
GEOLOGICAL SURVEY CIRCULAR 64



November 1949

PRELIMINARY MAPS AND REPORTS
RELEASED BY
THE GEOLOGIC DIVISION AND
THE CONSERVATION DIVISION 1948

By

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GEOLOGICAL SURVEY
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UNITED STATES DEPARTMENT OF THE INTERIOR
J. A. Krug, Secretary
GEOLOGICAL SURVEY
W. E. Wrather, Director

WASHINGTON, D. C.

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

INTRODUCTION

This circular contains a complete list of all the preliminary maps and reports issued by the Geologic Division and the Conservation Division of the U. S. Geological Survey during the period between January 1, 1948, and January 1, 1949.

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 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.

Most of the maps were duplicated by rapid and inexpensive processes such as photostat, van dyke, and ozalid, but some were duplicated by the more expensive photolith or multilith processes. Most of these maps and reports released for public distribution were prepared in limited editions only; some of these are by now out of print. Those still available may be obtained from the Director of the Geological Survey, Washington 25, D.C., at the listed price, or without charge if no price is given.

Maps not available for public distribution were placed in open files in various Geological Survey offices, offices of other government agencies, and offices of State geological surveys where they may be inspected by any interested persons. Names and addresses of these offices are listed in the column headed "Remarks." Maps in open file are listed in this compilation under "Remarks"; maps for general distribution are listed in the column headed "Maps distributed".

The material is arranged alphabetically, first by commodity, second by location, and third by date of press release.

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BETWEEN JANUARY 1, 1948, AND JANUARY 1, 1949

Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Cobalt-copper	4/28/48	IDAHO Lemhi	Report released on Blackbird cobalt-copper deposits in Idaho.	Strategic Minerals Investigations, Preliminary Report 3-219. No charge; brown-line prints. 1. General geologic map of Blackbird district, Lemhi County, Idaho, by J. S. Vhay, D. J. Varnes, and J. G. Broughton. 6/1946. 1"-1,000'. 2. Geology of Meadow Creek and vicinity, Lemhi County, Idaho, by J. S. Vhay, D. J. Varnes, and J. G. Broughton. 6/1946. 1"-200'. 3. Mine workings in Blackbird district, Lemhi County, Idaho, by J. S. Vhay, G. M. Sowers, and J. G. Broughton. 1"-50'.	Report: Cobalt-copper deposits of the Blackbird district, Lemhi County, Idaho, by J. S. Vhay. 5/1947. Available for limited distribution from the Director, U. S. Geological Survey, Washington 25, D. C., and Geological Survey offices, 707 Peyton Building, Spokane, Wash. Area surveyed and mapped at intervals during the period 1942-46.
Construction materials	1/28/48	KANSAS Phillips	Phillips County, Kansas, construction materials report released.	None. Area surveyed and mapped in the summer of 1946. Prepared in cooperation with the State Highway Commission of Kansas. Prepared as part of the program of the Interior Department for development of the Missouri River Basin. 4 maps (blue-line prints) in open file: 1. Index map of Kansas showing area covered by this report. 2. Geologic cross section of the Solomon Valley. 1"-1 mile. 3. Map showing a quartzite prospect in Phillips County, Kansas. 1"-566' (approximately). 4. Map showing construction materials and geology of Phillips County, Kansas. 1"-1 mile.	Press release placed a 39-page report, "Construction materials in Phillips County, Kansas," by F. E. Byrne, H. V. Beck, and M. S. Houston, in open file at the following offices: Office of the State Geologist, University of Kansas, Lawrence, Kansas; and Geological Survey offices at Room 1033 (Library) and G-234, Federal Works Agency Building, Washington, D. C.
Construction materials	9/27/48	KANSAS Decatur Ellis Graham Jewell Norton Rooks Smith	Reports on construction materials of seven Kansas counties released.	None.	Area studied and mapped in 1947 by U. S. Geological Survey field parties in cooperation with the State Highway Commission of Kansas. Press release placed in open file 7 reports and accompanying maps on construction materials in Kansas. Copies have been placed in open file at the following offices: Office of the State Geologist, University of Kansas, Lawrence, Kansas; Office of the Chief Geologist, State Highway Commission of Kansas, Topeka, Kansas; and Geological Survey offices at Room 1033 (Library) and G-234, Federal Works Agency Building, Washington, D. C. Reports and maps in open file listed in the box below and on the following page.
		County	No. of maps	Maps in open file	Remarks
		Decatur	4	By F. E. Byrne, H. V. Beck, C. H. Bearman, and C. W. Matthews. pl. 1. Map showing construction materials and geology of Decatur County, Kansas. Blue-line print. fig. 1. Index map of Kansas. fig. 2. Outcropping stratigraphic units in Decatur County, Kansas, and their construction materials. fig. 3. Geologic cross section through the North and South Fork Valleys of Sappa Creek.	Area surveyed and mapped in the summer of 1947. Report: Construction materials in Decatur County, Kansas, by F. E. Byrne, H. V. Beck, C. H. Bearman, and C. W. Matthews. 28 pages.

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Construction materials	9/27/48	KANSAS (continued)	Reports on construction materials of seven Kansas counties released.		Reports and maps in open file listed in box below.

County	No. of maps	Maps in open file	Remarks
Ellis	4	<p>pl. 1. Map showing construction materials and geology of Ellis County, Kansas, by F. E. Byrne, V. B. Coombs, and C. H. Bearman. Blue-line print. 1"-1 mile.</p> <p>fig. 1. Index map. Photostat.</p> <p>fig. 2. Outcropping stratigraphic units in Ellis County, Kansas, and their construction materials; photostat.</p> <p>fig. 3. Geologic cross section of the Saline River Valley; photostat.</p>	Report: Construction materials in Ellis County, Kansas, by F. E. Byrne, H. V. Beck, and M. S. Houston. 43 pages.
Graham	4	<p>pl. 1. Map showing construction materials and geology of Graham County, Kansas. Blue-line print. 1"-1 mile.</p> <p>fig. 1. Index map. Photostat.</p> <p>fig. 2. Geologic cross section of the valley of South Fork Solomon River; photostat.</p> <p>fig. 3. Outcropping stratigraphic units in Graham County, Kansas, and their construction materials; photostat.</p>	Area surveyed and mapped in the summer of 1947. Report: Construction materials in Graham County, Kansas, by F. E. Byrne, V. B. Coombs, and C. W. Matthews. 34 pages.
Jewell	5	<p>5 maps (photostats) in open file:</p> <ol style="list-style-type: none"> 1. Index map. 2. Outcropping stratigraphic units in Jewell County, and their construction materials. 3. Geologic cross section along the line A-A'. 1"-1 mile. 4. Map showing distribution of rock tentatively assigned to the Ogallala formation. 1"-4 miles. 5. Map showing construction materials and geology of Jewell County, Kansas. Blue-line print. 1"-1 mile. By M. S. Houston and M. R. Mudge. 	Area surveyed and mapped in the summer of 1947. Report: Construction materials in Jewell County, Kansas, by F. E. Byrne, M. S. Houston, and M. R. Mudge. 47 pages.
Norton	4	<p>pl. 1. Map showing construction materials and geology of Norton County, Kansas. 1"-1 mile. Blue-line print. Geology by H. V. Beck and C. H. Bearman.</p> <p>fig. 1. Index map of Kansas. Photostat.</p> <p>fig. 2. Geologic cross section of the valley of North Fork Solomon River.</p> <p>fig. 3. Outcropping stratigraphic units in Norton County, Kansas, and their construction materials. Photostat.</p>	Report: Construction materials in Norton County, Kansas, by F. E. Byrne, H. V. Beck, and C. H. Bearman. 64 pages.
Rooks	4	<p>pl. 1. Map showing construction materials and geology of Rooks County, Kansas, by F. E. Byrne, H. V. Beck, and M. S. Houston. 1"-1 mile. Blue-line print.</p> <p>fig. 1. Index map of Kansas.</p> <p>fig. 2. Geologic cross section from Bow Creek south to the South Fork Solomon River.</p> <p>fig. 3. Outcropping stratigraphic units in Rooks County, Kansas, and their construction materials.</p>	Report: Construction materials in Rooks County, Kansas, by F. E. Byrne, H. V. Beck, and M. S. Houston. 30 pages.

