

## GEOLOGICAL SURVEY CIRCULAR 263



REPORTS AND MAPS OF  
THE GEOLOGICAL SURVEY  
RELEASED ONLY IN THE  
OPEN FILES, 1952



UNITED STATES DEPARTMENT OF THE INTERIOR

Douglas McKay, Secretary

GEOLOGICAL SURVEY

W. E. Wrather, Director

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By Donald R. Wiesnet, Lois E. Randall, and Benjamin E. Jones

Washington, D. C., 1953

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



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### INTRODUCTION

This circular contains a list of the maps and reports released by the Geological Survey in 1952 that are available only in open files. They may be consulted in the Geological Survey Library in Washington, D. C., and at various field offices, the addresses of which are given immediately after the date of the report. They may also be read at the offices of various cooperating agencies, as indicated.

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 geology or the topography of federally owned or controlled lands as they affect the production

of water power, oil, and gas; they cover areas studied and mapped by geologists and engineers in 4 States.

The reports and maps of the Geologic Division contain results of work accomplished by Survey geologists in 35 States, Alaska, the Virgin Islands, the Trust Territory of the Pacific, Honduras, Mexico, and Japan. These maps and reports are released in preliminary form in order to make information immediately available 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 streamflow, ground water, quality of water, and related geology and hydrology, in the United States, the Virgin Islands, the Trust Territory of the Pacific, and Japan.

A general index follows, in which the reader is referred to a report by its serial number as listed in the following list of reports, which are arranged alphabetically by names of the authors.

### MAPS AND REPORTS

1. Agnew, A. F., Description of rock formations and minerals from holes drilled in Tete des Morts area, Iowa: 22p. Mar. 14, 1952. 108 Wisconsin Institute of Technology, Platteville, Wis.; 213 Science Hall, Madison, Wis.; Iowa Geological Survey, Geology Annex, Iowa City, Iowa.
2. Albers, J. P., Preliminary geologic map of the Bully Hill and Rising Star mines, Shasta County, Calif.: 2 maps. Mar. 14, 1952. 102 Old Mint Bldg., Fifth and Mission Sts., San Francisco, Calif.; California Division of Mines and Geology, Ferry Bldg., San Francisco, Calif.
3. Allen, W. B., Rhode Island cooperative groundwater survey report for 1951: 13 p., 5 figs. July 22, 1952. 101 Custom House Bldg., Providence, R. I.; 230 Old Country Rd., Mineola, L. I., N. Y.
4. Allen, W. B., Halberg, H. N., and Pistrang, M. A., Preliminary investigation of the groundwater resources of the Merrimack River drainage basin, N. H. and Mass.: 19 p., 3 figs. July 22, 1952. 927 Post Office Bldg., Boston, Mass.; 230 Old Country Rd., Mineola, L. I., N. Y.

