse, Denver, Colo.; Library, University of California, Los Angeles, Calif.
- Stoll, W. C., Mica deposits of Idaho, Latah County, and Mica deposits of Idaho and Montana: 28 maps, no text. Aug. 25, 1949. U. S. Geological Survey, South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, University of Idaho, Moscow, Idaho; State Bureau of Mines and Geology, Butte, Mont.
- Stose, G. W., Geologic maps of fossil localities in southeastern Pennsylvania: Jan. 18, 1949.
- Stose, G. W., and Stose, A. J., Geologic maps of fossil localities in southeastern Pennsylvania: 3 maps. May 4, 1949.
- Thompson, George A., Jr., Structural geology of the Terlingua quicksilver district, Texas: 93 pp., 1 map, 42 figs. May 31, 1950. Stanford University Library, Stanford, Calif.
- Thurston, W. R., Exploration of the Buckhorn Mica Pegmatite mine, Larimer County, Colo: 3 pp., 5 pls. July 12, 1950. U. S. Geological Survey Library, Building 2-B, Denver Federal Center, Denver, Colo.; State Mine Inspector, 220 State Office Bldg., Denver, Colo.
- Tracy, J. I., Jr., and Gordon, Mackenzie, Jr., Drill logs for part of Arkansas bauxite district: 400 logs. Jan. 7, 1949. Division of Geology, Arkansas Resources and Development Commission, State Capitol, Little Rock, Ark.
- Varnes, D. J., Preliminary report on ground-water movements at Helper, Carbon County, Utah: 20 pp., 9 ills. July 12, 1949. U. S. Geological Survey, Building 12-B, Denver Federal Center, Denver, Colo.
- Vhay, J. S., Preliminary map of the geology of the area south of Telluride, Colo: geol. map. Oct. 27, 1949. U. S. Geological Survey, 230 New Customhouse, Denver, Colo.; Public Library, Telluride, Colo.
- Willard, Max E., and Linehan, Rev. Daniel, Geologic interpretation of seismic data, Cheshire, Mass., relocation of Route 116, Stations 7-135: 44 pp., 4 pl. Feb. 15, 1950. Massachusetts Department of Public Works and the U. S. Geological Survey, 100 Nashua Street, Boston, Mass.
- Witkind, I. J., Preliminary geologic map of the Dagmar No. 4 quadrangle, Mont.-N. Dak: Mar. 15, 1949. U. S. Geological Survey, Building 12-B, Denver Federal Center, Denver, Colo.; State Geologist, University of North Dakota, Grand Forks, N. Dak.
- Zapp, A. D., Geology of the Andersonville bauxite district, Georgia: 7 pls. May 25, 1949. U. S. Geological Survey, Room 13, Post Office Bldg., Knoxville, Tenn.; Georgia Department of Mines, Mining and Geology, 425 State Capitol, Atlanta, Ga.; District Office, Soil Conservation Service, U. S. Department of Agriculture, Americus, Ga.
- Zietz, I., and Henderson, R. G., Aeromagnetic maps and second vertical derivative maps of Great Sitkin Island, Northern Adak Island, and part of northeastern Umnak Island, Alaska: 4 pp., 8 maps. Dec. 29, 1949. Naval Research, Navy Department, Geophysics Branch, Building T-3, Washington, D. C.

GEOLOGIC DIVISION - SUBJECT INDEX

	Page		Page
Antimony		Maps	
Utah.....	3	Alaska.....	6
Bauxite		Arizona.....	3
Arkansas.....	6	Arkansas.....	4
Cuba.....	2	Colorado.....	4, 6
Beach erosion		Gulf of Mexico.....	1
Massachusetts.....	2	Idaho.....	3
Borings		Indiana.....	3
California.....	6	Maine.....	4
Washington.....	6	Massachusetts.....	2
Coal		Massachusetts-Rhode Island.....	3
Alaska.....	2	Michigan.....	3
Copper		Minnesota.....	5
California.....	4	Montana.....	1
Michigan.....	3	Montana-North Dakota.....	6
Corundum		New York.....	2
Montana.....	2	Oklahoma-Missouri.....	6
Engineering geology		Pennsylvania.....	6
Foreign translations.....	2	South Dakota.....	1
Geology		Tennessee-North Carolina.....	4
Alaska.....	3	Utah.....	2, 3
Arizona.....	3	Metallic minerals	
Colorado.....	3	California.....	1
Georgia.....	6	Metamorphism	
Idaho.....	4	Colorado.....	6
Massachusetts.....	3	Mica	
Michigan.....	4	Colorado.....	6
Montana.....	4, 6	Idaho-Montana.....	6
Montana-Idaho.....	4	South Dakota.....	1
Nevada.....	1, 6	Minerals	
New Jersey.....	6	Idaho.....	3
New York.....	2	Molybdenum	
Texas.....	6	Washington.....	2, 3
West Virginia.....	3	Oil and gas	
Geophysics		Colorado.....	3
Massachusetts.....	4, 5, 6	Pegmatites	
Oregon.....	2	Nevada.....	4, 5
Granitic rocks		Petrology	
Colorado.....	6	Pennsylvania.....	4
Ground water		Rutile	
Utah.....	6	Arkansas.....	4
Lead		Sediments	
See also <u>zinc</u> (Colorado,		Maine.....	2
Mississippi Valley, Wisconsin)		Tundras	
California.....	5	Siberia.....	6
Colorado.....	4	Tungsten	
Mississippi Valley.....	4	Colorado.....	4
Washington.....	2	Vegetation	
Wisconsin.....	4	Alaska Highway.....	6
Limestone		Zinc	
Wyoming.....	3	See also <u>lead</u> (Colorado,	
		Mississippi Valley, Wisconsin)	
		Colorado.....	4
		Mississippi Valley.....	4
		Wisconsin.....	4