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Construction materials	9/27/48	KANSAS (continued)	Reports on construction materials of seven Kansas counties released.		Reports and maps in open file listed in box below.
		County	No. of maps	Maps in open file	Remarks
		Smith	3	pl. 1. Index map of Kansas. Photostat. pl. 2. Geologic cross section of the Solomon River Valley. Photostat. pl. 3. Map showing construction materials and geology of Smith County, Kansas. Blue-line print. 1"-1 mile.	Area surveyed and mapped in the summer of 1947. Geology by M. S. Houston and M. R. Mudge. Report: Construction materials in Smith County, Kansas, by F. E. Byrne, M. S. Houston, and M. R. Mudge. 67 pages.
Construction materials	9/1/48	MONTANA state-wide	Montana resources mapped.	Missouri Basin Studies No. 11, Chromolith; price 90¢. Map showing construction resources and nonmetallic resources of Montana, by M. M. Knechtel, D. M. Larrabee, E. C. Fischer, A. F. Shride, P. S. Clabaugh, E. L. Fox, R. P. Bryson, and I. G. Schm. 1:750,000.	Text: Construction materials and nonmetallic resources of Montana. Printed on sheet with map. Prepared with the cooperation of the Montana State Bureau of Mines and Geology. Available from the Director.
Construction materials	4/14/48	NEBRASKA state-wide	New map shows construction materials and nonmetallic mineral resources of Nebraska.	Missouri Basin Studies No. 15, Chromolith; price 40¢. Construction materials and nonmetallic mineral resources of Nebraska, by R. W. Richards, R. A. Weeks, and D. M. Larrabee. 1"-12 miles (approximately).	Text: Construction materials and nonmetallic resources of Nebraska. (Printed on same sheet with map.) The map is one of a series of state maps being compiled as a part of the program of the Interior Department for the development of the Missouri River Basin. Prepared in cooperation with the Nebraska Geological Survey, Conservation and Survey Division, University of Nebraska, Lincoln, Nebr.
Copper	2/19/48	VIRGINIA Carroll	Report on Gossan Lead, Carroll County, Va., released.	None. The report and accompanying maps are in open file at Rooms 1033 (Library) and 4216, Federal Works Agency Building, Washington, D. C., and the Virginia Geological Survey, Charlottesville, Va. 6 maps (black-line prints) in open file: 1. Index map of the Gossan Lead, Carroll County, Va. 1"-2 miles. 2. Gossan Lead, Carroll County, Va., by N. D. Raman and R. J. Wright. 1:24,000. 1943. 3. Northeast end of the Betty Baker segment, Gossan Lead, by N. D. Raman and R. J. Wright. 1943. 1"-50'. 4. Sections of diamond drill holes, northeast end of Betty Baker segment, Gossan Lead, by N. D. Raman and R. J. Wright. 1"-200'. 5. Structure-contour map, northeast end of the Betty Baker segment, Gossan Lead, by N. D. Raman and R. J. Wright. 1"-200'. 6. Northeast end of the Chestnut Creek segment, Gossan Lead, by N. D. Raman and R. J. Wright. 1"-100'.	Press release placed in open file a report, "The Gossan Lead, Carroll County, Va.," by R. J. Wright and N. D. Raman. 21 pages.
Engineering geology	5/21/48	ALABAMA Antauga	Geologic study of landslide at Prattville, Ala.	None.	Area surveyed and mapped April 1948. Press notice placed a 9-page report, "Geologic study of the landslide at Prattville, Alabama," by D. Hoye Bogle, and accompanying maps in open file at: Rooms 1033 (Library) and G-234, Federal Works Agency Building, Washington, D. C.; field office of the District Engineer, P. O. Box 56, Montgomery, Ala.; office of the State Geologist University, Ala.; Post Office, Prattville, Ala. 3 maps (photostats) in open file: 1. Topographic map of Prattville, Ala., and vicinity showing landslide area. 1"- $\frac{1}{2}$ mile. 2. Diagrammatic section through landslide at Prattville, Ala. 3. Sketch map.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Engineering geology	7/27/48	FRANCE ITALY	Translations of five French papers released.	None.	<p>Press release placed in open file five French translations by Mrs. Severine H. Britt.</p> <ol style="list-style-type: none"> 1. "Choice of materials most suitable for ballast", by Leo Maddalena, describes the properties needed for good railroad ballast material. Five pages. 2. "Special problems caused by the epigenetic alterations of Liassic rocks", by Henry Joly and Ninck, describes damages to the foundation of a building in Nancy due to swelling of a Jurassic shale bed. Seven pages. 3. "Protection of roads against rock falls", by Leo Maddalena, describes the relation between rock falls and the degree of fissuring and the mineralogy of the rocks involved. Four pages. 4. "Geology applied to modern highways", by Leo Maddalena, is a study of the contribution of geologic work to the construction of a heavy-duty highway through rugged terrain in the Apennine Mountains of Italy. Ten pages. <p>The above four papers are from the "Congres International des Mines, de la Metallurgie et de la Geologie Appliquees", vol. 2, Paris, 1935.</p> <ol style="list-style-type: none"> 5. "Tests and researches on building stones", by M. R. L'Hermite and L. Feret, is a detailed report of tests made by the Laboratory of Building and Public Works, Paris, in 1943. Thirty-one pages, twenty-one figures. <p>The translations may be inspected in open files at the Geological Survey, Room 1033 (Library), Federal Works Agency Building, Washington, D. C.; and in Building 12-B, Denver Federal Center, Denver, Colo.</p> <p>A limited number of copies of the translations have been mimeographed and, as long as the supply lasts, copies can be obtained by those directly interested by writing the Director, U. S. Geological Survey, Washington 25, D. C.</p>
Fluorspar	2/28/48	COLORADO El Paso	Fluorspar deposits of St. Peters Dome district, Colorado, studied.	<p>Strategic Minerals Investigations, Preliminary Report 3-21B. Blue-line print; no charge.</p> <p>fig. 1. Paragenesis of the fluorspar deposits in the St. Peters Dome district, El Paso County, Colorado.</p> <p>pl. 1. Index map showing location of the St. Peters Dome district, El Paso County, Colo.</p> <p>pl. 2. Geologic and structural maps of the St. Peters Dome district, El Paso County, Colorado, by T. A. Steven. 1946. 1"-1000'.</p> <p>pl. 3. Geologic map of the Mattie B. fluorspar deposit, St. Peters Dome district, El Paso County, Colo., by T. A. Steven. 1946. 1"-40'.</p> <p>pl. 4. Geologic map of the Duffields fluorspar deposit, St. Peters Dome district, El Paso County, Colo., by T. A. Steven. 1946. 1"-40'.</p> <p>pl. 5. Geologic map of the Timberline fluorspar deposit, St. Peters Dome district, El Paso County, Colo., by R. D. Trace, D. C. Cox, and D. M. Henderson, 1944, and T. A. Steven, 1946. 1"-100'.</p> <p>pl. 6. Geologic maps of the mine workings at the Timberline fluorspar deposits, St. Peters Dome district, El Paso County, Colo., by T. A. Steven. 1946. 1"-40'.</p>	<p>Area surveyed and mapped from 1943-46.</p> <p>Text: The fluorspar deposits of the St. Peters Dome district, El Paso County, Colo., by T. A. Steven.</p> <p>Prepared in cooperation with the Colorado State Geological Survey Board and the Colorado Metal Mining Fund.</p> <p>Only a limited edition of the report is available. Copies may be obtained from the Director.</p>

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Fluorspar	12/3/48	COLORADO Jackson	Report on fluorspar deposits of Northgate district, Colorado, released.	<p>Strategic Minerals Investigations, Preliminary Report 3-220. Blue-line print; no charge.</p> <ol style="list-style-type: none"> 1. Index map of Jackson County, Colorado, showing location of Northgate fluorspar district. 2. Sketch topographic map of the Northgate fluorspar district, Jackson County, Colorado. 3. Composite map of workings, Fluorspar mine, Northgate district, Jackson County, Colorado. 4. Surface and underground maps, Fluorspar mine, Northgate fluorspar district, Jackson County, Colorado. 5. Longitudinal projections and geologic sections, Fluorspar mine, Northgate fluorspar district, Jackson County, Colorado. 6. Geologic and topographic map of the Gero and Penber fluorspar deposits, Northgate fluorspar district, Jackson County, Colorado. 7. Mine workings at the Gero and Penber fluorspar deposits, Northgate fluorspar district, Jackson County, Colorado. 8. Outcrop map of the Fluorine-Camp Creek area, Northgate fluorspar district, Jackson County, Colorado. 9. Map of Baker pit and vicinity, Fluorine claims 1 and 2, Northgate fluorspar district, Jackson County, Colorado. 10. Section and level maps of the U. S. Bureau of Mines exploratory shaft, Fluorine no. 1 claim, Northgate district, Jackson County, Colorado. 11. Maps and projection of the Camp Creek mine, Northgate fluorspar district, Jackson County, Colorado. 	<p>Text: Fluorspar deposits of the Northgate district, Jackson County, Colorado, by D. C. Cox, W. E. B. Benson, T. A. Steven, and R. E. Van Alstine.</p> <p>Area studied and mapped 1943-46 by D. C. Cox, W. E. B. Benson, T. A. Steven, and others.</p> <p>Prepared with the cooperation of the Colorado State Geological Survey Board, and the Colorado Metal Mining Fund.</p>