5. Almond, Hy, A field method for the determination of traces of cobalt in soils: 6 p. May 28, 1952. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; 102 Old Mint Bldg., Fifth and Mission Sts., San Francisco, Calif.; South 157 Howard St., Spokane, Wash.
6. Arney, J. A., and Wilson, H. D., Jr., Water levels in observation wells in Santa Barbara County, Calif., in 1951: 20 p., 2 pls. Dec. 2, 1952. 2520 Marconi Ave., Sacramento, Calif.; 735 State St., Santa Barbara, Calif.
7. Arnow, Theodore, Ground-water investigations in the Trust Territory of the Pacific: 4 p., 6 figs. Jan. 21, 1952. Agana, Guam; 333 Federal Bldg., Honolulu, T. H.
8. Babcock, H. M., Memorandum on the ground-water resources of the Horse Creek and Cherry Creek drainage basins, Wyo.: 12 p., 1 fig. Oct. 7, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.
9. Bailey, E. H., Eleven maps of the New Almanden quicksilver mine area, California. Jan. 23, 1952. 102 Old Mint Bldg., Fifth and Mission Sts., San Francisco, Calif.; California Division of Mines and Geology, Ferry Bldg., San Francisco, Calif.
10. Baker, A. A., and others, Geologic map of the area south of Park City, Utah. July 15, 1952. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
11. Bateman, A. F., Jr., and Erdmann, C. E., Geology of Big Bottom dam site, Lewis River, Wash.: 5 p., 1 map. June 19, 1952. 244 Federal Bldg., Tacoma, Wash.; 619 Post Office Bldg., Portland, Oreg.
12. Bates, C. E., Photogeologic maps of the Stinking Spring Creek 13 and 14 quadrangles, Emery County, Utah. Oct. 8, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
13. Becraft, G. E., Geologic map of the Comet area, Jefferson City quadrangle, Jefferson County, Montana: 1 map with overlay sheet showing radioactive anomalies. Oct. 8, 1952. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard St., Spokane, Wash.; Montana Bureau of Mines and Geology, Butte, Mont.
14. Benedict, P. C., and Matejka, D. Q., The measurement of total sediment load in alluvial streams: 35 p., 5 figs., 1 table. Dec. 29, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.
15. Benedict, P. C., and others, Total sediment load measured in turbulence flume: 63 p., 25 figs. Dec. 22, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.
16. Boucot, A. J., Traprock deposit in Somerset County, Maine: map. July 18, 1952. Maine Development Commission, Augusta, Maine; State Geologist, Orono, Maine.
17. Brashears, M. L., Ground-water situation in Japan: 40 p., 1 pl., 4 figs. Apr. 30, 1952. 230 Old Country Rd., Mineola, L. I., N. Y.
18. Britt, S. H., translator—Caillière, S., and Kraut, F., Le rôle de la minéralogie dans la construction des barrages [The role of mineralogy in the construction of dams], Génie civil, tome 128, no. 18, p. 345-347, 6 figs., Paris, 1951 [in French]: translation 32, 9 p., 2 figs. May 26, 1952. 468 New Customhouse, Denver, Colo. A limited number of copies of the translation have been mimeographed and, as long as the supply lasts, can be obtained by writing to the U. S. Geological Survey, Washington 25, D. C.
19. Broadhurst, W. L., Ground-water hydrology: 8 p. Dec. 30, 1952. 302 West 15th St., Austin, Tex.
20. Brown, R. H., Procedure for analyzing water-level records: 4 p., 1 fig. Jan. 21, 1952. 2209 General Services Bldg., Washington, D. C.
21. Burgess, C. E., Fourth progress report on the cooperative investigation of springs and stream-flow in the Tecolote Tunnel area of Santa Barbara County, Calif.: 175 p., 2 pls. Oct. 22, 1952. 429-F Post Office Bldg., Los Angeles, Calif.; 541 Federal Office Bldg., San Francisco, Calif.
22. Cady, W. M., Quicksilver deposit near Aleknagik, Nushagak district, southwestern Alaska: 4 p., 3 figs. Aug. 25, 1952. 100 Old Mint Bldg., Fifth and Mission Sts., San Francisco, Calif.; Subport Bldg., Juneau, Alaska; Lavery Bldg., Fairbanks, Alaska; U. S. Bureau of Mines, Federal Bldg., Anchorage, Alaska.
23. Cheney, T. M., Peterson, J. A., Warner, M. A., Smart, R. A., Waring, R. G., and Sheldon, R. P., Stratigraphic sections of the Phosphoria formation measured and sampled in 1951: 71 p. of sections. Oct. 8, 1952. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard Street, Spokane, Wash.; Montana Bureau of Mines and Geology, Butte, Mont.; Idaho Bureau of Mines and Geology, Moscow, Idaho; Wyoming Geological Survey, Laramie, Wyo.
24. Coates, D. R., Geology of ground water in the Organ Pipe Cactus National Monument, Ariz.: 11 p., 1 map. Oct. 22, 1952. 18 East McCormick St., Tucson, Ariz.
25. Cobb, E. H., Preliminary report on coal investigations in the Homer district, Kenai coal field, Alaska, in 1950 and 1951: 19 p. Dec. 8, 1952. Alaskan Geology Branch, 100 Old Mint Bldg., Fifth and Mission Sts., San Francisco, Calif.; Subport Bldg., Juneau, Alaska; Lavery Bldg., Fairbanks, Alaska; Territorial Department of Mines, Juneau, Alaska; U. S. Bureau of Mines, Federal Bldg., Anchorage, Alaska.
26. Conant, L. C., Origin of the Chattanooga shale: 22 p. Oct. 7, 1952. Alabama Geological Survey, University, Ala.; Kentucky Geological Survey, Lexington, Ky.; Division of Geology, State Office Bldg., Nashville, Tenn.