GEOLOGIC DIVISION - LOCATION INDEX

	Page		Page
Alaska		Massachusetts-Rhode Island	
Coal.....	2	Maps.....	3
Geology.....	3	Michigan	
Maps.....	6	Copper.....	3
Alaska Highway		Geology.....	4
Vegetation.....	6	Maps.....	3
Arizona		Minnesota	
Geology.....	3	Maps.....	5
Maps.....	3	Mississippi Valley	
Arkansas		Lead.....	4
Bauxite.....	6	Zinc.....	4
Maps.....	4	Montana	
Rutile.....	4	Corundum.....	2
California		Geology.....	4, 6
Borings.....	6	Maps.....	1
Copper.....	4	Montana-Idaho	
Lead.....	5	Geology.....	4
Metallic minerals.....	1	Montana-North Dakota	
Colorado		Map.....	6
Geology.....	3	Nevada	
Granitic rocks.....	6	Geology.....	1, 6
Lead.....	4	Pegmatites.....	4, 5
Maps.....	4, 6	New Jersey	
Metamorphism.....	6	Geology.....	6
Mica.....	6	New York	
Oil and gas.....	3	Geology.....	2
Tungsten.....	4	Maps.....	2
Zinc.....	4	Oklahoma-Missouri	
Cuba		Maps.....	6
Bauxite.....	2	Oregon	
Foreign translations		Geophysics.....	2
Engineering geology.....	2	Pennsylvania	
Georgia		Maps.....	6
Geology.....	6	Petrology.....	4
Gulf of Mexico		Siberia	
Maps.....	1	Tundras.....	6
Idaho		South Dakota	
Geology.....	4	Maps.....	1
Maps.....	3	Mica.....	1
Minerals.....	3	Tennessee-North Carolina	
Idaho-Montana		Maps.....	4
Mica.....	6	Texas	
Indiana		Geology.....	6
Maps.....	3	Utah	
Maine		Antimony.....	3
Maps.....	4	Ground water.....	6
Sediments.....	2	Maps.....	2, 3
Massachusetts		Washington	
Beach erosion.....	2	Borings.....	6
Geology.....	3	Lead.....	2
Geophysics.....	4, 5, 6	Molybdenum.....	2-3
Hydrography, Nantucket Harbor.....	2	West Virginia	
Maps.....	2	Geology.....	3
Proposed Channel, Nantucket Harbor.....	2	Wisconsin	
Shell fish productivity.....	2	Lead.....	4
		Zinc.....	4
		Wyoming	
		Limestone.....	3

WATER RESOURCES DIVISION MAPS AND REPORTS

- Akin, P. D., Some aspects of the development of ground water in the United States and in North Dakota: 5 pp., Sept. 26, 1950. c/o N. Dak. Geological Survey, University Station, Grand Forks, N. Dak.
- Ayer, G. R., A progress report on an investigation of the influence of reforestation on stream flow in State forests in central New York: 185 pp., Feb. 21, 1949. 526 Federal Bldg., Albany 1, N. Y.; c/o N. Y. City Board of Water Supply, Ellenville, N. Y.
- Berry, D. W., Ground-water data collected in Kansas on the Almena, Bostwick, Cedar Bluff, Glen Elder, Kanopolis, Webster, and Wilson Units in the Missouri River Basin: 188 pp., 12 figs., May 17, 1949. c/o University of Kansas, Lawrence, Kans.; 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Berry, D. W., Ground-water data collected in the Missouri River Basin Units in Kansas during 1948: 85 pp., 13 figs., Mar. 17, 1950. c/o University of Kansas, Lawrence, Kans.; 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Berry, D. W., Ground-water data collected in the Missouri River Basin Units in Kansas during 1949: 121 pp., 12 figs., Nov. 13, 1950. c/o University of Kansas, Lawrence, Kans.; 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Bjorklund, L. J., and Tavelli, J. A., Progress report on the ground-water resources of the Lower South Platte River Valley between Hardin, Colorado, and Paxton, Nebraska, with a section on the chemical quality of the ground water, by H. A. Swenson: 150 pp., 7 pls., 9 figs., June 15, 1949. 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.; Denver Federal Center, Denver, Colo.
- Brashears, M. L., Jr., Ground-water conditions at Levittown, Long Island, New York: 3 pp., Oct. 23, 1949. 230 Old Country Road, Mineola, L. I., N. Y.
- Brashears, M. L., Jr., Ground-water conditions in the vicinity of Portsmouth, New Hampshire, Feb. 9, 1942: (released from war file) Jan. 20, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Brashears, M. L., Jr., Possibilities of obtaining an additional water supply near Hingham, Massachusetts: 5 pp., Mar. 4, 1942 (released from war file Jan. 20, 1950). 927 P. O. Bldg., Boston 9, Mass., 230 Old Country Rd., Mineola, L. I., N. Y.
- Brashears, M. L., Jr., Hydrologic data for pumping test at Levittown, New York, Sept. 16-17, 1949: 2 pp., 2 maps, Jan. 20, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Brashears, M. L., Jr., The piezometric surface of the Lloyd sand member of the Raritan formation, Long Island, New York, in 1947: 3 pls., 1 map, 1 table, Feb. 18, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Brashears, M. L., Jr., Average daily withdrawals of water for public supply in Kings, Queens, and Nassau Counties, New York: 1 p., 2 figs., 2 tables, Sept. 26, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Brashears, M. L., Jr., Ground-water conditions at the Veterans Facility, Castle Point, New York: 5 pp., 1 fig., Sept. 26, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Brashears, M. L., Jr., Ground-water conditions in the vicinity of the Veterans Hospital, Castle Point, Dutchess County, New York: 12 pp., 1 fig., Sept. 26, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Brashears, M. L., Jr., Cooperative ground-water investigations in Massachusetts by the United States Geological Survey, 1938-50: 9 pp., 1 fig.; November 1950. 927 P. O. Bldg., Boston 9, Mass.; 230 Old Country Rd., Mineola, L. I., N. Y.
- Broadhurst, W. L., and Ellsworth, C. E., Supplementary report on surface-water and ground-water surveys, Nueces River Basin, Texas: 9 pp., Oct. 25, 1950. 302 W. 15th St., Austin, Tex.
- Brown, S. C., and Halpenny, L. C., Water-supply investigation at Lukachukai, Navajo Indian Reservation, Arizona: 8 pp., 1 fig., Mar. 14, 1949. P. O. Box 2270, Tucson, Ariz.
- Brown, S. C., Halpenny, L. C., and Whitcomb, H. A., Water-supply investigation at Navajo Mountain, Navajo Indian Reservation, San Juan County, Utah: 14 pp., 1 fig., Oct. 23, 1949; P. O. Box 2270, Tucson, Ariz.; 303 Federal Bldg., Salt Lake City 1, Utah.
- Busch, E. A., A list of references on the occurrence, availability, and character of ground water in the Missouri River Basin: 109 pp., November 1950. 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Cederstrom, D. J., Basic data on the results of test drilling in the Fairbanks area, Alaska, in the fall of 1948: 7 pp., January 1949. Office of City Engineer, Fairbanks, Alaska; P. O. Box 2659, Juneau, Alaska.
- Cederstrom, D. J., Wahrhaftig, Clyde, and Barnes, F. F., Ground water in the vicinity of Healy and Homer, Alaska: 5 pp., 1 map, May 4, 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Commons, C. G., Nomograph for solution of non-equilibrium formula: Dec. 7, 1942 (released from war file Jan. 20, 1950). 302 W. 15th St., Austin, Tex.
- Conover, C. S., Water levels in observation wells in New Mexico in January and February 1949, with a discussion of changes in level from 1948-49: 10 maps, Dec. 20, 1949. P. O. Box 443, Albuquerque, N. Mex.
- Conover, C. S., Ground-water conditions in the Rincon and Mesilla Valleys and adjacent areas in New Mexico