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Fuels sheet 1

Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Coal	7/23/48	ALABAMA St. Clair	Survey completed of part of Coosa coal field, Ala.	Geology of the Coal City and Fairview Basins, Coosa coal field, St. Clair County, Alabama, by H. E. Rothrock. Price \$1.00 for set of 2 sheets. <u>Sheet 1.</u> Photolith. 1"=1/2 mile (approximately). fig. 1. Columnar section. fig. 2. Geologic map of a part of the Coosa coal field and adjacent areas, St. Clair County, Alabama. Also index map. <u>Sheet 2.</u> Photolith. 1"=1/2 mile (approximately). fig. 4. Map of the Fairview Basin, Coosa coal field, St. Clair County, Alabama, showing coal outcrops and structure. fig. 5. Map showing structure of the Fairview coal bed in part of area shown in figure 4. Also index map.	Text: Geology of the Coal City and Fairview Basins, Coosa coal field, St. Clair County, Alabama, by H. E. Rothrock. (Printed on sheet 1.) Prepared in cooperation with the Geological Survey of Alabama. Available from the Director.
Coal	4/22/48	COLORADO Gunnison Delta	New survey of coking coal deposits in Paonia coal field, Colorado.	Chromolith; price 50¢. Geology of the Paonia coal field, Delta and Gunnison Counties, Colorado, by V. H. Johnson. 1"=4,000'. Also index map, fence diagram, and columnar section.	Text: Geology of the Paonia coal field, Delta and Gunnison Counties, Colorado, by V. H. Johnson. Area surveyed and mapped from 1943-46 by D. A. Andrews, R. C. Robeck, and V. H. Johnson. Prepared in cooperation with the U. S. Bureau of Mines. Available from the Director, U. S. Geological Survey, Washington D. C., and U. S. Geological Survey offices at 230 New Customhouse, Denver, Colo., and 303 Federal Building, Salt Lake City, Utah.
Oil and gas	6/16/48	ALASKA Iniskin Peninsula	Report on Iniskin Peninsula, Alaska, released.	None.	Area studied and mapped by L. B. Kellum and Helmuth Wedow, Jr., in 1944, and C. E. Kirschner and D. L. Minard in 1946. Typewritten text, a geologic map, structure sections, and graphic columnar sections. On open file in offices of the Geological Survey, Room 4217 and 1033 (Library), Federal Works Agency Building, Washington, D. C.; Room 533, Post Office and Court House, Los Angeles, Calif.; Fairbanks, Alaska, and Juneau, Alaska.
Oil and gas	9/9/48	COLORADO Archuleta	Geologic map of southern Archuleta County, Colorado.	Oil and Gas Investigations, Preliminary Map 81. Chromolith; price \$1.00. Geology of southern part of Archuleta County, Colorado, by G. H. Wood, V. C. Kelley, and A. J. MacAlpin. 1"=1 mile. Also index map and structure and graphic sections.	Text: Geology of the southern part of Archuleta County, Colorado, by G. H. Wood, V. C. Kelley, and A. J. MacAlpin. Geologic map by G. H. Wood, V. C. Kelley, and A. J. MacAlpin; stratigraphy and structure contouring by G. H. Wood; compilation by M. J. Cowan. Map is available from the Director, U. S. Geological Survey, Washington 25, D. C., and over-the-counter sale at the Geological Survey offices, 230 New Customhouse, Denver, Colo., and 234 Federal Building, Tulsa, Okla.

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Fuels sheet 2

Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Oil and gas	8/26/48	COLORADO Montrose San Miguel	New map published.	Oil and Gas Investigations, Preliminary Map 93. Chromolith; price 50¢. Geology of the Egnar-Gypsum Valley area, San Miguel and Montrose Counties, Colorado, by W. L. Stokes and D. A. Phoenix. 1"-4,000'. Also index map and 4 cross sections.	Text: Geology of the Egnar-Gypsum Valley area, San Miguel and Montrose Counties, Colorado, by W. L. Stokes. (On same sheet with map.) Area surveyed and mapped in the fall of 1944 and the summer and fall of 1945 by W. L. Stokes, D. A. Phoenix, R. P. Fischer, and L. E. Smith. Available from the Director, U. S. Geological Survey, Washington, D. C., and over-the-counter sale at 303 Federal Building, Salt Lake City, Utah; 230 New Customhouse, Denver, Colo.; and 234 Federal Building, Tulsa, Okla.
Oil and gas	12/31/48	MICHIGAN	Possible new oil and gas pools in Michigan	Oil and Gas Investigations, Preliminary Chart 33. Photolith; price 75¢ per set of 2 sheets. Thickness and lithology of Upper Ordovician and lower and middle Silurian rocks in the Michigan Basin, by G. V. Cohee.	Text: Upper Ordovician and lower and middle Silurian rocks in the Michigan Basin, by G. V. Cohee. (Printed on sheet 2.) Prepared in cooperation with the Michigan Geological Survey Division, Department of Conservation, and the Department of Geology, University of Michigan. Available from the Director, U. S. Geological Survey, Washington 25, D. C., and the Geological Survey Division, State Department of Conservation, Lansing 13, Mich.
Oil and gas	4/30/48	MISSISSIPPI northeastern ALABAMA northwestern	Chart shows Cretaceous rocks in northeastern Mississippi and northwestern Alabama.	Oil and Gas Investigations, Preliminary Chart 35. Photolith; price 50¢. Correlation of pre-Selma Upper Cretaceous rocks in northeastern Mississippi and northwestern Alabama, by D. H. Eargle. Also graphic and structure sections and index map.	Text: Correlation of pre-Selma Upper Cretaceous rocks in northeastern Mississippi and northwestern Alabama, by D. H. Eargle. (Printed on same sheet with map.) Available from the Director.
Oil and gas	8/6/48	MONTANA	New chart shows correlation of Jurassic rocks in Montana.	Oil and Gas Investigations, Preliminary Chart 32. Photolith; price 50¢. Marine Jurassic formations of Montana, by R. W. Imlay, L. S. Gardner, C. P. Rogers, Jr., and H. D. Hadley. Also index map, columnar sections, and correlations.	Text: Marine Jurassic formations of Montana, by R. W. Imlay, L. S. Gardner, C. P. Rogers, Jr., and H. D. Hadley. (Printed on same sheet with chart.) Available at Geological Survey offices at 315 Federal Building, Billings, Mont.; 230 New Customhouse, Denver, Colo.; 234 Federal Building, Tulsa, Okla.; and 305 Federal Building, Casper, Wyo.
Oil and gas	9/28/48	MONTANA Liberty	New map shows oil and gas possibilities in Liberty County, Montana.	Oil and Gas Investigations, Preliminary Map 87. Chromolith; price 60¢. Geology of the Lothair area, Liberty County, Montana, by C. E. Erdmann. 1"-4,000'. Also index map, columnar section, and graphic log.	Text: Geology of the Lothair area, Liberty County, Montana. (Printed on same sheet with map.) Area surveyed and mapped June 1946 to February 1947 by G. W. Beer and J. W. Nordquist under the direction of C. E. Erdmann. Prepared as part of the program of geologic mapping and mineral investigations in the Missouri River Basin. Copies may purchased from the Director and over-the-counter sale at the Geological Survey offices at 315 Federal Building, Billings, Mont.; 230 New Customhouse, Denver, Colo.; 234 Federal Building, Tulsa, Okla.; and 305 Federal Building, Casper, Wyo.

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Fuels sheet 3

Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Oil and gas	2/5/48	NEW MEXICO Rio Arriba	Map released showing geology of eastern side of San Juan Basin, New Mexico.	Oil and Gas Investigations, Preliminary Map 78. Chromolith; price \$1.00. Geologic map of part of eastern San Juan Basin, Rio Arriba County, New Mexico, by C. H. Dane. 1"-1 mile. Also list of wells drilled for oil or gas, an index map, and a generalized section of the rocks exposed.	Text: Geology and oil possibilities of the eastern side of San Juan Basin, Rio Arriba County, New Mexico, by C. H. Dane. Geology by C. H. Dane, R. P. Bryson, W. G. Pierce, C. H. Hunt, G. F. Brown, and B. N. Cooper in 1933, 1936, 1937, and 1938. Copies may be purchased from the Director, U. S. Geological Survey, Washington 25, D. C., and over-the-counter sale at the Geological Survey offices at Room 234, Federal Building, Tulsa, Okla., and Room 230 New Customhouse, Denver, Colo.
Oil and gas	8/12/48	OHIO southeastern PENNSYLVANIA southwestern WEST VIRGINIA northern	Oil and gas possibilities of Berea and Murrys ville sands.	Oil and Gas Investigations, Preliminary Map 89. Chromolith; price 60¢. Map of the Berea sand of southeastern Ohio, southwestern Pennsylvania, and northern West Virginia, by J. F. Pepper, D. F. Demarest, R. D. Holt, W. de Witt, Jr., and C. W. Merrels, 2d, assisted by M. E. Cather, G. M. Everhart, M. E. Galpin, and G. Soam. Revised by D. F. Demarest and W. de Witt, Jr. 1"-3 miles. Also index map, cross section, and diagram.	Text: Sands of Berea and Murrys ville age in southeastern Ohio, northern West Virginia, and southwestern Pennsylvania, by D. R. Demarest and W. de Witt, Jr. Prepared with the cooperation of the Geological Survey of Ohio, the Pennsylvania Topographic and Geologic Survey, and the West Virginia Geological Survey. The present map is a revision of Preliminary Map 29.
Oil and gas	8/3/48	PURTO RICO	Geology of the coastal plains of Puerto Rico mapped.	Oil and Gas Investigations, Preliminary Map 85. Chromolith; price \$1.00 for set of 2 maps. Tertiary geology of the coastal plains of Puerto Rico, by A. D. Zapp, H. R. Berquist, and C. R. Thomas. <u>Sheet 1.</u> 1"-5 miles (approx.) fig. 1. Geologic map of the north coastal plain of Puerto Rico. fig. 2. Index map. fig. 3. Diagrammatic east-west section showing stratigraphic relationship of exposed Tertiary rocks in north coastal plain. fig. 4. Cross sections of Tertiary rocks of the north coastal plain. <u>Sheet 2.</u> 1"-1 mile (approximately). Index map. fig. 5. Geologic map of the south coastal plain of Puerto Rico. fig. 6. Structure cross sections and generalized stratigraphic sections of the south coastal plain. fig. 7. Index map of Puerto Rico showing areas of outcrop of Tertiary rocks.	Text on sheet 2. Area surveyed and mapped during the fall and winter of 1944-45. Map available from the Director.
Oil and gas	5/28/48	TEXAS Coleman Concho McCulloch Runnels	North-central Texas oil- and gas-bearing rocks correlated on new chart.	None.	Press notice placed a report, "Lower Permian rocks of the Colorado River Valley, north-central Texas", by R. C. Moore, in open file at Geological Survey offices in 234 Federal Building, Tulsa, Okla.; Room 4240, Federal Works Agency Building, Washington, D. C.; office of the Director, Texas Bureau of Economic Geology, Austin, Texas; and at the State Geological Survey of Kansas, Lawrence, Kansas. Van dyke negatives suitable for reproduction by standard blue-printing methods are also on deposit at these offices.