27. Conover, C. S., Effect of development of ground water west of Red Mountain, N. Mex.: 53 p., 11 figs. Dec. 30, 1952. 218 Bass Bldg., 918 West Park Ave., Albuquerque, N. Mex.
28. Conover, C. S., Significance and presentation of annual measurements of ground-water levels in New Mexico: 5 p. July 22, 1952. 218 Bass Bldg., 918 West Park Ave., Albuquerque, N. Mex.
29. Crandell, D. R., Landslides in shale at Rapid City, S. Dak.: 17 p., 5 figs., 6 pls. Jan. 18, 1952. 468 New Customhouse, Denver, Colo.; State Geologist, University of South Dakota, Vermillion, S. Dak.; Library, South Dakota School of Mines, Rapid City, S. Dak.
30. Crandell, D. R., Preliminary report and maps on the geology of the Canning quadrangle, S. Dak.: 33 p., 1 map, cross section, 3 figs. Mar. 14, 1952. 468 New Customhouse, Denver, Colo.; State Geologist, University of South Dakota, Vermillion, S. Dak.
31. Cressman, E. R., Geology of the Dry Valley quadrangle, Idaho: 12 p., 1 table. Aug. 25, 1952. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard St., Spokane, Wash.; Idaho Bureau of Mines and Geology, Moscow, Idaho.
32. Dennis, P. E., Ground-water recharge in the East Shore area, Utah: 17 p. March 26, 1952. 503-A Federal Bldg., Salt Lake City, Utah.
33. Dings, M. G., Robinson, C. S., and Brock, M. R., Geologic map of Garfield quadrangle, Colo.: maps, sections, mine lists. Feb. 11, 1952. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; State Commissioner of Mines, State Museum Bldg., Denver, Colo.
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35. Doyel, W. W., Two cross sections showing sand and clay zones, Atascosa and Live Oak Counties, Tex.; and sand and clay zones, McMullen, Atascosa, and Karnes Counties, Tex.: July 22, 1952. 302 West 15th St., Austin, Tex.
36. Dunlap, J. C., Diamond-drill logs, Eve Mills zinc area, Monroe County, Tenn.: 32 logs. May 26, 1952. 13 Post Office Bldg., Knoxville, Tenn.; Division of Geology, State Office Bldg., Nashville, Tenn.
37. Durum, W. H., Relationship of the mineral constituents in solution to streamflow, Saline River near Russell, Kans.: 17 p. May 12, 1952. 2204 General Services Bldg., Washington, D. C.
38. Eakin, T. E., Water-resources investigation in the foreign assistance program: 7 p. May 28, 1952. 2209 General Services Bldg., Washington, D. C.
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40. Eckstein, W. H., Photogeologic map of Clay Hills 15 quadrangle, San Juan Country, Utah: Oct. 27, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
41. Erdmann, C. E., Holmes, K. H., and Koskinen, B. K., Structure contour map of the Pondera oil field, Montana: 2 maps. May 7, 1952. 3240 GSA Bldg., Washington, D. C.; 417 Electric Bldg., Great Falls, Mont.; 305 Federal Bldg., Casper, Wyo.
42. Fader, S. W., Records of wells and ground-water withdrawals for irrigation in Raft River valley, Cassia County, Idaho: 134 p., 1 pl., 1 fig. Jan. 22, 1952. All U. S. Geological Survey and U. S. Bureau of Reclamation offices in the Pacific Northwest; public libraries in southern Idaho and northern Utah; well drillers' associations in Idaho and Utah.
43. Fader, S. W., and Mower, R. W., Records of wells and ground-water levels in Minidoka County, Idaho: 173 p., 1 pl., 2 figs. Oct. 7, 1952. 209 Fidelity Bldg., Boise, Idaho.; 623 Post Office Bldg., Portland, Oreg.; 204 Federal Bldg., Idaho Falls, Idaho.; 503-A Federal Bldg., Salt Lake City, Utah; Idaho State Reclamation Engineer, State House, Boise, Idaho.
44. Ferris, J. G., Ground-water conditions in the Alma area, Mich.: 3 p. Sept. 15, 1952. 612 Capitol Savings and Loan Bldg., 112 East Allegan St., Lansing, Mich.
45. Fischer, R. P., Base maps of a part of the Thompsons district, Grand County, Utah: 4 maps. May 26, 1952. 468 New Customhouse, Denver, Colo.; Library, Denver Federal Center, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah; University of Utah, Salt Lake City, Utah.
46. Fischer, W. A., Photogeologic map of the Clay Hills 13 quadrangle, San Juan County, Utah: Oct. 8, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