- co: 316 pp., 11 pls., 12 figs., Oct. 30, 1950.
P. O. Box 443, Albuquerque, N. Mex.
- Cromack, G. H., Water wells in Linn district, Hidalgo County, Texas: 7 pp., 1 fig., June 15, 1949.
302 W. 15th St., Austin 14, Tex.
- Cushing, E. M., Letter to Maj. J. H. Allen, President, Memphis Light, Gas, and Water Division, transmitting copies of the electric logs and copies of the brief condensed logs for 3 test holes in western Tennessee: Dec. 27, 1949. Memphis General Depot, U. S. Army, Memphis 2, Tenn.
- Cushman, R. V., Bibliography of publications relating to ground water in Connecticut: 12 pp., 1 map, November 1950. P. O. Bldg., Middletown, Conn.; 230 Old Country Rd., Mineola, L. I., N. Y.
- Daniels, Eugene, Memorandum on pumping tests at Jefferson Junction, Wisconsin: 3 pp., 2 graphs, Mar. 14, 1949. Science Hall, University of Wisconsin, Madison 6, Wis.
- Dennis, P. E., Water-level measurements in an observation well found to be useful in determining soil-moisture conditions: 1 p., Sept. 15, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Dennis, P. E., Geology and ground-water hydrology of the Lake Hefner area in Oklahoma County, Oklahoma: 19 pp., 2 figs., November 1950. c/o Okla. Geological Survey, Norman, Okla.
- Dover, T. B., Mineral constituents in water and their significance: 6 pp., Nov. 20, 1950. 306 Chemistry Bldg., Oklahoma A & M College, Stillwater, Okla.
- Eakin, T. E., and Robinson, T. W., Ground-water conditions in Whiskey Flat, Mineral County, Nevada: 6 pp., Aug. 26, 1950. P. O. Box 327, Carson City, Nev.
- Eddy, G. E., and Ferris, J. G., Relation of ground water to stream flow at Battle Creek, Michigan: 2 pp., November 1950. 611 Capitol Savings and Loan Bldg., Lansing 68, Mich.
- Ferris, J. G., Memorandum on ground-water conditions at Terre Haute, Indiana, October 1944: (released from war file) July 7, 1949. Conservation Dept. Bldg., 311 W. Washington St., Indianapolis 4, Ind.
- Ferris, J. G., and Klaer, F. H., Jr., The yield of the well field of the Vigo Ordnance Plant, near Terre Haute, Indiana: October 1944 (released from war file, Oct. 23, 1949). Conservation Dept. Bldg., 311 W. Washington St., Indianapolis 4, Ind.
- Ferris, J. G., Probable effects on ground-water resources from construction of the proposed Grand River cut-off channel west of Lansing, Michigan: 6 pp., November 1950. 611 Capitol Savings and Loan Bldg., Lansing 68, Mich.
- Fiedler, A. G., The logging and sampling of hydraulic rotary-drilled test holes: 4 pp., Apr. 18, 1949. Room 2207, General Services Bldg., Washington, D. C.
- Fishel, V. C., Ground water in southwestern Kansas: 13 pp., 4 figs., Oct. 23, 1949. c/o University of Kansas, Lawrence, Kans.
- Garrett, A. A., Memorandum on present status of the saline front, to supplement progress report on water supply for the Point Mugu Naval Base, Ventura County, California, by J. F. Poland: 4 pp., 1 fig., Apr. 18, 1949. 2520 Marconi Ave., Sacramento, Calif.; 221 Redondo Ave., Long Beach 3, Calif.
- Garrett, A. A., Status of salt-water contamination in the coastal part of Orange County, California, as of 1948-49: 36 pp., 7 pls., Sept. 15, 1949. 2520 Marconi Ave., Sacramento, Calif.; 221 Redondo Ave., Long Beach 3, Calif.
- Garrett, A. A., and Thomasson, H. G., Jr., Ground-water outflow from the Chino Basin, California, and the controlling geologic and hydrologic conditions: 143 pp., 19 pls., Sept. 15, 1949. 2520 Marconi Ave., Sacramento, Calif.
- George, W. O., Ground water in the Linn district, north-central Hidalgo County, Texas: 8 pp., 1 fig., June 15, 1949. 302 W. 15th St., Austin 14, Tex.
- Graham, J. B., and Stephenson, R. C., Ground-water supply at the Letterkenny Ordnance Depot, Chambersburg, Pennsylvania: 14 pp., 1 map, Dec. 20, 1949. c/o Phila. Academy of Natural Science, 19th and Parkway, Philadelphia 3, Pa.
- Graham, J. B., Contour map showing altitude of bed-rock surface in southern Philadelphia, Pennsylvania: Oct. 25, 1950. c/o Philadelphia Academy of Natural Science, 19th & Parkway, Philadelphia 3, Pa.
- Griggs, R. L., Memorandum on the availability of ground water at the Flemington, West Virginia, High School: 5 pp., July 15, 1949. P. O. Box 854, Morgantown, W. Va.
- Guyton, W. F., Estimated use of ground water in the United States-1945: 5 pp., 7 figs. (tables included in Circular 117 on file in all offices of Water Resources Division), Jan. 20, 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Hains, C. F., Van Sickle, D. M., and Ryals, W. G., Range water resources of a part of the Elko Grazing District, Elko County, Nevada: 84 pp., 2 pls., 6 figs., 2 tables, Mar. 11, 1949. 429-F P. O. and Court House Bldg., Los Angeles, Calif.; State Engineer's Office, Carson City, Nev.; 303 Federal Bldg., Salt Lake City, Utah.
- Halpenny, L. C., and Brown, S. C., Water-supply investigation of Fort Defiance area, Navajo Indian Reservation, Apache County, Arizona, with a section on quality of water by J. D. Hem: 12 pp., 2 pls., Mar. 8, 1949. P. O. Box 2270, Tucson, Ariz.
- Halpenny, L. C., and Whitcomb, H. A., Water-supply investigation at Baca School, near Prewitt, McKinley County, New Mexico: 16 pp., 1 pl., Apr. 4, 1949. P. O. Box 443, Albuquerque, N. Mex.; P. O. Box 2270, Tucson, Ariz.