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Fuels sheet 4

Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Oil and gas	1/26/48	UTAH southeast	New geologic map of southeast Utah released.	Oil and Gas Investigations, Preliminary Map 70. Chromolith; price 50¢. Geologic map of eastern and southern Utah, by D. A. Andrews and C. B. Hunt. 1:500,000. Also index map.	No text. Prepared in cooperation with the University of Utah. Available from the Director, U. S. Geological Survey, Washington 25, D. C., and over-the-counter sale at 305 Federal Building, Casper, Wyo.; 314 Boston Building, Denver, Colo.; 303 Federal Building Salt Lake City, Utah; and 234 Federal Building, Tulsa, Okla.
Oil and gas	5/12/48	UTAH Carbon	Bituminous sandstone deposits near Sunnyside, Utah, studied.	Oil and Gas Investigations, Preliminary Map 86. Chromolith; price 50¢. Geology of the bituminous sandstone deposits near Sunnyside, Carbon County, Utah, by C. N. Holmes, B. M. Page, and P. Averitt. 1"-500'. fig. 1. Geologic map of bituminous sandstone deposits near quarries of the Rock Asphalt Company of Utah. fig. 2. Map showing distribution of bituminous sandstone deposits near Sunnyside, Carbon County, Utah. fig. 3. Columnar section measured along line A-A' on figure 1.	Text: Geology of the bituminous sandstone deposits near Sunnyside, Carbon County, Utah. (Printed on same sheet with map.) Area surveyed and mapped in 1945 by C. N. Holmes, B. M. Page, and P. Averitt. The map is available from the Director and for over-the-counter sale at Geological Survey field offices at 303 Federal Building, Salt Lake City, Utah; 305 Federal Building, Casper, Wyo.; 230 New Customhouse, Denver, Colo.; and 234 Federal Building, Tulsa, Okla.
Oil and gas	2/25/48	WYOMING Big Horn	New map shows mineral resources of part of Bighorn Basin, Wyoming.	Oil and Gas Investigations, Preliminary Map 77. Chromolith; price 60¢. Geologic and structure contour map of the Basin-Greybull area, Big Horn County, Wyoming, by W. G. Pierce. 1"-4,000'. Also index map.	Geology mapped in 1945 by W. G. Pierce, V. C. Kalley, C. O. Johnson, L. B. Underwood, and F.A. Hewitt. Text: The Basin-Greybull area, Big Horn County, Wyoming, by W. G. Pierce. Prepared as part of the geologic mapping and mineral resource investigations of the Missouri River Basin. Available from the Director, and over-the-counter sale at the U. S. Geological Survey offices, 305 Federal Building, Casper, Wyo.; 230 New Customhouse, Denver, Colo.; 234 Federal Building, Tulsa, Okla.; and 315 Federal Building, Billings, Mont.
Oil and gas	5/3/48	WYOMING Big Horn Washakie	New map will aid oil prospecting in parts of Bighorn Basin, Wyoming.	Oil and Gas Investigations, Preliminary Map 84. Chromolith; price 90¢. Geology of the Worland-Hyattville area, Big Horn and Washakie Counties, Wyoming, by C. P. Rogers, Jr., P. W. Richards, and L. C. Conant. 1"-4,000'. Also index map and graphic sections.	Text: Geology of the Worland-Hyattville area, Big Horn and Washakie Counties, Wyoming, by Rogers Richards. On same sheet with map. Area surveyed and mapped between May and October 1946. Prepared as part of the program of the Interior Department for the development of the Missouri River Basin. The map may be purchased from the Director, U. S. Geological Survey, Washington 25, D. C., and over-the-counter sale at the Geological Survey offices at 305 Federal Building, Casper, Wyo.; 230 New Customhouse, Denver, Colo.; 234 Federal Building, Tulsa, Okla.; and 315 Federal Building, Billings, Mont.

