

GEOLOGICAL SURVEY CIRCULAR 498



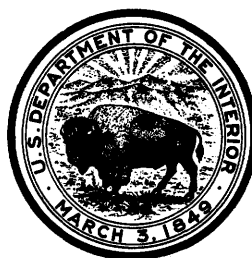
REPORTS AND MAPS OF THE
GEOLOGICAL SURVEY RELEASED
ONLY IN THE OPEN FILES, 1964

**REPORTS AND MAPS OF THE GEOLOGICAL SURVEY
RELEASED ONLY IN THE OPEN FILES, 1964**

By Betsy A. Weld, Margaret S. Griffin, and George W. Brett

United States Department of the Interior

STEWART L. UDALL, SECRETARY



Geological Survey

THOMAS B. NOLAN, DIRECTOR



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INTRODUCTION

This circular contains a list of maps and reports released by the U.S. Geological Survey during 1964 that are available for public inspection in the open files. These maps and reports may be consulted at the indicated depositories, and copies may be made upon request (at the requestor's expense).

The reports are arranged alphabetically by author; each report is preceded by a serial number that is used to identify the report in the index (p. 13), and is followed by the depositories at which it may be consulted.

Most open-file reports are on file in at least one of the major U.S. Geological Survey depositories listed below. Many are also on file at depositories selected as appropriate for the individual reports. All depositories are U.S. Geological Survey offices unless a State Geological Survey or other organization is specifically indicated. The following symbols are used in the list to indicate the major depositories:

Wa	Library, 1033 General Services Administration Building, 18th and F Streets, NW., Washington, D.C.
Wb	1242-N General Services Administration Building, 18th and F Streets, NW., Washington, D.C.
Da	Library, Building 25, Federal Center, Denver, Colo.
Db	Public Inquiries Office, 15426 Federal Building, Denver, Colo.

M	Library, 345 Middlefield Road, Menlo Park, Calif.
A	Public Inquiries Office, 108 Skyline Building, 508 2nd Ave., Anchorage, Alaska.
LA	Public Inquiries Office, 7638 Federal Building, 300 N. Los Angeles Street, Los Angeles, Calif.
S	Public Inquiries Office, South 157 Howard Street, Spokane, Wash.
SF	Public Inquiries Office, 504 Custom House, 555 Battery Street, San Francisco, Calif.
T	Public Inquiries Office, 602 Thomas Building, 1314 Wood Street, Dallas, Tex.
U	Public Inquiries Office, 8102 Federal Office Building, 125 South State Street, Salt Lake City, Utah.

Open-file reports released during past years have been listed in the following circulars (* indicates report is out of print):

Year(s)	Circular	Year	Circular
1946-47	*56	1957	403
1948	*64	1958	412
1949-50	*149	1959	428
1951	*227	1960	448
1952	*263	1961	463
1953	*337	1962	473
1954	*364	1963	488
1955	379	1964	498
1956	406		