- Halpenny, L. C., and Whitcomb, H. A., Memorandum on status of water-supply investigation of Sawmill area, Navajo Indian Reservation, Apache County, Arizona: 4 pp., Apr. 7, 1949. P. O. Box 2270, Tucson, Ariz.
- Halpenny, L. C., and Whitcomb, H. A., Water-supply investigation at Thoreau, McKinley County, New Mexico: 15 pp., 1 pl., June 15, 1949. P. O. Box 443, Albuquerque, N. Mex.; P. O. Box 2270, Tucson, Ariz.
- Halpenny, L. C., and Whitcomb, H. A., Water-supply investigation at Mexican Springs, Navajo Indian Reservation, McKinley County, New Mexico: 21 pp., 1 pl., June 15, 1949. P. O. Box 443, Albuquerque, N. Mex.; P. O. Box 2270, Tucson, Ariz.
- Halpenny, L. C., Harshbarger, J. W., and Hem, J. D., Water-supply investigation of Sanastee area, Navajo Indian Reservation, San Juan County, New Mexico: 26 pp., 1 pl., 2 figs., Sept. 26, 1950. P. O. Box 2270, Tucson, Ariz.; P. O. Box 443, Albuquerque, N. Mex.
- Halpenny, L. C., Memorandum on results of well drilling at Chinle, Navajo Indian Reservation, Apache County, Arizona: 3 pp., Sept. 27, 1949. P. O. Box 2270, Tucson, Ariz.
- Halpenny, L. C., Memorandum on results of well drilling at Kayenta, Navajo Indian Reservation, Navajo County, Arizona: 4 pp., Dec. 20, 1949. P. O. Box 2270, Tucson, Ariz.
- Havelka, D. E., Delivery of water in the Brazos River from Possum Kingdom Reservoir to Richmond, Texas, during August and September 1948: 3 pp., 2 pls., Dec. 13, 1950. 302 W. 15th St., Austin, Tex.
- Hem, J. D., and Hughes, L. S., Quality of water in Tucumcari irrigation project, New Mexico: 14 pp., 4 tables, Feb. 7, 1949. 723 N. 2nd St., Albuquerque, N. Mex.
- Hembree, C. H., Swenson, H. A., Boyer, M. C., and Melin, K. R., Progress report on investigation of fluvial sediments and water quality in Bighorn Drainage Basin, Wyoming and Montana: 163 pp., 24 pls., 46 figs., 20 tables, Sept. 8, 1949. 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.; 303 Federal Bldg., Salt Lake City, Utah.
- Hendrickson, G. E., Memorandum on trip to site of proposed dam north of Clovis, New Mexico: 2 pp., May 17, 1949. P. O. Box 443, Albuquerque, N. Mex.
- Hershey, H. G., Some aspects of the ground-water future in Iowa: 23 pp., Aug. 26, 1950. Geology Annex, Iowa State University, Iowa City, Iowa.
- Irelan, Burdge, under direction of, Chemical composition of Texas surface waters, 1949: 67 pp., 1950. 302 W. 15th St., Austin, Tex.
- Irelan, Burdge, Weaver, D. E., and Arvett, J. R., Chemical composition of Texas surface waters, 1948: 58 pp., June 17, 1949. 302 W. 15th St., Austin, Tex.
- Jacob, C. E., Report on estimated capacity of the first ten water-supply wells completed in the Conneaut Marsh-French Creek area for the Keystone Ordnance Works, near Geneva, Pennsylvania, May 1944: 28 pp., 9 figs., (released from war file) Mar. 14, 1949. c/o Philadelphia Academy of Natural Science, 19th and Parkway, Philadelphia 3, Pa.
- Jones, P. H., Memorandum on ground-water conditions in the Huachipato-Talcahuano area near Concepcion, Chile: 5 pp., 1 pl., 5 figs., Aug. 26, 1950. Box 8516, University Station, Baton Rouge, La.
- Klaer, F. H., Jr., Ground-water levels in Indiana: 14 pp., 10 pls., Aug. 16, 1949. Conservation Dept. Bldg., 311 W. Washington St., Indianapolis 4, Ind.
- LaMoreaux, P. E., Outline of occurrence of ground water in Alabama: 12 pp., 1 fig., June 15, 1949. P. O. Box 2033, Tuscaloosa, Ala.
- Lang, J. W., Memorandum on ground-water conditions in the vicinity of the South Houston oil field and the need for protecting the fresh-water sands from contamination: 4 pp., June 15, 1949. 302 W. 15th St., Austin, Tex.; 712 City Hall, Houston, Tex.
- Lang, J. W., Decline of pumping levels in Houston municipal wells, 1939-49: 1 p., 1 table, Nov. 4, 1949. 302 W. 15th St., Austin, Tex.; 712 City Hall, Houston, Tex.
- LeFever, F. L., Martin, R. O. R., Bennett, R. R., and Otton, E. G., Water resources of the Cumberland area, Maryland-West Virginia: 18 pp., Oct. 19, 1950. Engineering Bldg., College Park, Md.; 103 Latrobe Hall, Johns Hopkins University, Baltimore 18, Md.
- Livingston, Penn, and Hale, Wm., Investigation of the deep well in Mesa Verde National Park, Colorado: 15 pp., 1 pl., 1 fig., Mar. 14, 1949. Denver Federal Center, Denver, Colo.
- Lohman, S. W., The relation of ground water to irrigation: 9 pp., Oct. 25, 1950. Denver Federal Center, Denver, Colo.
- Luszczynski, N. J., Release of data showing recovery of ground-water levels from June 1947 to December 1948 in Brooklyn, New York: 2 pp., 13 figs., July 15, 1949. 230 Old Country Rd., Mineola, L. I., N. Y.
- Luszczynski, N. J., Salinity of ground water at sampling wells located in southeastern Nassau County, Long Island, New York: 3 pp., Jan. 20, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Luszczynski, N. J., Withdrawal of ground water and pond water on Long Island from 1904 to 1949: 3 pp., 1 fig., Mar. 17, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Luszczynski, N. J., Piezometric levels from 1948 through 1950 for wells screened in the Lloyd sand member of the Raritan formation on Long Island, New York: 10 pp., November 1950. 230 Old Country Rd., Mineola, L. I., N. Y.