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Fuels sheet 5

Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Oil and gas	7/28/48	WYOMING Fremont Hot Springs	New map will aid oil and gas prospecting in central Wyoming.	Oil and Gas Investigations, Preliminary Map 91. Chronolith; price \$1.00 per set. Geology of the Boysen area, central Wyoming, by H. A. Tourtelot and R. M. Thompson. <u>Sheet 1.</u> fig. 1. Geology of the Boysen area, central Wyoming. fig. 2. Structure section along line A-B-C. fig. 3. Structure section along line D-E. fig. 4. Sketch map showing relation of Boysen area to the Wind River Basin and the surround- ing mountains. fig. 5. Sketch map showing areas mapped by individuals. <u>Sheet 2.</u> fig. 1. Composite stratigraphic section of rocks exposed in the Boysen area, central Wyoming. fig. 2. Birdseye Creek section of brightly colored facies of Wind River formation showing re- lations of "Wasatchian" and "Bridgerian" fossils. fig. 3. Diagrammatic cross sec- tion showing apparent relations of facies.	Area surveyed and mapped from April to October 1946. Available from the Director, U. S. Geological Survey, Washing- ton 25, D. C.; at U. S. Geological Survey offices at 305 Federal Building, Casper, Wyo.; 230 New Customhouse, Denver, Colo.; 234 Federal Building, Tulsa, Okla.; and 315 Federal Building, Billings, Mont. Text (on sheet 1): Structural geology and oil and gas possi- bilities of the Boysen area, central Wyoming. Text (on sheet 2): Stratigraphy of the Boysen area, central Wyoming. Geologic mapping by H. A. Tourtelot, R. M. Thompson, W. de Witt, Jr., and R. A. Christman. Prepared as part of the program of the Interior Department for the development of the Missouri River Basin. Prepared with the cooperation of the Geological Survey of Wyo- ming, and the Department of Geology, University of Wyoming.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Geochemistry	12/28/48		Translations of six Russian papers on geochemical prospecting for ores released.	None.	<p>Translations of six Russian articles on geochemical prospecting for ores have been placed in open file by the U. S. Geological Survey. These translations were prepared in conjunction with the Geological Survey's program of research on the analysis of soil, vegetation, and water as a method of locating buried mineral deposits.</p> <p>Six translations in open file listed below:</p> <ol style="list-style-type: none"> 1. Field spectroanalytical laboratory for servicing prospecting parties: Razvedka Nedr., vol. 10, no. 1, pp. 38-41, 1939. By E. A. Ratsbaum. Translated by V. P. Sokoloff. 2. Geochemical method of prospecting for ore deposits: Materials of the Soviet Union Geological Institute, Geophysics, Fascicle 9-10, pp. 3-55, 1941. By E. A. Sergeev. Translated by V. P. Sokoloff. 3. Water analysis as a means of prospecting for metallic ore deposits: By E. A. Sergeev. Razvedka Nedr., vol. 12, no. 2, pp. 51-55, 1946. Translated by H. E. Hawkes. 4. A new luminoscope for field use: Razvedka Nedr., vol. 12, no. 5, pp. 41-42, 1946. By E. A. Sergeev. Translated by V. P. Sokoloff. 5. Ionic (electrode polarization) method of geophysical prospecting: Materials of the Central Geological and Prospecting Institute, Geophysics, Fascicle 3, pp. 1-10, 1937. By E. A. Sergeev and A. P. Solovov. Translated and abstracted by H. E. Hawkes. 6. On a physico-chemical method of prospecting for molybdenum in the semidesert climate of the northern Lake Balkhash area: Razvedka Nedr., vol. 12, no. 2, pp. 34-39, 1946. By N. I. Tikhomirov and S. D. Miller. Translated by H. E. Hawkes. <p>Copies of these translations have been placed in open file. They may be examined at the following Geological Survey offices: Room 1033 (Library), Federal Works Agency Building, Washington, D. C.; Room 13, Post Office Building, Knoxville, Tennessee; Room G-232, Federal Works Agency Building, Washington, D. C.; Science Hall, University of Wisconsin, Madison, Wisconsin; Building 12-B, Federal Center, Denver, Colo.; 707 Peyton Building, Spokane, Wash.; and Room 105, Old Mint Building, San Francisco, Calif. The copy on deposit at the Geological Survey library is available for loan through regular interlibrary loan procedures.</p>
Geophysics	6/25/48	BIKINI	Bikini Atoll mapped with airborne magnetometer.	None.	<p>Area surveyed and mapped in the summer of 1947.</p> <p>Prepared as part of a project of volcano research conducted by the Geological Survey in cooperation with the Naval Ordnance Laboratory and sponsored by the Office of Naval Research.</p> <p>Press notice placed a map, "Bikini Atoll magnetic field total intensity anomaly contour map", by L. R. Alldredge, in open file at offices of the Geological Survey, Room 1033 (Library), Federal Works Agency Building, Washington, D. C.; 333 Federal Building, Honolulu, T. H.; and at the Navy Department, Office of Naval Research, Washington, D. C. A limited number of copies are available for distribution to interested parties. The map is accompanied by a short text.</p>
Geophysics	4/28/48	INDIANA Jasper Lake Newton Porter Pflaaski White	Preliminary report released on aeromagnetic survey in northwestern Indiana.	None.	<p>Press release placed in open file an 11-page mimeographed report, "Preliminary report on an experimental aeromagnetic survey in northwestern Indiana", by H. R. Joesting and J. R. Henderson. (To accompany Geophysical Investigations Preliminary Map 4, placed in open file 6/1947.)</p> <p>The above report and accompanying maps are in open file at the U. S. Geological Survey, G-232 and 1033 (Library), Federal Works Agency Building, Washington, D. C.; office of the State Geologist, Owen Hall, Indiana University, Bloomington, Ind.; office of the Oil and Gas Supervisor, State Department of Conservation, Indianapolis, Ind.</p> <p>2 maps (brown-line prints) in open file:</p> <ol style="list-style-type: none"> 1. Aeromagnetic map of part of northwestern Indiana showing anomalies in total intensity. 1"-2 miles. Also index map. 2. Aeromagnetic map of part of northwestern Indiana showing residual anomalies in total intensity. 1"-2 miles.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Geo- physics	12/3/48	PENNSYLVANIA Bucks	Pennsylvania area mapped for ground water by electrical- resistivity methods.	None.	Area surveyed and mapped from April to May 1947. Press notice placed in open file a 39-page report, "Electrical resistivity survey of the Bristol, Pennsylvania, area—A preliminary report", by H. Cecil Spicer. The report includes a map showing the locations of resistivity depth profiles, well locations, cross sections based on electrical properties of subsurface materials, a map of the probable bedrock surface, and a brief text. In open file at the following U. S. Geological Survey offices: Rooms 1033 (Library) and 2209, Federal Works Agency Building, Washington 25, D. C.; and at the office of the Ground Water Division, Academy of Natural Sciences, Philadelphia, Pa. 9 illustrations (photolith) in open file: 1. Maps of the Bristol area, Pennsylvania, showing locations of resistivity stations and drill holes. 2. Profile AA'. 3. Profile BB'. 4. Profile CC'. 5. Profile DD'. 6. Profile EE'. 7. Profile FF'. 8. Profiles GG', HH', II', JJ', and KK'. 9. Map showing resistivity line locations, directions, altitude of bedrock, and buried channels, Bristol area, Pennsylvania.
Geo- physics	8/26/48	TENNESSEE Shelby Hardeman Fayette	Ground water survey by electrical survey.	None.	Area surveyed and mapped March 1947. Press notice placed a 15-page report, "Electrical resistivity investigations at Memphis and Bolivar, Tennessee", by H. C. Spicer, in open file at U. S. Geological Survey offices, Rooms 1033 (Library) and 2209, Federal Works Agency Building, Washington, D. C., and at the Ground Water Division office, U. S. Geological Survey, Army General Depot, Memphis, Tenn. 10 maps (photostats) in open file: 1. Location of resistivity lines and related drill holes, Memphis, Tennessee. 2. Comparison of drill logs and interpretations, Memphis resistivity in 10^3 ohm cms. 3. Comparison of drill logs and interpretations, Memphis resistivity in 10^3 ohm cms. 4. Comparison of drill logs and interpretations, Memphis resistivity in 10^3 ohm cms. 5. Comparison of drill logs and interpretations, Memphis resistivity in 10^3 ohm cms. 6. Location of resistivity lines and related drill holes, Bolivar, Tennessee. 7. Location of resistivity lines and related drill holes, Bolivar, Tennessee. 8. Comparison of drill logs and interpretations, Bolivar resistivity in 10^3 ohm cms. 9. Comparison of drill logs and interpretations, Bolivar resistivity in 10^3 ohm cms. 10. Porters Creek formation boundary as determined by resistivity methods.
Geo- physics	4/18/48	TEXAS LOUISIANA	Existence of salt domes on continen- tal shelf indicated.	None.	Text: Reconnaissance gravity survey in the Gulf of Mexico, by H. R. Joesting and J. D. Frautschy. (On same sheet with map.) Press release placed in open file a gravimetric map, "Reconnaissance gravity map of part of Gulf of Mexico", by H. R. Joesting and J. D. Frautschy. Area surveyed and mapped July to October 1947. Prepared in cooperation with the Navy Department of Naval Research. The map may be examined at the following offices where it is in open file: U. S. Geological Survey offices in Washington, D. C.; field offices located in Room 234, Federal Building, Tulsa, Okla.; Room 712, City Hall, Houston, Texas; 302 West 15th Street, Austin, Texas; at the offices of the State Geologists of Louisiana, at University Station, Baton Rouge, and of Texas at the Bureau of Economic Geology, University of Texas, Austin, Texas.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Geo- physics	8/6/48	WYOMING Big Horn Hot Springs Park MONTANA Carbon	Aeromagnetic profiles of the Bighorn Ba- sin, Wyoming.	None.	Brief text on map sheet. Press release placed in open file a brief report, "Aeromagnetic profiles of the Bighorn Basin, Wyoming". The report is accom- panied by an index map, map of Bighorn Basin showing approximate locations of aeromagnetic profiles, and three columns of profiles. Data by J. R. Balsley, H. E. Hawkes, and R. D. Thurmond. Prepared in cooperation with the Office of Naval Petroleum and Oil Shale Reserve. The profiles and text may be examined at the U. S. Geological Survey Library (Room 1033) and Room G-232, Federal Works Agency Building, Washington, D. C.; 315 Federal Building, Billings, Mont.; Science Hall, University of Wyoming, Laramie, Wyo.; and the office of the Conserva- tion Branch, Department of the Interior, 305 Federal Building, Casper, Wyo. Copies held at these offices are suitable for duplicating by the osalid process.
Gold	10/28/48	WYOMING Fremont	Report issued on Atlantic City- South Pass mining district, Wyoming.	None.	Press notice placed a 65-page report, "Geology and ore deposits of the Atlantic City-South Pass mining district, Wyoming," by F. C. Armstrong, in open file at U. S. Geological Survey offices, Rooms 1033 (Library) and 4216, Federal Works Agency Building, Washington, D. C.; 305 Federal Building, Casper, Wyo.; and S. 157 Howard Street, Spokane, Wash. Area studied and mapped from February 1946 to May 1947. 8 maps (some hand-colored) in open file: 1. Geologic map, South Pass City and vicinity, Fremont County, Wyoming. 1"-2,000' (approximately). 2. Carissa mine, Fremont County, Wyoming. 3. Topographic and geologic map, Carissa mine, Fremont County, Wyoming. 1"-60'. 4. Composite map of underground workings, Carissa mine, Fremont County, Wyoming. 1"-30'. 5. Geology of second level, Carissa mine, Fremont County, Wyoming. 1"-30'. 6. Geology of thrid level, Carissa mine, Fremont County, Wyoming. 1"-30'. 7. Cross sections, Carissa mine, Fremont County, Wyoming. 1"-60'. 8. Vertical longitudinal projection, Carissa mine, Fremont County, Wyoming. 1"-60'.
Lead- zinc	4/6/48	ALASKA southeast	Berg Basin, Alaska, lead-zinc occur- rence studied.	None.	Press release placed a 4-page report, "Preliminary report on a lead-zinc occurrence at Berg Basin Wrangell District, southeastern Alaska", by R. G. Ray, 1947, and 4 maps in open file at U. S. Geolo- gical Survey offices in Room 1033 (Library) and Room 4217, Federal Works Agency Building, Washington, D. C., and at Fairbanks and Juneau, Alaska. 4 maps (photostat) in open file: 1. Sketch map of the vicinity of Wrangell showing location of Berg Basin. 2. Geologic sketch map of the vicinity of Berg Basin, Wrangell District, southeastern Alaska. 3. Sketch map showing relation of surface geology to diamond drill hole no. 2, Berg prospect, southeastern Alaska. 4. Geologic map of underground workings, Berg prospect, southeastern Alaska.
Lead- zinc	7/28/48	WISCONSIN Grant	Geologic structure map of the Potosi lead-zinc area, Grant County, Wisc.	Strategic Minerals Investigations, Preliminary Map 3-221. Blue-line print; no charge. Geologic structure map of the Potosi lead-zinc area, Grant County, Wisconsin, by A. V. Heyl, Jr., E. J. Lyons, A. E. Agnew, and J. J. Theiler.	No text. Prepared in cooperation with the Wisconsin Geological and Natural History Survey. Available from the Director.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Magnesite- brucite	11/8/48	NEVADA Nye	Geologic report released on magnesite and brucite at Gabbs, Nevada.	None.	Press release placed in open file a report, "Magnesite and brucite deposits at Gabbs, Nye County, Nevada", by Eugene Callaghan and Charles Vitaliano. The maps and reports are in open file at the U. S. Geological Survey Rooms 1033 (Library) and 4212, Federal Works Agency Building, Washington, D. C.; and at the office of the Director of the Nevada Bureau of Mines, McKay School of Mines, Reno, Nev.
Manganese	10/20/48	BRAZIL Serra de Navio	Report on Serra de Navio manganese district, Brasil, released.	None.	Press release placed in open file "Serra de Navio manganese district, Territory of Amapa, Brasil", by J. V. N. Dorr, 2d, and P. W. Guild. Prepared in cooperation with the Departamento Nacional de Producao Mineral, Republic of Brasil. Maps and report in open file at the U. S. Geological Survey, Rooms 1033 (Library) and 4209, Federal Works Agency Building, Washington, D. C., and at the office of the Departamento Nacional de Producao Mineral, and at the United States' Embassy in Rio de Janeiro, Brasil. 5 maps (black-line prints) in open file: 1. Map of the Amapari-Araguari River systems, Federal Territory of Amapa, Brasil. 1"-10 kilometers. 2. Map showing relative positions of manganese deposits, Serra de Navio district. 1"-500 meters. 3. Maps of the Clemente I, Navio, De Paiva, and Frits Ackermann deposits. 1"-50 meters. 4. Map of part of the Chumbo area, showing manganese deposits. 1"-50 meters. 5. Index map showing the location of the Serra de Navio district. 1"-100 miles.