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48. Flint, A. E., Description of rock formations and minerals from holes drilled in Highland area, Wisconsin: 24 p. Mar. 14, 1952. 108 Wisconsin Institute of Technology, Platteville, Wis.; 213 Science Hall, Madison, Wis.; Wisconsin Geological and Natural History Survey, 115 Science Hall, Madison, Wis.
49. Fraher, J. A., Engineering report on the Elk basin, Embar-Tensleep Reservoir, Wyo. and Mont.: 54 p., 16 figs., 4 tables. Oct. 1, 1952. 1033 General Services Bldg., Washington, D. C.; U. S. Geological Survey offices in Denver, Colo.; Billings, Mont.; Casper, Wyo.
50. George, W. O., Recharge of Texas' underground water reservoirs: 8 p. Aug. 15, 1952. 302 West 15th St., Austin, Tex.
51. Goddard, E. N., Structural control of fluor spar deposits in the Zuni Mountains, Valencia County, N. Mex.: 5 p., 1 fig. Jan. 23, 1952. Arizona Bureau of Mines, University of Arizona, Tucson, Ariz.; and New Mexico Bureau of Mines and Mineral Resources, Socorro, N. Mex.
52. Good, S. E., and Campbell, A. B., Geologic map of the Twin Crag quadrangle, Idaho. July 15, 1952. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard St., Spokane, Wash.; Idaho Bureau of Mines and Geology, Moscow, Idaho.
53. Graham, J. B., The geological story of a river: 15 p., 4 figs. Jan. 21, 1952. Academy of Natural Sciences, 19th and Parkway, Philadelphia, Pa.
54. Griggs, A. B., Geologic maps of the north half of the Mullan and vicinity quadrangle, Idaho. May 26, 1952. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard Street, Spokane, Wash.
55. Griggs, A. B., Geology and notes on ore deposits of Canyon-Nine Mile Creeks area, Shoshone County, Idaho: 108 p., 23 pls. Oct. 27, 1952. South 157 Howard St., Spokane, Wash.; Idaho Bureau of Mines and Geology, Moscow, Idaho.
56. Gulbrandsen, R. A., McLaughlin, K. P., Honkala, F. S., Clabaugh, S. E., and Krauskopf, K. B., Geologic map and structure sections of the Johnson Creek quadrangle, Caribou County, Idaho: 2 sheets. Aug. 25, 1952. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, Moscow, Idaho.
57. Hackman, R. J., Photogeologic map of the Agatha Peak 4 quadrangle, Navajo County, Ariz. Oct. 8, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; Arizona Bureau of Mines, University of Arizona, Tucson, Ariz.
58. Hackman, R. J., Photogeologic maps of the Aneth 1, 2, 3, 4, 7, and 8 quadrangles, Utah and Colorado. Aug. 25, 1952. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
59. Hackman, R. J., Photogeologic maps of the Aneth 5 and 6 quadrangles, San Juan County, Utah. Oct. 8, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
60. Hackman, R. J., Photogeologic maps of the Elk Ridge 1 and 8 quadrangles, Utah. Oct. 27, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
61. Hackman, R. J., Photogeologic maps of the Elk Ridge 9, 13, and 16 quadrangles, San Juan County, Utah. Aug. 25, 1952. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
62. Hackman, R. J., Photogeologic map of the Elk Ridge 12 quadrangle, San Juan County, Utah. Oct. 8, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
63. Hackman, R. J., Photogeologic maps of the Verdure 1, 2, 4, 6, 7, and 8 quadrangles, Utah and Colo. Oct. 27, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
64. Hackman, R. J., Photogeologic maps of the Verdure 3 and 5 quadrangles, San Juan County, Utah. Oct. 8, 1952. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
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66. Hackman, R. J., and Ray, R. G., Photogeologic maps of the Bluff 1, 8, and 13 quadrangles, San Juan County, Utah. Aug. 25, 1952. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
67. Halpenny, L. C., and Cushman, R. L., Pumpage and ground-water levels in Arizona in 1951: 20 p. Nov. 18, 1952. 18 East McCormick St., Tucson, Ariz.; 4014 North 7th St., Phoenix, Ariz.
68. Halpenny, L. C., Cushman, R. L., and Feth, J. H., Answers to 24 questions asked by the Hon. John R. Murdock, Member of Congress from Arizona, by letter of December 7, 1951, to the Director, U. S. Geological Survey: 20 p. Mar. 26, 1952. 18 East McCormick St., Tucson, Ariz.
69. Halpenny, L. C., and others, Map of Safford Valley, Graham County, Ariz., showing location of irrigation wells as of August 30, 1952. Dec. 2, 1952. 18 East McCormick St., Tucson, Ariz.; P. O. Box 517, Holbrook, Ariz.