- Mann, J. F., Memorandum on deeper sources of water, to supplement progress report on water supply for the Point Mugu Naval Base, Ventura County, California, by J. F. Poland; 2 pp., Apr. 18, 1949. 2520 Marconi Ave., Sacramento, Calif.
- Meyer, R. R., Memorandum on pumping tests on new public-supply wells in Salisbury, Maryland: 6 pp., 5 figs., Aug. 16, 1949. 103 Latrobe Hall, Johns Hopkins University, Baltimore 18, Md.; Brown St., Salisbury, Md.
- Morgan, A. M., Progress report on the geology and ground-water resources of the Cheyenne area, Wyoming: 55 pp., 7 pls., Feb. 25, 1949. 2002 Capitol Ave., Cheyenne, Wyo.
- Morris, D. A., and Durum, W. H., Progress report on the geology and ground-water hydrology of the Riverton Irrigation Project, Wyoming: 108 pp., 4 pls., 12 figs., Nov. 27, 1950. P. O. Box 948, Riverton, Wyo.; 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Nelson, W. B., and Lofgren, B. E., Progress report on ground-water investigation in Ashley Valley, Uintah County, Utah: 5 pp., 3 figs., Aug. 26, 1950. 303 Federal Bldg., Salt Lake City, Utah.
- Newcomb, R. C., Sceva, J. E., and Stromme, Olaf, Ground-water resources of western Whatcom County, Washington: 134 pp., 11 pls., Jan. 20, 1950. 2128 S. 38th St., Tacoma, Wash.; P. O. Box 3418, Portland, Oreg.
- Overbeck, R. M., Ground-water resources of the Mt. Savage area, Maryland: 128 pp., 1 fig., Oct. 25, 1950. 103 Latrobe Hall, Johns Hopkins University, Baltimore 18, Md.
- Paulsen, C. G., Ground-water problems in the United States: 13 pp., 10 figs., Oct. 23, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Paulsen, C. G., and Hastings, W. W., Water supplies for industry: 15 pp., 4 figs., Jan. 4, 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Paulsen, C. G., Water supply of the United States: 4 pp., Mar. 25, 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Paulsen, C. G., Water-resources investigations in the United States: 5 pp., Mar. 25, 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Phoenix, D. A., Geology of Clear Creek dam site, Ormsby and Douglas Counties, Nevada: 5 pp., 1 fig., Feb. 15, 1949. P. O. Box 327, Carson City, Nev.
- Phoenix, D. A., Ground-water conditions in the vicinity of Tonopah, Nye County, Nevada: 12 pp., 1 pl., Mar. 14, 1949. P. O. Box 327, Carson City, Nev.
- Phoenix, D. A., Results and description of test drilling in Argenta Swamp near Battle Mountain, Nevada: 11 pp., Oct. 23, 1949. P. O. Box 327, Carson City, Nev.
- Phoenix, D. A., Ground-water in the Austin area, Lander County, Nevada: 21 pp., Jan. 20, 1950. P. O. Box 327, Carson City, Nev.
- Poland, J. F., Progress report on water supply for the Point Mugu Naval Base, Ventura County, California: 45 pp., 7 pls., 2 figs., Apr. 18, 1949. 2520 Marconi Ave., Sacramento, Calif.; 221 Redondo Ave., Long Beach 3, Calif.
- Poland, J. F., New well for water supply at Veterans Administration Hospital, Livermore, California: 4 pp., 3 figs., Oct. 23, 1949. 2520 Marconi Ave., Sacramento, Calif.
- Richardson, R. M., List of references pertaining to electrical well logging: 29 pp., March 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Roberts, C. M., Ground-water levels and chloride-content data for townships of Riverhead and Southold, Suffolk County, New York: 16 pp., 6 figs., Apr. 18, 1949. 230 Old Country Rd., Mineola, L. I., N. Y.
- Roberts, C. M., Chloride content of water from wells screened in the Lloyd sand member of the Raritan formation on Long Island, New York: 19 pp., Jan. 23, 1950. 230 Old Country Rd., Mineola, L. I., N. Y.
- Roberts, C. M., Ground-water reconnaissance in the Kittery-Eliot-South Berwick area, Maine, and the Dover-Rollinsford-Somersworth area, New Hampshire: 12 pp., 1 fig., Feb. 3, 1945 (released from war file Mar. 17, 1950). 230 Old Country Rd., Mineola, L. I., N. Y.
- Rorabough, M. I., Memorandum on multiple-step drawdown tests, Southwest well field, Houston, Texas, February 1949: 16 pp., 4 figs., Oct. 23, 1949. 302 W. 15th St., Austin, Tex.; 712 City Hall, Houston, Tex.; 531 Federal Bldg., Louisville 2, Ky.
- Sayre, A. N., Water resources of the United States: 10 pp., Mar. 17, 1950. Room 2207, General Services Bldg., Washington, D. C.
- Saunders, Margaret M., Daniel, Jane, and Thompson, Frances G., Bibliography of technical reports, articles, and memoranda published or otherwise released by the Ground Water Branch during the fiscal year ended June 30, 1948: 14 pp., June 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Saunders, Margaret M., Daniel, Jane, and Thompson, Frances G., Bibliography of technical reports, articles, and memoranda published or otherwise released by the Ground Water Branch during the fiscal year ended June 30, 1949: 18 pp., November 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Sceva, J. E., Watkins, F. A., Jr., and Schlax, W. N., Jr., Geology and ground-water resources of the Wenas Creek Valley, Yakima County, Washington: 81 pp., 10 pls., Aug. 16, 1949. 2128 S. 38th St., Tacoma, Wash., P. O. Box 3418, Portland, Oreg.