MAPS AND BOOK REPORTS

1. Adkison, W. L., Detailed description of sample logs for two wells in Shawnee County, Kansas: 34 p. Dec. 9, 1964. (Wa, Da, Db, M. State Geol. Survey, Lindley Hall, Univ. of Kansas, Lawrence, Kans.)
2. Akers, J. P., Cooley, M. E., and Dennis, P. E., Synopsis of ground-water conditions on the San Francisco Plateau near Flagstaff, Coconino County, Arizona: 27 p., 3 figs. Jan. 15, 1964. (Wb; Geology Bldg., Univ. of Arizona Campus, Tucson, Ariz.; 4018 Federal Bldg., 230 North 1st Ave., Phoenix, Ariz.; Holbrook, Ariz.)
3. Ayer, G. R., Float studies and temperature observations, Cumberland Bay area of Lake Champlain: 75 p., 2 pls., 35 figs. Dec. 2, 1964. (341 Federal Bldg., Albany, N.Y.)
4. Bader, J. S., A reconnaissance of saline ground water in California: 14 p., 2 figs. Mar. 31, 1964. (Wb; 8042 Federal Bldg. & U.S. Court House, 650 Capitol Ave., Sacramento, Calif.; 221 Redondo Ave., Long Beach, Calif.)
5. Baker, J. H., Beetem, W. A., and Wahlberg, J. S., Adsorption equilibria between earth materials and radionuclides, Cape Thompson, Alaska: 41 p., 6 figs. Mar. 31, 1964. (Wb, Da.)
6. Balsley, J. R., Meuschke, J. L., and Kirby, J. R., Aeromagnetic map of parts of Matchwood, Ontonagon, Rockwood, and Greenwood quadrangles, Ontonagon County, Michigan: 1 sheet. Dec. 9, 1964. (Wa, Da, M. Geol. Survey Div., Dept. of Conserv., Stevens T. Mason Bldg., Lansing, Mich.; Dept. of Geology and Geol. Engineering, Michigan Technol. Univ., Houghton, Mich.)
7. Balsley, J. R., and Petrafeso, F. A., Aeromagnetic map of parts of Marquette, Dickinson, Baraga, Alger, and Schoolcraft Counties, Michigan: 1 sheet [in 3 parts]. Jan. 9, 1964. (Wa, Da, M. Geol. Survey Div., Dept. of Conserv., Stevens T. Mason Bldg., Lansing, Mich.; Dept. of Geology & Geol. Engineering, Michigan Technol. Univ., Houghton, Mich.)