70. Hartshorn, J. H., Geologic reconnaissance along the proposed location of Route 128 in Newton and Norwood quadrangles, Mass.: 5 p., 1 map. Oct. 27, 1952. Barnum Museum, Tufts College, Medford, Mass.; Massachusetts Department of Public Works, 100 Nashua St., Boston, Mass.
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72. Heinrich, W. E., Crystal Clear mica mine, Randolph County, Ala.: map. July 28, 1952. 13 Post Office Bldg., Knoxville, Tenn.; Geological Survey of Alabama, University, Ala.
73. Henderson, J. R., Preliminary total intensity aeromagnetic map of part of the Somerville quadrangle, N. J. Mar. 3, 1952. State Geologist, Room 108, 520 East State St., Trenton, N. J.; Department of Geology, 101 Rutgers University, New Brunswick, N. J.; Geology Department Library, Guyot Hall, Princeton University, Princeton, N. J.; Public Library, 31 East Clinton St., Dover, N. J.; Morristown Library, Morristown, N. J.
74. Henderson, J. R., Preliminary total intensity aeromagnetic maps of part of Grays Harbor, Pacific, Thurston, and Lewis Counties, Wash.: 2 maps. Sept. 15, 1952. 623 Post Office Bldg., Portland, Oreg.; 2520 Marconi Ave., Sacramento, Calif.; Room 206, 10929 Weyburn Ave., Los Angeles, Calif.; 234 Federal Bldg., Tulsa, Okla.; 504 Federal Bldg., Salt Lake City, Utah; Division of Mines and Geology, State Department of Conservation and Development, 404 Transportation Bldg., Olympia Wash.
75. Herrick, S. M., Results of chloride determinations of water samples from observation wells in the Savannah area, Ga., October 1952: 10 p., 8 figs. Dec. 30, 1952. 11 Hunter St., Atlanta, Ga.
76. Howard, C. S., Quality of Colorado River water: 8 p. Jan. 15, 1952. P. O. Box 2657, Bldg. 504, Fort Douglas, Salt Lake City, Utah.
77. Howard, C. S., Effects of irrigation on water quality: 4 p. Sept. 26, 1952. P. O. Box 2657, Bldg. 504, Fort Douglas, Salt Lake City, Utah.
78. Hoy, N. D., Two maps of Dade County, Fla., showing approximate position of the 1,000-ppm isochlor as of 1951 and approximate area of potential salt-water penetration under 1945 conditions. Feb. 12, 1952. Dinner Key, South Bayshore Dr., Miami, Fla.
79. Hoy, N. D., Map of Dade County, Fla., showing the approximate average annual water levels for 1945. Mar. 26, 1952. Dinner Key, South Bayshore Dr., Miami, Fla.
80. Hoy, N. D., Two maps of Dade County, Fla., showing the average annual water levels, 1950, and the approximate average water levels for the period 1940-1950. May 28, 1952. Dinner Key, South Bayshore Dr., Miami, Fla.
81. Hubbell, D. W., Matejka, D. Q., and Colby, B. R., Progress report—Investigations of fluvial sediments of the Snake River near Burdige, Nebr.: 43 p., 14 figs. May 28, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.
82. Jensen, F. S., Preliminary report on the geology of the Nashua quadrangle, Mont.: 37 p., map, 6 figs. Feb. 8, 1952. 468 New Customhouse, Denver, Colo.; Montana Bureau of Mines and Geology, Montana School of Mines, Butte, Mont.
83. Jensen, F. S., Structural contour map of part of the Williston basin in the Fort Peck district, Montana. May 19, 1952. 468 New Customhouse, Denver, Colo.; 315 Federal Bldg., Billings, Mont.; Montana Bureau of Mines and Geology, Butte, Mont.
84. Johnson, A. I., The Lincoln hydrologic laboratory, Lincoln, Nebr.: 10 p., 11 figs. Aug. 15, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.
85. Jones, P. H., Electric-logging methods, principles of interpretation, and application in ground-water studies: 45 p., 18 figs. Aug. 15, 1952. 16 Geology Bldg., University of Louisiana, Baton Rouge, La.
86. Kammerer, J. C., and Graham, J. B., Ground-water resources of the United States Naval Base, Philadelphia, Pa.: 137 p., 31 figs. Oct. 22, 1952. Academy of Natural Sciences, 19th St. and Parkway, Philadelphia, Pa.
87. Klepper, M. R., Weeks, R. A., and Ruppel, E. T., Geology of the southern Elkhorn Mountains, Jefferson and Broadwater Counties, Mont.: 6 maps, 13 secs. Oct. 8, 1952. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard St., Spokane, Wash.; Montana Bureau of Mines and Geology, Butte, Mont.; Public Library, Helena, Mont.
88. Lamar, W. L., Chemical and physical character of brines from the Dundee formation: 17 p., 7 tables. June 24, 1952. 2822 East Main St., Columbus, Ohio.
89. Lamar, W. L., and Laird, L. B., Determination of sodium and potassium in water using the Perkin-Elmer flame photometer, model 52A: 14 p. Jan. 10, 1952. 2822 East Main St., Columbus, Ohio.
90. LaMoreaux, P. E., Portable submersible pumping unit: 5 p., 3 pls., 2 figs. May 28, 1952. Smith Hall, Geology Bldg., University of Alabama, Tuscaloosa, Ala.
91. LaRocque, G. A., Jr., Graphic method for plotting field pumping-test data: 4 p., 3 figs. July 22, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.; Eltinge Bldg., 202½ Third St., Bismarck, N. Dak.
92. Lemke, R. W., Preliminary map of glacial Lake Souris, North Dakota. May 2, 1952. 468 New Customhouse, Denver, Colo.; State Geologist, Grand Forks, N. Dak.