- Serr, E. F., III, Progress report—investigation of fluvial sediments, Snake River near Burge, North Dakota: 13 pp., Dec. 8, 1949. 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Sinnott, Allen, Additional water wells at Fort Belvoir, Virginia: 7 pp., 2 pls., Oct. 25, 1950. P. O. Box 1836, University Station, Charlottesville, Va.
- Siple, G. E., Ground-water investigations in the Savannah area, Georgia - South Carolina: 5 pp., 6 pp. of tables, Mar. 14, 1949. 425 State Capitol, Atlanta 3, Ga.
- Stallman, R. W., Tables of values of $W(u)$ for several values of u_p and K : 6 pp., Aug. 26, 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Sundstrom, R. W., Ground water in the vicinity of Amarillo and Lubbock, Texas: 19 pp., 6 figs., June 15, 1949. 302 W. 15th St., Austin, Tex.
- Swenson, H. A., Progress report—Chemical character of surface waters in the Devils Lake Basin, North Dakota: 46 pp., 4 pls., 19 figs., 15 tables, Oct. 21, 1950. 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Taylor, G. C., Jr., A ground-water reconnaissance of the Jacmel-Meyer Bench, Haiti: 13 pp., 1 fig., July 15, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Taylor, G. C., Jr., Ground water in Herrera Province and adjoining areas in Cocle, Los Santos, and Veraguas Provinces, Panama: 20 pp., 1 pl., 2 figs., Oct. 23, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Taylor, G. C., Jr., and Lemoine, R. C., Ground water in the Archaie Plain, Haiti: 17 pp., 1 fig., July 15, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Taylor, G. C., Jr., and Lemoine, R. C., Ground-water conditions in the Plaine des Moustiques, Haiti: 5 pp., 1 fig., July 15, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Taylor, G. C., Jr., and Lemoine, R. C., A ground-water reconnaissance in the Pine Forest region, Haiti: 6 pp., Oct. 23, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Taylor, G. C., Jr., and Lemoine, R. C., Ground water in the Cul-de-Sac Plain, Haiti: 60 pp., 1 pl., 6 tables, Oct. 23, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Taylor, G. C., Jr., and Lemoine, R. C., Ground-water in the Gonaives Plain, Haiti: 23 pp. plus well data, 1 fig., Oct. 23, 1949. Room 2207, General Services Bldg., Washington 25, D. C.
- Theis, C. V., Water levels in observation wells in Tatum-Lovington-Hobbs area, Lea County, New Mexico: 6 pp., May 17, 1949. P. O. Box 443, Albuquerque, N. Mex.
- Thomas, H. E., Statement on the hydrology of pre-Pleistocene (?) aquifers, from a chapter on water resources to be included in a Geological Survey report on the geology of North Utah Valley: 11 pp., Mar. 14, 1949. 303 Federal Bldg., Salt Lake City 1, Utah.
- Thomas, H. E., Hydrologic reconnaissance of the Green River in Utah and Colorado: 92 pp., 1 pl., 4 figs., Oct. 25, 1950. 303 Federal Bldg., Salt Lake City, Utah.
- Trainer, Frank, Tables of well records in the Palmer-Wasilla region of the Matanuska Valley, Alaska: Apr. 26, 1950. Room 2207, General Services Bldg., Washington 25, D. C.
- Troxell, H. C., Burgess, C. E., and Warren, M. A., Progress report on the cooperative investigation of springs and stream flow in the Tecolote Tunnel area of Santa Barbara County, California: 18 pp., 2 figs., Aug. 8, 1949. 2520 Marconi Ave., Sacramento, Calif.; 423 Balboa Bldg., 735 State St., Santa Barbara, Calif.
- Troxell, H. C., and Burgess, C. E., Second progress report on the cooperative investigation of springs and stream flow in the Tecolote Tunnel area of Santa Barbara County, California: 156 pp., 1 pl., 3 figs., Aug. 28, 1950. 423 Balboa Bldg., Santa Barbara, Calif.; 429 P. O. and Court House Bldg., Los Angeles, Calif.
- Troxell, H. C., Poland, J. F., and others, Some aspects of the water supply in the South Coastal Basin, California: 14 pp., 5 pls., (to be issued as Circular 105), Dec. 1, 1950. 429 P. O. and Court House Bldg., Los Angeles, Calif.
- Turner, S. F., Ground water, in Moore, B. N., Tolman, C. F., Jr., Butler, B. S., Hernen, R. M., Geology of the Tucson quadrangle, Arizona: 15 pp., May 26, 1949. P. O. Box 2270, Tucson, Ariz.
- Turner, S. F., and others, Pumpage and ground-water levels in Arizona in 1948: Aug. 12, 1949; P. O. Box 2270, Tucson, Ariz.
- Van Tuyl, D. W., Memorandum on pumping test at Ambridge, Pennsylvania: 11 pp., 3 figs., Sept. 26, 1950. c/o Philadelphia Academy of Natural Science, 19th and Parkway, Philadelphia 3, Pa.
- Vorhis, R. C., Progress report on the ground-water hydrology of the Medicine Lake-Grenora area, Missouri-Souris Irrigation Project, Montana and North Dakota: 88 pp., 4 pls., 1 fig., Jan. 20, 1950. P. O. Box 750, Bismarck, N. Dak.; c/o N. Dak. Geological Survey, University Station, Grand Forks, N. Dak., P. O. Box 839, Billings, Mont.
- Waring, G. A., Progress report on the geology and ground-water hydrology of the southeastern part of the Oahe-James River area, South Dakota: 192 pp., 2 vols., 4 pls., 9 figs., June 15, 1949. 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.; P. O. Box 750, Bismarck, N. Dak.