8. Balsley, J. R., and Vargo, J. L., Aeromagnetic map of the Bergland and part of the White Pine quadrangles, Ontonagon and Gogebic Counties, Michigan: 1 sheet. Feb. 5, 1964. (Wa, Da, M. Geol. Survey Div., Dept. of Conserv., Stevens T. Mason Bldg., Lansing, Mich.; Dept. of Geology & Geol. Engineering, Michigan Technol. Univ., Houghton, Mich.)
9. Barnes, D. F., and MacCarthy, G. R., Preliminary report on tests of the application of geophysical methods to Arctic ground water problems: 37 p., 22 figs., 1 table. Mar. 23, 1964. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Memorial Bldg., College, Alaska; 203 Simpson Bldg., Juneau, Alaska. Alaska Div. of Mines and Minerals, State Capitol Bldg., Juneau, Alaska.)
10. Barosh, P. J., Lower Permian stratigraphy of east-central Nevada and adjacent Utah: 144 p., 15 pls., 3 tables. Sept. 15, 1964. (Wa. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
11. Barron, E. G., Water-level sensing device: 1 p., 2 figs. Mar. 31, 1964. (Wb.)
12. Bateman, A. F., Jr., Montana's coal resources: 20 p., 1 fig. Dec. 28, 1964. (Wa; 510 First Ave. North, Great Falls, Mont.)
13. Berg, H. C., Reconnaissance geochemistry of stream sediments from three areas near Juneau, Alaska: 4 p., 1 fig., 2 tables. Mar. 24, 1964. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Memorial Bldg., College, Alaska; 203 Simpson Bldg., Juneau, Alaska. Alaska Div. of Mines and Minerals, State Capitol Bldg., Juneau, Alaska.)
14. Bertaiola, Mario, Ground water in the Azzahra-Annasira-Al Amiria area, Tripolitania: 36 p., 5 figs. May 15, 1964. (Wb.)
15. Black, D. F. B., and Cressman, E. R., Gamma-ray logs from central Bluegrass region, Kentucky: 1 pl. Apr. 2, 1964. (Wa, Da, M. Kentucky Geol. Survey, 307 Mineral Industries Bldg., 120 Graham Ave., Lexington, Ky.)
16. Bonilla, M. G., Bedrock-surface map of the San Francisco South quadrangle, California: 1 sheet, scale 1:20,000. Mar. 16, 1964. (Wa, Da, M, LA, SF.)
17. Bowers, W. E., Outline of the geology of the U12i and U12i.01 tunnels and lithology of the U12i.01 drill hole, Nevada Test Site: 23 p., 4 figs., 10 tables. Jan. 9, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)