93. Loeltz, O. J., Ground-water conditions in the vicinity of The Strip, Las Vegas Valley, Clark County, Nev., 1952: 14 p., 1 pl., 1 fig. Dec. 2, 1952. 231 State Office Bldg., 201 South Fall St., Carson City, Nev.; Office of the State Engineer, Carson City, Nev.
94. Lovering, T. G., Geology of the western portion of the Santa Rita quadrangle, Grant County, N. Mex.: 44 p., 1 illus. Nov. 24, 1952. Silver City, N. Mex.; New Mexico Bureau of Mines and Mineral Resources, Socorro, N. Mex.
95. McGuinness, C. L., Ground water in the vicinity of the San Manuel copper mine, Pinal County, Ariz. (letter of Sept. 23, 1952, from Director, U. S. Geological Survey, to Mr. Harry A. McDonald, Administrator, Reconstruction Finance Corporation): 6 p. Dec. 30, 1952. 18 East McCormick St., Tucson, Ariz.
96. Maclay, R. W., Occurrence of ground water in the Cheyenne River and Standing Rock Indian Reservation areas, N. and S. Dak.: 95 p., 2 pls., 2 figs. Aug. 15, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.; P. O. Box 1412, Huron, S. Dak.
97. Malmberg, G. T., Progress report, Huntsville project, Ala.: 3 p., 3 figs. Oct. 22, 1952. Smith Hall, Geology Bldg., University of Alabama, Tuscaloosa, Ala.
98. Meyer, R. R., Geology and hydrology of dam sites on the island of St. Croix, V. I.: 66 p., 4 figs. Jan. 21, 1952, 2209 General Services Bldg., Washington, D. C.
99. Meyers, J. D., and Newcomb, R. C., Geology and ground-water resources of the Swan Lake-Yonna Valleys area, Klamath County, Oreg.: 151 p., 10 pls. Dec. 8, 1952. 623 Post Office Bldg., Portland, Oreg.; Office of the State Engineer, Salem, Oreg.; Klamath County Agricultural Agent, Klamath Falls, Oreg.; main public libraries of Klamath County, Oreg.
100. Moore, J. G., Geology of the Mount Rosa area, Nevada: 85 p., 78 illus. Oct. 8, 1952. 504 Federal Bldg., Salt Lake City, Utah; Nevada Bureau of Mines, 201 Mackay School of Mines Bldg., University of Nevada, Reno, Nev.
101. Morris, D. A., and Hackett, O. M., Progress report on the geology and ground-water hydrology of the Riverton irrigation project, Wyo., with a section on the chemical quality of the water by W. H. Durum: 208 p., 2 pls., 14 figs. Feb. 14, 1952. 510 Rudge-Guenzel Bldg., Lincoln, Nebr.; 301 Federal Recreation Bldg., Cheyenne, Wyo.; 205 Post Office Bldg., Riverton, Wyo.; 318 Post Office Bldg., Billings, Mont.; Bureau of Reclamation offices at Riverton, Wyo.; Billings, Mont.; and Cody, Wyo.
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