- Waring, G. A., and Bush, W. H., Progress report on the geology and ground-water hydrology of part of the Oahe Unit, James River Division, South Dakota: 272 pp., 5 pls., 10 figs., Mar. 17, 1950. 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.; P. O. Box 750, Bismarck, N. Dak.
- Waring, G. A., and LaRocque, G. A., Jr., Progress report on the geology and ground-water hydrology of the Lower Missouri-Souris Unit; Part 1, Crosby-Mohall area, North Dakota: 560 pp., 11 pls., 5 figs., Oct. 23, 1949: P. O. Box 750, Bismarck, N. Dak.; c/o N. Dak. Geological Survey, University Station, Grand Forks, N. Dak.; 510 Rudge-Guenzel Bldg., Lincoln 8, Nebr.
- Warren, M. A., Water levels in observation wells in Santa Barbara County, California, in 1948: 57 pp., Mar. 17, 1950. 2520 Marconi Ave., Sacramento, Calif.; 423 Balboa Bldg., 735 State St., Santa Barbara, Calif.
- Whitcomb, H. A., Water-supply investigation at Torreon, Sandoval County, New Mexico: 14 pp., 1 pl., Mar. 16, 1949. P. O. Box 443, Albuquerque, N. Mex.; P. O. Box 2270, Tucson, Ariz.
- Whitcomb, H. A., Water-supply investigation of Whitehorse Lake area, McKinley County, New Mexico: 12 pp., Mar. 16, 1949. P. O. Box 443, Albuquerque, N. Mex.; P. O. Box 2270, Tucson, Ariz.
- Whitcomb, H. A., Geologic reconnaissance in vicinity of water well 5 miles south of Gallup, McKinley County, New Mexico: 3 pp., Aug. 26, 1950. P. O. Box 443, Albuquerque, N. Mex.; P. O. Box 2270, Tucson, Ariz.
- Whitcomb, H. A., and Halpenny, L. C., Memorandum on location of proposed domestic well about 1 mile west of Tse Bonita Trading Post, Navajo Indian Reservation, Apache County, Arizona: 2 pp., May 17, 1949. P. O. Box 2270, Tucson, Ariz.
- Whitcomb, H. A., and Halpenny, L. C., Water-supply investigations of the Buell Park-Sawmill area, Navajo Indian Reservation, Apache County, Arizona, with a section on quality of water by J. D. Hem: 26 pp., 1 pl., Sept. 26, 1950. P. O. Box 2270, Tucson, Ariz.
- Whitcomb, H. A., and Repenning, C. A., Memorandum on geologic reconnaissance of six sites for water wells, western part of Navajo Indian Reservation, Coconino and Navajo Counties, Arizona: 15 pp., 1 fig., Aug. 26, 1950. P. O. Box 2270, Tucson, Ariz.
- Whitcomb, H. A., and Repenning, C. A., Memorandum on location of proposed well 15 miles north of Crown Point, McKinley County, New Mexico: 5 pp., Aug. 26, 1950. P. O. Box 443, Albuquerque, N. Mex.; P. O. Box 2270, Tucson, Ariz.
- Whitcomb, H. A., and Repenning, C. A., Memorandum on possibility of developing ground water for irrigation along Toc Chinlin Wash near Emmanuel Mission, Navajo Indian Reservation, Apache County, Arizona: 3 pp., Aug. 26, 1950. P. O. Box 2270, Tucson, Ariz.
- Williams, C. C., Ground-water in the Newcastle area, Wyoming: 18 pp., Feb. 25, 1949. 2002 Capitol Ave., Cheyenne, Wyo.
- Wilson, H. D., Jr., Water levels in observation wells in Santa Barbara County, California, in 1949: 53 pp., 1 pl., Feb. 23, 1950. 2520 Marconi Ave., Sacramento, Calif.; 423 Balboa Bldg., 735 State St., Santa Barbara, Calif.
- Worts, G. F., Jr., and others, Progress report on the ground-water investigation in Solano County, California: 50 pp., 7 pls., June 8, 1950. 2520 Marconi Ave., Sacramento, Calif.

WATER RESOURCES DIVISION - SUBJECT INDEX

	Page		Page
Bibliography		Ground water-stream flow	
United States.....	9, 10, 12	Michigan.....	10
Chloride		Ground water supply	
New York.....	12	Pennsylvania.....	10
Dam sites		Maps	
New Mexico.....	11	Pennsylvania.....	10
Delivery of water		Nonequilibrium formula.....	9
Texas.....	11	Piezometric levels	
Domestic well		New York.....	11
Arizona.....	14	Public-supply wells	
Drawdown tests		Maryland.....	12
Texas.....	12	Pumpage	
Fluvial sediments		Arizona.....	13
North Dakota.....	13	Pumping levels	
Wyoming-Montana.....	11	Texas.....	11
Geology		Pumping tests	
Arizona.....	13	Pennsylvania.....	13
Nevada.....	12	Wisconsin.....	10
New Mexico.....	14	Quality of water	
North Dakota.....	14	New Mexico.....	11
Oklahoma.....	10	Salt water contamination	
South Dakota.....	13, 14	California.....	10
Washington.....	12	Stream flow	
Wyoming.....	12	California.....	13
Ground water		New York.....	9
Alabama.....	11	Surface waters	
Alaska.....	9	North Dakota.....	13
Arizona.....	13	Texas.....	9, 11
California.....	10, 14	Tables of value of W(u).....	13
Chile.....	11	Test drilling	
Colorado.....	11	Alaska.....	9
Colorado-Nebraska.....	9	Nevada.....	12
Connecticut.....	10	Water levels	
Georgia-South Carolina.....	10	California.....	14
Haiti.....	13	New Mexico.....	9, 13
Indiana.....	10, 11	Water, quality	
Iowa.....	11	Wyoming-Montana.....	11
Kansas.....	10	Water resources	
Maine.....	12	Maryland-West Virginia.....	11
Maryland.....	12	Nevada.....	10
Massachusetts.....	9	United States.....	12
Michigan.....	10	Water Supply	
Missouri River Basin.....	9	Arizona.....	9, 10, 11, 14
Nevada.....	10, 12	California.....	12, 13
New Hampshire.....	9	Industry.....	12
New Mexico.....	9-10	Massachusetts.....	9
New York.....	9	New Mexico.....	10, 11, 14
North Dakota.....	9	Utah.....	9
Panama.....	13	United States.....	12
Texas.....	9, 10, 11, 13	Water supply wells	
United States.....	9, 10, 12	Pennsylvania.....	11
Utah.....	12, 13	Water wells	
Utah-Colorado.....	13	Arizona.....	14
Washington.....	12	Texas.....	10
West Virginia.....	10	Virginia.....	13
Wyoming.....	14	Well drilling	
See also bibliography		Arizona.....	11
Ground-water hydrology		Well records	
Montana-North Dakota.....	13	Alaska.....	13
North Dakota.....	14	Tennessee.....	10
Oklahoma.....	10	Well sites	
South Dakota.....	13, 14	Arizona.....	14
Ground-water levels		New Mexico.....	14
Arizona.....	13	Withdrawals of water	
New York.....	11, 12	New York.....	9
Ground-water resources		Yield	
Washington.....	12	Indiana.....	10
Wyoming.....	12		