18. Boynton, G. R., and Gilbert, F. P., Aero-magnetic map of the Cupsuptic quadrangle, Oxford and Franklin Counties, Maine: 1 sheet, scale 1:62,500. Mar. 10, 1964. (Wa; Rm. 1, 270 Dartmouth St., Boston, Mass. Dept. of Econ. Devel., Div. of Geology, State House, Augusta, Maine.)
19. Boynton, G. R., and Gilbert, F. P., Aero-magnetic map of the Oquossoc quadrangle, Oxford and Franklin Counties, Maine: 1 sheet, scale 1:62,500. Mar. 10, 1964. (Wa; Rm. 1, 270 Dartmouth St., Boston, Mass. Dept. of Econ. Devel., Div. of Geology, State House, Augusta, Maine.)
20. Boynton, G. R., and Gilbert, F. P., Aero-magnetic map of the Phillips quadrangle, Franklin County, Maine: 1 sheet, scale 1:62,500. Mar. 10, 1964. (Wa; Rm. 1, 270 Dartmouth St., Boston, Mass. Dept. of Econ. Devel., Div. of Geology, State House, Augusta, Maine.)
21. Boynton, G. R., and Gilbert, F. P., Aero-magnetic map of the Rangeley quadrangle and part of the Kennebago Lake quadrangle, Franklin and Oxford Counties, Maine: 1 sheet, scale 1:62,500. Mar. 10, 1964. (Wa; Rm. 1, 270 Dartmouth St., Boston, Mass. Dept. of Econ. Devel., Div. of Geology, State House, Augusta, Maine.)
22. Boynton, G. R., and Vargo, J. L., Aero-magnetic map of parts of Gogebic and Ontonagon Counties, Michigan: 1 sheet. Dec. 9, 1964. (Wa, Da, M. Geol. Survey Div., Dept. of Conserv., Stevens T. Mason Bldg., Lansing, Mich.; Dept. of Geology & Geol. Engineering, Michigan Technol. Univ., Houghton, Mich.)
23. Brabb, E. E., and Churkin, Michael, Jr., Preliminary geologic map of the Charley River quadrangle, east-central Alaska: 1 sheet, scale 1:250,000. Aug. 17, 1964. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Memorial Bldg., College, Alaska; 203 Simpson Bldg., Juneau, Alaska. Alaska Div. of Mines and Minerals, State Capitol Bldg., Juneau, Alaska.)
24. Brew, D. A., Synorogenic sedimentation of Mississippian age, Eureka quadrangle, Nevada: 296 p., 6 pls., 79 figs., 9 tables. Jan. 9, 1964. (Wa, Da, M.)
25. Bromery, R. W., and Tyson, N. S., Aero-magnetic map of the Garlock area, Kern and Los Angeles Counties, California: 1 sheet. Feb. 5, 1964. (Wa, M, Da, SF, LA. Div. of Mines and Geology, Dept. of Conserv., Ferry Bldg., San Francisco, Calif.)
26. Buckner, H. D., and Thompson, G. L., Base-flow study: Blanco River, Texas, February-March 1963: 22 p., 3 figs. July 1, 1963. (Wb; Vaughn Bldg., 807 Brazos St., Austin, Tex.)
27. Byers, F. M., Jr., and Barnes, Harley, Geologic map of the Paiute Ridge quadrangle, Nye and Lincoln Counties, Nevada: 1 sheet, scale 1:24,000. June 17, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
28. Byers, F. M., Jr., and Cummings, David, Geologic map of Scrugham Peak quadrangle, Nye County, Nevada: 1 sheet, scale 1:24,000. Aug. 5, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
29. Byers, F. M., Jr., Rogers, C. L., and Luft, S. J., Geologic map of the Buck-board Mesa quadrangle, Nye County, Nevada: 1 sheet, scale 1:24,000. Sept. 16, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
30. Canney, F. C., and Nowlan, G. A., Determination of ammonium citrate-soluble cobalt in soils and sediments: 15 p. June 30, 1964. (Wa, Da, M. Dept. of Econ. Devel., Div. of Geology, State House, Augusta, Maine.)
31. Canney, F. C., and Post, E. V., Suggested exploration target in west-central Maine: 7 p., 1 fig. July 17, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Dept. of Econ. Devel., Div. of Geology, State House, Augusta, Maine.)
32. Carr, W. J., and Quinlivan, W. D., Geologic map of the Timber Mountain quadrangle, Nye County, Nevada: 1 sheet, scale 1:24,000. Sept. 16, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
33. Castle, R. O., Geology of the Andover Granite and surrounding rocks, Massachusetts: 550 p., 50 pls., 30 figs., 28 tables. Aug. 5, 1964. (Wa; Rm. 1, 270 Dartmouth St., Boston, Mass.)
34. Cederstrom, D. J., and Bertariola, Mario, Ground-water resources of the Tripoli