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Maps index sheet 1

Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Maps index	5/12/48	COLORADO state-wide	Geologic map index of Colorado issued.	Index to geologic mapping in the United States, Chromolith; price 70¢. Geologic map index of Colorado, compiled by Leona Boardman and Annabel Brown. 1"-12 miles (approximately).	Explanation printed on map margin. Copies may be purchased from the Director and are available for over-the-counter sale at the Geological Survey office at 230 New Customhouse, Denver, Colo.
Maps index	4/2/48	IOWA state-wide	Geologic map index of Iowa issued.	Index to geologic mapping in the United States, Chromolith; price 35¢. Geologic map index of Iowa, compiled by Leona Boardman and Annabel Brown. 1"-12 miles (approximately).	An explanation printed on the margin of the index gives the source of publication, scale, date, and author of each geologic map. Available from the Director.
Maps index	7/7/48	KANSAS state-wide	Geologic map index of Kansas issued.	Index to geologic mapping in the United States, Chromolith; price 30¢. Geologic map index of Kansas, compiled by Leona Boardman and Annabel Brown. 1"-12 miles (approximately).	Explanatory key placed on the border of the index gives the source of publication, scale, date, and author of each geologic map. Available from the Director, and over-the-counter sale at the Geologic Survey field offices at 230 New Customhouse, Denver, Colo., and 234 Federal Building, Tulsa, Okla.
Maps index	4/4/48	NEBRASKA state-wide	Geologic map index of Nebraska issued.	Index to geologic mapping in the United States, Chromolith; price 35¢. Geologic map index of Nebraska, compiled by Leona Boardman and Annabel Brown. 1"-12 miles (approximately).	Explanation is printed on the margin of the index and gives the source of publication, scale, date, and author of each geologic map. Available from the Director.
Maps index	5/7/48	NORTH DAKOTA state-wide	Geologic map index of North Dakota issued.	Index to geologic mapping in the United States, Chromolith; price 40¢. Geologic map index of North Dakota, compiled by Leona Boardman and Annabel Brown. 1"-12 miles (approximately).	Explanation printed on the margin of the index gives the source of publication, scale, date, and author of each geologic map. Available from the Director and over-the-counter sale at the Geological Survey offices at 230 New Customhouse, Denver, Colo.
Maps index	7/14/48	SOUTH DAKOTA state-wide	Geologic map index of South Dakota issued.	Index to geologic mapping in the United States, Chromolith; price 30¢. Geologic map index of South Dakota, compiled by Leona Boardman and Annabel Brown. 1"-12 miles (approximately).	Explanatory key on map border gives the source of publication, scale, date, and author of each geologic map. Available from the Director and over-the-counter sale at the Geological Survey offices at 230 New Customhouse, Denver, Colo.; 234 Federal Building, Tulsa, Okla.; and 315 Federal Building, Billings, Mont.
Maps index	12/29/48	UTAH state-wide	Geologic map index of Utah issued.	Index to geologic mapping in the United States, Chromolith; price 25¢. Geologic map index of Utah, compiled by Leona Boardman. 1"-12 miles (approximately).	Explanation printed on map margin. Available from the Director.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Metallic minerals	11/4/48	MISSOURI state-wide	Map released showing metal-mining regions of Missouri.	Missouri Basin Studies No. 18, Chromolith; price 20¢. Metallic mineral deposits of Missouri, by V. S. Neuschel and E. T. McKnight. 1"-16 miles (approximately).	Text: Metallic mineral deposits of Missouri, by V. S. Neuschel and E. T. McKnight. Prepared with the cooperation of the Missouri Geological Survey and Water Resources. The map is available from the Director.
Metallic minerals	2/29/48	WYOMING state-wide	Map released showing metal-mining districts of Wyoming.	Missouri Basin Studies No. 17, Chromolith; price 20¢. Metallic mineral deposits of Wyoming, by R. P. Fischer, A. B. Griggs, H. Cannon, and M. Kreiger. 1:1,000,000. Also index map.	Text: Metallic mineral deposits of Wyoming, by R. P. Fischer. Prepared with the cooperation of the Geological Survey of Wyoming. Available from the Director and over-the-counter sale at Geological Survey offices at 230 New Customhouse, 19th and California Streets, Denver, Colo., and 305 Federal Building, Casper, Wyo.
Mica	4/20/44	SOUTH DAKOTA	South Dakota mica deposits.	None.	Press release placed in open file 10 maps on South Dakota mica deposits. Other maps will be added to the list when issued. Maps in open file at the offices of the U. S. Geological Survey, Washington, D. C., and Custer, S. Dak., where they may be consulted. Maps in open file in box below:

County	Release date	Maps in open file	Remarks
Custer	2/2/48	Two maps (blue-line prints): 1. Geologic map, Old Mike mica mine, Custer County, S. Dak. 11/1944. 1"-25'. 2. Geologic sections and underground maps, Old Mike mica mine, Custer County, S. Dak. 1"-25'. 1942-44.	By T. A. Steven, L. R. Page, and J. R. Adams. By L. R. Page, T. A. Steven, and J. J. Norton.
Custer	6/11/48	One map (blue-line print): 1. Geologic maps and sections, Earl Lode, Custer County, S. Dak. 7/1945. 1"-20'.	By L. R. Page. Topography by the U. S. Bureau of Mines.
Custer	6/11/48	One map (blue-line print): 1. Geologic maps, Glenwood mica mine, Custer County, S. Dak. 7/1945. 1"-20'.	Geology by L. R. Page, J. B. Hanley, and M. P. Erickson.
Custer	10/8/48	1. Geologic map and sections, Crown and Ballard mica mines, Custer County, S. Dak. 2. Underground maps, Crown and Ballard mica mines, Custer County, S. Dak.	By L. R. Page, W. C. Stoll, and J. B. Hanley; revised by M. P. Erickson.
Custer Pennington	6/11/48	One map (blue-line print): 1. Geologic map, Hunter and Louise claims, Pennington and Custer Counties, S. Dak. 11/1944. 1"-50'.	Geology by L. R. Page and T. A. Steven.
Pennington	8/10/48	One map (blue-line print): 1. Geologic maps, underground workings and geologic sections of the Bob Ingersoll pegmatite mine, Pennington County, S. Dak.	Geology by J. B. Hanley, L. R. Page, M. P. Erickson, J. W. Adams, A. F. Frites, Jr., and T. A. Steven.
Pennington	10/8/48	One map: 1. Geologic map and cross sections, Lyke Lode, Pennington County, S. Dak.	By L. R. Page.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Mineral resources	9/30/48	NORTH DAKOTA Divide Williams	Report and map issued on geology of Zahl no. 4 quadrangle, N. Dak.	None.	<p>Press notice placed in open file a 10-page report, "Preliminary report on the geology of the Zahl no. 4 quadrangle, N. Dak.", by G. B. Gott.</p> <p>Area surveyed and mapped in 1946 by G. B. Gott as part of the program of the Interior Department for the development of the Missouri River Basin.</p> <p>Geology by G. B. Gott, R. M. Lindvall, and W. R. Hansen.</p> <p>The report and map are in open file at the Geological Survey Library, Federal Works Agency Building, Washington, D. C., and the office of the State Geologist, University of North Dakota, Grand Forks, N. Dak.</p> <p>1 map (photolith) in open file: Geology of Zahl 4 quadrangle, North Dakota. 1"-4,000'.</p>
Mineral resources	10/4/48	NORTH DAKOTA Divide Williams	Report released on geology of Kermit no. 3 quadrangle, N. Dak.	None.	<p>Press notice placed in open file a 9-page report, "Preliminary report on the geology of Kermit no. 3 quadrangle, North Dakota", by R. M. Lindvall and W. R. Hansen.</p> <p>Geology by R. M. Lindvall and W. R. Hansen.</p> <p>Prepared as part of the program of the Interior Department for the development of the Missouri River Basin.</p> <p>In open file at the U. S. Geological Survey Library (Room 1033), Federal Works Agency Building, Washington, D. C., and the office of the State Geologist, University of North Dakota, Grand Forks, N. Dak.</p> <p>1 map (photolith) in open file: Geology of Kermit no. 3 quadrangle, N. Dak. 1"-4,000'.</p>
Mineral resources	10/7/48	NORTH DAKOTA Divide Williams	Report and map issued on geology of Zahl no. 3 quadrangle, N. Dak.	None.	<p>Press release placed in open file a 12-page report, "Preliminary report on the geology of the Zahl no. 3 quadrangle, N. Dak.", by R. M. Lindvall and W. R. Hansen.</p> <p>Area surveyed and mapped in 1946 as part of the program of the Interior Department for the development of the Missouri River Basin.</p> <p>The report and accompanying map are in open file at the Geological Survey Library (Room 1033), Federal Works Agency Building, Washington, D. C., and the office of the State Geologist, University of North Dakota, Grand Forks, N. Dak.</p> <p>1 map (photolith) in open file: Geology of Zahl 3 quadrangle, North Dakota. 1"-4,000'.</p>
Petro- graphy		HAWAII	Released through monthly press notice of 2/1948.	None.	<p>Press release placed a 149-page report, "The Hawaiian petrographic province", by G. A. MacDonald, in open file at Geological Survey offices at 2209 Federal Works Agency Building, Washington, D. C., and 333 Federal Building, Honolulu, Hawaii.</p> <p>11 illustrations (photolith) in open file:</p> <ol style="list-style-type: none"> 1. Map of the Hawaiian Archipelago. 2. Geologic map of Niihau. 3. Geologic map of Kauai. 4. Geologic map of Oahu. 5. Geologic map of Molokai. 6. Geologic map of Maui. 7. Geologic map of Hawaii. 8. Variation diagram of Hawaiian rocks. 9. Diagram of order of crystallization in olivine basalt. 10. Diagram illustrating a manner of eruption of differing lavas from the same magma chamber. 11. Map of the Pacific Ocean.
Sand and gravel	2/12/48	NEBRASKA state-wide	New map shows sand and gravel deposits of Nebraska.	Missouri Basin Studies No. 7, Chromolith; price 55¢. Preliminary map showing sand and gravel deposits in Nebraska, by R. A. Weeks and D. M. Larrabee. 1"-12 miles (approximately). 1:750,000.	<p>Prepared in cooperation with the Nebraska Geological Survey, Conservation and Survey Division, University of Nebraska.</p> <p>Prepared as part of the program of the Interior Department for the development of the Missouri River Basin.</p> <p>Available from the Director and for over-the-counter sale from the Nebraska Geological Survey, Conservation and Survey Division, University of Nebraska, Lincoln, Nebr.</p>

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Spodumene	6/4/48	SOUTH DAKOTA Pennington	Map of Mateen spodumene pegmatites, Black Hills, South Dakota, released.	Strategic Minerals Investigations, Preliminary Map 3-223. Blue-line print; no charge. 1. Geologic map, Mateen pegmatites, Hill City, Pennington County, S. Dak., by T. A. Steven and M. P. Erickson. 11/1944. 1"-50'. 2. Geologic sections, Mateen pegmatites, Hill City, Pennington County, S. Dak., by M. P. Erickson 1"-50'. 3/1944. 3. Oblique projection, north Mateen pegmatite, Hill City, Pennington County, S. Dak., by M. P. Erickson. 4. Vertical longitudinal projection, north Mateen pegmatite, Hill City, Pennington County, S. Dak., by M. P. Erickson. 3/1945.	No text. Prepared in cooperation with the U. S. Bureau of Mines, Project 3101. Area studied and mapped between August 1944 and April 1945. Available from the Director.
Talc	9/10/48	VERMONT Washington	Maps of Waterbury talc mine, Moretown Vermont, released.	Strategic Minerals Investigations, Preliminary Map 3-225. Blue-line prints; no charge. 1. Geologic surface map, Eastern Magnesia Talc Co., Waterbury mine, Moretown, Vt. 1"-80'. 2. Underground maps, Eastern Magnesia Talc Co., Waterbury mine, Moretown, Vt. 3. Sections I-N. Structure sections, Eastern Magnesia Talc mine, Moretown, Vt. 1"-80'. 4. Sections A-H. Structure sections, Eastern Magnesia Talc Co., Waterbury mine, Moretown, Vt. 5. Structure sections O-T, Eastern Magnesia Talc Co., Waterbury mine, Moretown, Vt. 1"-80'.	No text. Area surveyed and mapped by M. P. Billings and A. H. Chidester from October 1944 to July 1945, January 1948.
Talc	6/4/48	VERMONT Windham	Maps of three Vermont talc mines released	Strategic Minerals Investigations, Preliminary maps 3-224. Blue-line print; no charge. 1. Vermont Talc Company quarry, Windham, Vt., by M. P. Billings and A. H. Chidester. 9/1945. 1"-30'. 2. Hammondsville talc quarry, Reading, Vt., by M. P. Billings and A. H. Chidester. 9/1945. 1"-30'. 3. Barnes Hill talc prospect, Waterbury, Vt., by M. P. Billings and A. H. Chidester. 7-8/1945. 1"-50'.	No text. Available from the Director. Area studied and mapped in late summer of 1945.
Tungsten	11/8/48	NEVADA Humboldt	Geologic report released on northern part of Osgood Mountains, Humboldt County, Nevada.	None. On open file at Geological Survey offices, Room 1033 (Library) and 4216, Federal Works Agency Building, Washington, D. C.; at the Sterling Memorial Library, Yale University, New Haven, Conn.; and at the office of Dr. Jay A. Carpenter, Director, Nevada Bureau of Mines, Reno, Nev. 11 maps (some hand-colored) in open file: fig. 1. Index map of Nevada showing location of the Osgood Mountains area. fig. 2. Sketch of area on quarry face at Valley View mine. pl. 1. Osgood Mountains Quadrangle, Nevada. 1:62,500. pl. 2. Geologic and topographic map of the northern part of the Osgood Mountains, Humboldt County, Nevada. 1:24,000. pl. 3. Detailed map and sections of the Richmond mine area. 1"-100'. pl. 4. Geologic map and sections of the Riley mine. 1"-200'. pl. 5. Detailed geologic map and sections of the Kirby mine area. 1"-50'. pl. 6. Geologic map and sections of the Valley View mine and Pacific prospect. 1"-200'. pl. 7. Geologic map of the Granite Creek tungsten deposit. 1"-200'. pl. 8. Detailed geologic map and sections of the Granite Creek mine area. 1"-50'. pl. 9. Stratigraphic columns of the rock groups in the northern part of the Osgood Mountains.	Press release placed in open file a 97-page report, "Geology of the northern part of the Osgood Mountains, Humboldt County, Nevada", by S. W. Hobbs.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Water resources	3/7/48	WESTERN PACIFIC ISLANDS Guam Rota Tinian Saipan Fais Ponape Kusaie Palau group Yap group Truk group	Report on water resources of Western Pacific Islands released.	None.	<p>Area surveyed and mapped May through September 1946.</p> <p>Press notice placed a 181-page report, "Water resources of Guam and the ex-Japanese mandated islands in the Western Pacific", by A. M. Piper, in open file at the U. S. Geological Survey library, Room 1033, Federal Works Agency Building, Washington, D. C.; at the office of the Ground Water Division of the Geological Survey, Room 333, Federal Building, Honolulu, T. H.; and Engineer Intelligence Division, Office of the Chief Engineer, Far East Command, Tokyo, Japan.</p> <p>30 illustrations (photostats) in open file:</p> <ol style="list-style-type: none"> 1. Index map. 2. Coconut-palm water catch on Pingelap Island. 3. Concrete cistern and rain catch on island of Mukuone Atoll. 4. Relation of fresh water to salt water beneath an oceanic island. 5. Native well on island of Lukunor Atoll. 6. Generalized geologic map of Guam, showing location of principal water sources. 7. Panorama of north end of highland, viewed west from Mt. Tenjo road, Guam. 8. Bedded greenish tuff along Mt. Tenjo road, Guam. 9. Sketch geologic map of Tinian, showing location of wells. 10. Sketch geologic map of Tinian, showing location of wells. 11. Residual soil on potholed coralline limestone. 12. Sketch geologic map of Saipan showing location of wells and springs. 13. Exposure of Donnay shale. 14. Map of the Palau Islands. 15. Land forms on northwest Babelthuap Island. 16. Fall on east fork of Atetuta River. 17. Ridge islands and islets in Iwayama Bay. 18. Jointed basalt on southwest Babelthuap Island. 19. Map of the Yap Islands. 20. General map of the Truk Islands. 21. East slope of Mt. Tumital on Tol Island. 22. Map of Moen Island, Truk Islands. 23. Map of Ponape Island. 24. Panorama of Tawenjokola River Basin. 25. Kapinpilap River, southwestern Ponape. 26. Diversion dam of Lui River, north-central Ponape. 27. Raw-water reservoir of Lui River water works, Ponape. 28. Flume on the Tawenjokola River. 29. General map of Kusaie Island. 30. Rugged topography of central Kusaie Island.
Zinc-lead	9/22/48	COLORADO Lake	Preliminary geologic map of Mosquito Range near Leadville, Colorado, available.	Chromolith; price \$1.00. Preliminary geologic map of west slope of Mosquito Range in the vicinity of Leadville, Colorado. 1939. 1:12,000. By C. H. Behre, Jr., E. N. Goddard, and A. E. Sandburg.	<p>29-page preliminary geologic report accompanies the map, and explains it and contains suggestions for prospecting.</p> <p>Available for over-the-counter sale at the following Geological Survey offices: 230 New Customhouse, Denver, Colo., and 303 Federal Building, Salt Lake City, Utah. Available by mail from the Director.</p> <p>The map was published by the Colorado Scientific Society in 1939 and is still being distributed by them at 50 cents per copy from their office, 214 New Customhouse, Denver 2, Colo.</p>