WATER RESOURCES DIVISION - LOCATION INDEX

	Page		Page
Alabama		New Mexico (cont.)	
Ground water.....	11	Ground water.....	9, 10
Alaska		Quality of water.....	11
Ground water.....	9	Water levels.....	9, 13
Test drilling.....	9	Water supply.....	10, 11, 14
Well records.....	13	Well sites.....	14
Arizona		New York	
Domestic well.....	14	Chloride.....	12
Geology.....	13	Ground water.....	9
Ground water.....	13	Ground-water levels.....	11, 12
Ground-water levels.....	13	Piezometric levels.....	11
Pumpage.....	13	Stream flow.....	9
Water supply.....	9, 10, 11, 14	Withdrawals of water.....	9
Water wells.....	14	North Dakota	
Well drilling.....	11	Fluvial sediments.....	13
Well sites.....	14	Geology.....	14
California		Ground water.....	9
Ground water.....	10, 14	Ground-water hydrology.....	14
Salt-water contamination.....	10	Surface waters.....	13
Stream flow.....	13	Oklahoma	
Water levels.....	14	Geology.....	10
Water supply.....	12, 13	Ground-water hydrology.....	10
Chile		Panama	
Ground water.....	11	Ground water.....	13
Colorado		Pennsylvania	
Ground water.....	11	Ground-water supply.....	10
Colorado-Nebraska		Map.....	10
Ground water.....	9	Pumping test.....	13
Connecticut		Water-supply wells.....	11
Ground water.....	10	South Dakota	
Georgia-South Carolina		Geology.....	13, 14
Ground water.....	13	Ground-water hydrology.....	13, 14
Haiti		Tennessee	
Ground water.....	13	Well records.....	10
Indiana		Texas	
Ground water.....	10, 11	Delivery of water.....	11
Yield.....	10	Drawdown tests.....	12
Iowa		Ground water.....	9, 10, 11, 13
Ground water.....	11	Pumping levels.....	11
Kansas		Surface water.....	9, 11
Ground water.....	10	Water wells.....	11
Maine		United States	
Ground water.....	12	Ground water.....	9, 10, 12
Maryland		Water resources.....	12
Ground water.....	12	See also <u>bibliography</u>	
Public-supply wells.....	12	Utah	
Maryland-West Virginia		Ground water.....	12
Water resources.....	11	Water supply.....	9
Massachusetts		Utah-Colorado	
Ground water.....	9	Ground water.....	13
Water supply.....	9	Virginia	
Michigan		Water wells.....	13
Ground water.....	10	Washington	
Ground water stream flow.....	10	Geology.....	12
Missouri River Basin		Ground water.....	12
Ground water.....	9	Ground-water resources.....	12
Montana-North Dakota		West Virginia	
Ground-water hydrology.....	13	Ground water.....	10
Nevada		Wisconsin	
Geology.....	12	Pumping tests.....	10
Ground water.....	10, 12	Wyoming	
Test drilling.....	12	Geology.....	12
Water resources.....	10	Ground water.....	14
New Hampshire		Ground-water resources.....	12
Ground water.....	9	Wyoming-Montana	
New Mexico		Fluvial sediments.....	11
Dam sites.....	11	Water, quality.....	11
Geology.....	14		

CONSERVATION DIVISION MAPS AND REPORTS

- Johnson, A., Preliminary report on water power resources of Power Creek near Cordova, Alaska: 37 pp., April 21, 1949. 410 Federal Bldg., Tacoma, Wash.; Juneau, Alaska.
- Johnson, A., Reconnaissance of Lake Chackachamna, Alaska: 12 pp., March 16, 1950. 410 Federal Bldg., Tacoma, Wash.; Juneau, Alaska.
- Johnson, F. A., Report on water power possibilities of Lower Trinity River, California: 64 pp., October 21, 1949. 2520 Marconi Ave., Sacramento, Calif.; 702 Appraisers Bldg., San Francisco, Calif.
- Lawrence, F. F., Preliminary report on water power resources of Little Susitna River and Cottonwood Creek, Alaska: 24 pp., May 17, 1949. 410 Federal Bldg., Tacoma, Wash.; Juneau, Alaska.
- Lawrence, F. F., Water power resources of Scenery Creek near Petersburg, Alaska: 32 pp., July 6, 1950. 410 Federal Bldg., Tacoma, Wash.; Juneau, Alaska.
- Map of Eagle River, Alaska, 15 miles from Anchorage via Glen Highway and two dam sites: 1 plan sheet, July 24, 1950. 410 Federal Bldg., Tacoma, Wash.; Juneau, Alaska.
- Map of Little Missouri River from Medora to Marmath: 6 plan sheets, July 28, 1950. Bldg. T2, Denver Federal Center, Denver, Colo.
- Map of Powder River, from mouth to Mile 13, Montana: 1 plan sheet, July 24, 1950. Bldg. T2, Denver Federal Center, Denver, Colo.
- Map of Red River and tributaries, New Mexico: 2 plan sheets, 1 profile sheet, February 27, 1950. Bldg. T2, Denver Federal Center, Denver, Colo.
- New map of Rondowa reservoir site, and dam sites, Grande Ronde River, Oregon: 2 plan sheets, February 28, 1950. 619 Post Office Bldg., Portland, Oreg.
- Washington dam sites mapped: 2 plan sheets, August 28, 1950. 410 Federal Bldg., Tacoma, Wash.; 619 Post Office Bldg., Portland, Oreg.

CONSERVATION DIVISION - SUBJECT INDEX

	Page
Maps	
Alaska.....	17
Little Missouri River.....	17
Montana.....	17
New Mexico.....	17
Oregon.....	17
Washington.....	17
Water and power	
Alaska.....	17
California.....	17

CONSERVATION DIVISION - LOCATION INDEX

	Page
Alaska	
Maps.....	17
Water and power.....	17
California	
Water and power.....	17
Little Missouri River	
Maps.....	17
Montana	
Maps.....	17
New Mexico	
Maps.....	17
Oregon	
Maps.....	17
Washington	
Maps.....	17