- area, Libya: 361 p., 21 figs. May 15, 1964. (Wb.)
35. Christiansen, R. L., and Lipman, P. W., Geologic map of the Topopah Spring NW quadrangle, Nye County, Nevada: 1 sheet, scale 1:24,000. June 17, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
 36. Clarke, F. E., and Barnes, Ivan, Preliminary evaluation of corrosion and encrustation mechanisms in tube wells of the Indus Plains, West Pakistan: 81 p., 16 figs. Sept. 16, 1964. (Wb.)
 37. Clarke, F. E., Selection of metal components for long-term development of Egypt's corrosive ground waters: 39 p., 10 figs. Oct. 28, 1964. (Wb.)
 38. Cobb, E. D., and Dale, R. H., Low-flow investigation of the North Fork Feather River below Belden Diversion Dam, November 1963: 20 p., 4 figs. Feb. 20, 1964. (Wb, M.)
 39. Colbert, J. L., and Young, L. L., Review of waterpower withdrawals in Weiser River Basin, Idaho: 34 p. May 25, 1964. (Wa, Da, M, U, S; Rm. 215, 914 Jefferson St., Boise, Idaho. Public Library, State Capitol, Boise, Idaho; Dept. of Interior Library, Federal Bldg., 1002 N.E. Holladay, Portland, Oreg.)
 40. Cook, K. L., and Berg, J. W., Jr., Principal facts for gravity stations along the central and southern Wasatch Front, Utah: 3 p. text, 20 p. tables. [Supplementary material to Prof. Paper 316-E.] Sept. 28, 1964. (Wa, Da, Db, M, U.)
 41. Cooley, M. E., Harshbarger, J. W., Akers, J. P., and Hardt, W. F., Regional hydrogeology of the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah, with a section on vegetation by O. N. Hicks: 245 p., 31 figs. Dec. 2, 1964. (Wb; Geology Bldg., Univ. of Arizona Campus, Tucson, Ariz.; 4016 Federal Bldg., 230 North 1st Ave., Phoenix, Ariz.)
 42. Davis, R. E., Geology of the 410 area, Nevada Test Site, Nye County, Nevada: 24 p., 2 figs., 1 table. Mar. 16, 1964. (Wa, Da, Db, M, SF, LA, U. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
 43. Dinwiddie, G. A., Availability of ground water for irrigation on the Pojoaque Pueblo Grant, Santa Fe County, New Mexico: 14 p., 1 fig. May 15, 1964. (Wb; 279 Geology Bldg., Albuquerque, N. Mex.)
 44. Doolittle, R. N., and Sax, K. W., Gross theoretical waterpower, developed and undeveloped, State of California: 28 p. June 15, 1964. (Wa, SF, LA; 8030 Federal Bldg., Sacramento, Calif.)
 45. Dunrud, C. R., and Osterwald, G. W., Seismic study of coal mine bumps, Carbon and Emery Counties, Utah: 8 p., 7 figs. Nov. 23, 1964. (Wa, M, Da, Db, U.)
 46. Eargle, D. H., Descriptions of samples and cores from four wells in southeastern Mississippi: 31 p. May 18, 1964. (Wa, Da, Db, M, T; Balcones Research Center, Austin, Tex.; 313 U.S. Post Office Bldg., Jackson, Miss. Mississippi Geol., Econ., and Topog. Survey, 2525 N. West St., Jackson, Miss.)
 47. Ekren, E. B., Anderson, R. E., Orkild, P. P., and Hinrichs, E. N., Geologic map of the Silent Butte quadrangle, Nye County, Nevada: 1 sheet, scale 1:24,000. Sept. 16, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
 48. Ekren, E. B., and Sargent, K. A., Geologic map of the Skull Mountain quadrangle at the Nevada Test Site, Nye County, Nevada: 1 sheet, scale 1:24,000. June 17, 1964. (Wa, Da, Db, M, U, SF, LA. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
 49. Erickson, R. L., and Marranzino, A. P., Copper determinations on samples of alluvium and caliche from the Rocky Range, Beaver County, Utah: 1 p. text, 3 p. tables, 1 fig. Sept. 15, 1964. (Wa, Da, Db, M, U.)
 50. Erickson, R. L., Masursky, Harold, Marranzino, A. P., Oda, Uteana, and Janes, W. W., Semiquantitative spectrographic and chemical analyses of rocks from the lower plate of the Roberts Thrust, north-central part of the Cortez quadrangle, Nevada: 2 sheets. July 27, 1964. (Wb, Da, M, SF, LA, U. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
 51. Evans, H. B., Factors influencing permeability and diffusion of radon in synthetic sandstones: 94 p., 22 figs., 18 tables. June 17, 1964. (Wa.)