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Zinc-lead	6/14/48	COLORADO Lake Summit	Map of the Kokomo (Tenmile) zinc-lead mining district, Colorado, released.	None.	Press release placed in open file two maps (north half and south half) showing geology and topography of the Kokomo district. Geology by A. M. Koschmann and F. G. Wells. The map is hand-colored and has a scale of 1:12,000. This new map supercedes earlier maps released in 1944 and 1945, bringing them up to date as of March 1948 and adding over 18 square miles of recently mapped territory. Area surveyed and mapped 1927, 1930, and 1939-40. Prepared with the cooperation of the Geological Survey Board and the Colorado Metal Mining Fund. The maps are available at Geological Survey offices, Rooms 1033 (Library) and 4216, Federal Works Agency Building, Washington, D. C.; Room 230, New Customhouse, Denver, Colo.; and Room 12, Building 12-B, Federal Center, Denver, Colo.
Zinc-lead-talc	4/20/48	NEW YORK St. Lawrence	Zinc, lead, and talc studied in the West Branch area, Gouverneur district, N. Y.	Strategic Minerals Investigations, Preliminary Map 3-222. Multilith; no charge. Geologic map and sections of the West Branch area, Gouverneur district, New York, by A. E. J. Engel, J. J. Page, and C. N. Bozic. 1"-800'. 8/1947. Also index map and vertical projections.	Text: Diamond drilling the West Branch area, Gouverneur district, New York, by A. E. J. Engel.
Zinc-lead	10/1/48	WISCONSIN Lafayette Grant	Zinc-lead deposits of the Hazel Green-Shullsburg area, Wisconsin.	Strategic Minerals Investigations, Preliminary Map 3-216. 2 maps (blue-line print): 1. Key map showing the location of the major zinc ore-body trends of the Hazel Green-Shullsburg area, Lafayette and Grant Counties Wisconsin. 2. Geologic structure map of the Hazel Green-Shullsburg zinc-lead area, Lafayette and Grant Counties, Wisconsin. 1"-1/8 mile.	Text: Zinc-lead deposits of the Hazel Green-Shullsburg area, Lafayette and Grant Counties, Wisconsin, by A. F. Agnew, A. V. Heyl, Jr., C. H. Behre, Jr., and E. J. Lyons. 11 mimeographed pages. Prepared in cooperation with the Wisconsin Geological and Natural History Survey.

ADDENDUM

Conservation Division

PRESS RELEASES ISSUED BY THE CONSERVATION DIVISION OF THE GEOLOGICAL SURVEY
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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Oil and gas	4/27/48	OKLAHOMA Nowata	Report on secondary recovery possibili- ties of the western part of the Dela- ware Childers field.	Free.	113 pages of text, 20 tables and 33 plates. Mimeographed.
Oil and gas	10/20/48	OKLAHOMA Hughes Okfuskee	Report on secondary- recovery possibili- ties of the Olympic field.	Free.	106 pages of text, 16 tables and 34 plates. Mimeographed.
Oil and gas	4/26/48	UTAH	Wells drilled for oil and gas in Utah.	None.	Mimeographed compilation showing the locations, counties, fields, well numbers, operators' names, elevations, surface and bottom-hole geologic formations, producing formations, total depths, and present status of 550 wells drilled for oil and gas in Utah; also 16 pages of historical data, well reference legend, and list of abbreviations.

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Commodity	Release date	STATE County	Title of press release	Maps distributed	Remarks
Water and power	2/15/48	ALASKA	Water power resources of Eklutna Creek, Alaska.	Three manuscript reports, one on power, two on geology.	One report by A. Johnson discusses power; one by A. F. Bateman discusses geology at dam sites; one by F. F. Barnes discusses geology of tunnel location.
Water and power	5/12/48	ALASKA	Map of Eklutna Lake, Alaska.	10¢ sheet, 30¢ set.	Map of Eklutna Lake, dam site, and Eklutna Creek for 4 miles below the lake.
Water and power	2/6/48	ARIZONA	Map of Little Colorado River and tributaries, Arizona.	10¢ sheet, \$1.80 set.	Map of Little Colorado River from Tohatico dam site—Lyman Reservoir 195 miles; Cottonwood, Wash., 43 miles; Leroux, Wash., 36 miles; Puerco River, 39 miles. 185 sheets.
Water and power	5/28/48	COLORADO UTAH	New map of a portion of Colorado River and tributaries, Colorado and Utah.	10¢ sheet, \$1.40 set.	This includes Dewey Reservoir site. It also includes 89 miles of the Colorado River, 22 miles of the Dolores River, and 3 dam sites. 14 sheets.
Water and power	7/13/48	COLORADO	Map of Whitewater reservoir site on Gunnison River, Colo.	10¢ sheet, 20¢ set.	Map shows section of Gunnison River from point 4 miles above mouth to 12 miles above mouth.
Water and power	7/13/48	IDAHO NEVADA	Uses of water in upper Bruneau River.	None.	Press release placed a mimeographed report, "Uses of water in upper Bruneau River," in open file. The report discusses water supply and use in upper Bruneau River, Nevada and Idaho.
Water and power	1/30/48	MONTANA	Maps of Flathead River, Montana.	10¢ sheet, \$1.80 set.	Two sets of maps of Flathead River and 12 dam sites. One set shows Flathead River below the lake with 7 dam sites, the other above the lake with 5 dam sites. 18 sheets.
Water and power	5/7/48	MONTANA	New map of Powder River in south-eastern Montana.	10¢ sheet, 60¢ set.	Map extends from a point 19 miles below Powderville to Moorhead reservoir site, 125 miles.
Water and power	7/20/48	UTAH NEW MEXICO COLORADO	Map of San Juan River and tributaries, Utah, New Mexico, and Colorado.	10¢ sheet, \$1.20 set. Map of San Juan River from Montezuma Creek, Colorado, Los Piños River to mile 10, Piedra River to mile 23. 12 sheets.	No text.
Water and power	5/14/48	WASHINGTON	Map showing Columbia River, Priest Rapids to Rock Island dam, dam site at Priest Rapids, Washington.	10¢ sheet, \$1.10 set. Map of Columbia River, Priest Rapids to Rock Island dam, Priest Rapids dam site, Crab Creek to mile 23 and profile. 11 sheets.	No text.
Water and power	7/10/48	WASHINGTON	Maps showing Columbia River, Swakane Creek to Foster Creek, and dam sites, Washington.	10¢ sheet, \$1.10 set.	Map is in 9 plan sheets, 3 of which show dam sites.
Water and power	7/9/48	WORLD	Developed water power of the world.	Mimeographed. Free.	Revised estimate of developed and potential water power of the world by countries. (This is the tenth revision.)
Water and power	8/9/48	WYOMING MONTANA	Map of Moorhead reservoir on Powder River.	Price 10¢ sheet, 60¢ set. Map of Powder River from point 2 miles above Moorhead, Mont., to point 10 miles below Arvada, Wyo.	The dam is being built by the U. S. Bureau of Reclamation.