52. Evenson, R. E., Results of test drilling, Naval Missile Facility, Point Arguello, Santa Barbara County, California, 1962-63: 18 p., 4 figs. Mar. 31, 1964. (Wb; 121 West de LaGuerra St., Santa Barbara, Calif.; 8042 Federal Bldg. & U.S. Court House, 650 Capitol Ave., Sacramento, Calif.)
53. Fassett, J. E., Subsurface geology of the Upper Cretaceous Kirtland and Fruitland Formations of the San Juan Basin, New Mexico and Colorado: 93 p., 4 figs., 12 pls. June 15, 1964. (Wa, Db, U; 3535 East 30th St., Farmington, N. Mex.)
54. Feininger, Tomas, Petrology of the Ashaway and Voluntown quadrangles, Connecticut-Rhode Island: 219 p., 6 pls., 48 figs., 13 tables. May 18, 1964. (Wa.; Rm. 1, 270 Dartmouth St., Boston, Mass.)
55. Frederick, B. J., Measurement of turbine discharge with radioisotopes: 32 p., 6 figs. Dec. 2, 1964. (Wa, Wb, Da, Db, M, SF, LA, U. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
56. Frischknecht, F. C., and Petrafeso, F. A., Aeromagnetic map of the Kramer area, Kern, San Bernardino, and Los Angeles Counties, California: 1 sheet. Feb. 5, 1964. (Wa, Da, M, LA, SF. Div. of Mines and Geology, Dept. of Conserv., Ferry Bldg., San Francisco, Calif.)
57. Gair, J. E., and Wier, K. L., Geologic and magnetic survey of a part of the Palmer 7 1/2-minute quadrangle, Michigan. 1 sheet, with explanation. Feb. 5, 1964. (Wa, Da, M; 222 Science Hall, Univ. of Wisconsin, Madison, Wis. Geol. Survey Div., Dept. of Conserv., Stevens T. Mason Bldg., Lansing, Mich.; Dept. of Geology & Geol. Engineering, Michigan Technol. Univ., Houghton, Mich.)
58. Gates, J. S., Ground water in the Navajo Sandstone at the east entrance, Zion National Park, Utah: 23 p., 2 figs. Feb. 20, 1964. (Wb; 125 Empire Bldg., 231 East 4th South, Salt Lake City, Utah. Southwest Region Office, National Park Service, Santa Fe, N. Mex.)
59. Giessner, F. W., A reconnaissance of the geology and water resources of the Mission Creek Indian Reservation, Riverside County, California: 31 p., 3 figs. July 1, 1964. (Wb; 221 Redondo Ave., Long Beach, Calif.; 8024 Federal Bldg. & U.S. Court House, 650 Capitol Ave., Sacramento, Calif.)
60. Gilstrap, R. C., and Christensen, R. C., Floods of July 16-17, 1963, in vicinity of Hot Springs, Arkansas: 6 p., 3 figs. July 1, 1964. (142 Arlington Towers, Arlington, Va.; 2301 Federal Office Bldg., Little Rock, Ark.)
61. Giroux, P. R., Hendrickson, G. E., Stojmenoff, L. E., and Whetstone, G. W., Water resources of Van Buren County, Michigan: 140 p., 45 figs. Oct. 28, 1964. (Wb; 407 Capitol Savings & Loan Bldg., Lansing, Mich.)
62. Goldsmith, Richard, Geologic map of New England: (1) General geology, (2) Metamorphic zones, and (3) Radiometric ages: 3 sheets, scale 1:1,000,000. Feb. 5, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass.)
63. Gott, G. B., and McCarthy, J. H., Jr., Distribution of mercury, silver, tellurium, arsenic, and antimony in the Rowe Canyon area, White Pine County, Nevada: 1 sheet, 6 figs. Nov. 12, 1964. (Wa, Da, M, SF, LA, U.)
64. Harris, W. H., and Wilder, H. B., Ground-water supply of Cape Hatteras National Seashore Recreational Area, North Carolina, Part 3: 36 p., 5 figs. Mar. 31, 1964. (Wb; Federal Bldg., Raleigh, N. C.)
65. Harshman, E. N., Geologic map of the Bates Creek quadrangle, Carbon and Natrona Counties, Wyoming: 1 sheet, scale 1:24,000. Mar. 24, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
66. Harshman, E. N., Geologic map of the Chalk Hills quadrangle, Albany and Carbon Counties, Wyoming: 1 sheet, scale 1:24,000. Apr. 2, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
67. Harshman, E. N., Geologic map of the Horse Peak quadrangle, Carbon and Natrona Counties, Wyoming: 1 sheet, scale 1:24,000. Mar. 24, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
68. Harshman, E. N., Geologic map of the Measel Spring Reservoir quadrangle, Car-

- bon County, Wyoming: 1 sheet, scale 1:24,000. Mar. 24, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
69. Harshman, E. N., Geologic map of the Moss Agate Reservoir quadrangle, Carbon County, Wyoming: 1 sheet, scale 1:24,000. Mar. 24, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
 70. Harshman, E. N., Geologic map of the Mud Springs quadrangle, Carbon and Natrona Counties, Wyoming: 1 sheet, scale 1:24,000. Mar. 24, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
 71. Harshman, E. N., Geologic map of the Squaw Spring quadrangle, Albany, Carbon, Converse, and Natrona Counties, Wyoming: 1 map, scale 1:24,000. Apr. 2, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
 72. Harshman, E. N., Geologic map of the Wild Irish Reservoir quadrangle, Carbon County, Wyoming: 1 sheet, scale 1:24,000. Mar. 24, 1964. (Wa, Da, Db, M, U. Geol. Survey of Wyoming, Univ. of Wyoming, Laramie, Wyo.)
 73. Hartshorn, J. H., and Atherton, J. S., Preliminary surficial geology of the Bashbish Falls quadrangle, Massachusetts-Connecticut-New York: 12 p., 1 sheet, scale 1:24,000. Mar. 24, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
 74. Hartwell, J. H., Klein, Howard, and Joyner, B. F., Preliminary evaluation of hydrologic situation in Everglades National Park, Florida: 25 p., 12 figs. Dec. 2, 1964. (Wb; 241 Federal Bldg., Ocala, Fla.; Rm. 730, 51 S.W. First Ave., Miami, Fla.)
 75. Hazlewood, R. M., Simple Bouguer gravity map of the northern part of the Black Hills, South Dakota: 1 sheet. Feb. 5, 1964. (Wa, Da, Db, M. State Geol. Survey, Science Center, State Univ., Union Bldg., Vermillion, S. Dak.)
 76. Henderson, R. G., and Wilson, Alphonso, Polar charts for calculating aeromagnetic anomalies of three-dimensional bodies: 13 p., 7 pls., 6 figs., 1 table. Jan. 9, 1964. (Wa, Da, M.)
 77. Hernon, R. M., Geologic maps and sections of the Ducktown, Isabella, and Persimmon Creek quadrangles, Tennessee and North Carolina: 3 sheets, scale 1:24,000. Sept. 16, 1964. (Wa, Da, M; 11 Post Office Bldg., Knoxville, Tenn. Div. of Geology, Dept. of Conserv., G-5 State Office Bldg., Nashville, Tenn.; Div. of Mineral Resources, Dept. of Conserv. and Devel., State Office Bldg., Raleigh, N. C.)
 78. Hinrichs, E. N., Krushensky, R. D., Luft, S. J., Brown, R. D., and Simons, F. S., Geologic map and sections of the Ammonia Tanks quadrangle, Nye County, Nevada: 1 sheet, scale 1:24,000. Dec. 28, 1964. (Wa, Da, Db, M, SF, LA, U. Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev.)
 79. Holmes, G. W., Preliminary materials map, Ashley Falls quadrangle, Massachusetts-Connecticut: 1 map, scale 1:24,000; 22 data sheets. June 5, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
 80. Holmes, G. W., Preliminary materials map, Massachusetts portion of the Egremont quadrangle, Massachusetts-New York: 1 map, scale 1:24,000; 11 data sheets. June 5, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
 81. Holmes, G. W., Preliminary materials map of the Great Barrington quadrangle, Massachusetts: 1 map, scale 1:24,000; 21 data sheets. Apr. 16, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
 82. Holmes, G. W., Preliminary materials map, Monterey quadrangle, Massachusetts: 1 sheet, scale 1:24,000, and description of material from 9 gravel pits. Apr. 15, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth

- St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
83. Holmes, G. W., Preliminary materials map of the South Sandisfield quadrangle, Massachusetts-Connecticut: 1 map, scale 1:24,000; 9 data sheets. Apr. 16, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
 84. Holmes, G. W., Preliminary materials map, Massachusetts portion of the State Line quadrangle, Massachusetts-New York: 1 map, scale 1:24,000; 11 data sheets. June 5, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
 85. Holmes, G. W., Preliminary materials map, Stockbridge quadrangle, Massachusetts: 1 map, scale 1:24,000; 7 data sheets. June 5, 1964. (Wa, Da, M; Rm. 1, 270 Dartmouth St., Boston, Mass. Massachusetts Dept. Public Works, 100 Nashua St., Boston, Mass.; U.S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass.)
 86. Hughes, G. H., and McDonald, C. C., Operation of evapotranspiration tanks near Yuma, Arizona: 14 p. May 15, 1964. (Wb; 16 West 2nd St., Yuma, Ariz.)
 87. Ireland, Burdge, Trends in quality of water on the Lower Colorado River: 13 p. May 15, 1964. (Wb; 16 West 2nd St., Yuma, Ariz.)
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