BIBLIOGRAPHY OF U. S. GEOLOGICAL SURVEY
PUBLICATIONS RELATING TO COAL
1882-1949

By

Louise R. Berryhill
FOREWORD

All publications of the U. S. Geological Survey relating to coal published prior to January 1, 1950, are listed in the following Bibliography and in an Index beginning on page 18. The Bibliography gives complete titles of reports, listed numerically under several series headings as follows: Annual Reports, Monographs, Professional Papers, Bulletins, Water Supply Papers, Mineral Resources, Geologic Folios, Circulars, Regulations, Press Notices, and Maps not otherwise classified. The Index lists the publications alphabetically under state headings by counties, districts, and fields. The use of the Index will permit rapid selection of reports describing specific areas.

The annual reports, monographs, professional papers, bulletins, water supply papers, chapters and volumes of Mineral Resources of the United States, and regulations, if available, are sold direct by the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

The geologic folios, circulars, and press notices, and maps of areas east of the Mississippi River should be ordered from the U. S. Geological Survey, Washington 25, D. C. Maps of areas west of the Mississippi River should be ordered from the Distribution Section, U. S. Geological Survey, Denver Federal Center, Denver, Colo. The geologic folios, circulars, and all maps are also available for over-the-counter distribution (not by mail) from the U. S. Geological Survey, Room 1210, General Services Building, Washington 25, D. C.

Prices for the various publications that are available are quoted following titles in the Bibliography. Publications marked by an asterisk (*) in the Bibliography, and for which no prices are quoted, are out of print, and can no longer be obtained either from the Superintendent of Documents or the Geological Survey. They may be consulted, however, in many large public libraries and in most College or University libraries, a selected list of which is given, beginning on page 43. Some Geological Survey publications may be purchased from dealers in second-hand scientific books.

Publication of new coal maps and reports is announced immediately by a mimeographed press notice issued by the Department of the Interior Information Service, in which the subject, content, and price are given. A mailing list is maintained for sending these press notices to individuals with a bona fide interest in the publications relating to part or all of the United States. Written requests to be placed on the mailing list should be addressed to the U. S. Geological Survey, Washington 25, D. C.

A list of all new publications issued by the Geological Survey is prepared monthly and mailed to those who request this service.
<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>Page</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bibliography</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Annual Reports</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Monographs</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Professional Papers</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bulletins</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Water-Supply Papers</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Mineral Resources</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Geologic Folios</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Circulars</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Regulations</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Mimeographed Press Notices</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Maps</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Index</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Alaska</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Arizona</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>California</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Colorado</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Connecticut</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Florida</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Georgia</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Idaho</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Illinois</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Indiana</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Iowa</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Kansas</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Kentucky</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Maine</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Maryland</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Massachusetts</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Michigan</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Minnesota</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Mississippi</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Index (Continued)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missouri</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Montana</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Nebraska</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Nevada</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>New Hampshire</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>New Jersey</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>New Mexico</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>New York</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>North Carolina</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>North Dakota</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Ohio</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Oklahoma</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Oregon</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Rhode Island</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>South Carolina</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>South Dakota</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>Tennessee</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>United States</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Utah</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Vermont</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Virginia</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Washington</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>West Virginia</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>Wisconsin</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Wyoming</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Foreign</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>Philippine Islands</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>Analyses, statistics, and technology</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Libraries</td>
<td>43</td>
<td></td>
</tr>
</tbody>
</table>
BIBLIOGRAPHY OF U. S. GEOLOGICAL SURVEY PUBLICATIONS RELATING TO COAL 1882-1949

By Louise R. Berryhill

BIBLIOGRAPHY ANNUAL REPORTS

*Fourteenth Annual Report, for 1892-93, Part II.
*[(a)] The Potomac and Roaring Creek coal fields in West Virginia, by J. D. Weeks, pp. 567-590, pls. lxxxiii-lxxiv.

*Seventeenth Annual Report, for 1895-96, Part I, Director’s report and other papers.
*[(c)] A geological reconnaissance in northwestern Oregon, by J. S. Diller, pp. 441-520, pls. iv-xvi.

*Part II, Economic geology and hydrography.
*[(d)] Geologic section along the New and Kanawha rivers in West Virginia, by M. R. Campbell and W. C. Mendenhall, pp. 473-511, pls. xxxviii-xlvi.

*[(c)] Some coal fields of Puget Sound, by Bailey Willis, pp. 393-436, pls. lii-lxviii.

*Nineteenth Annual Report, for 1897-98, Part II, Papers chiefly of a theoretical nature.

*Part III, Economic geology.
*[(c)] The Coos Bay coal field, Oregon, by J. S. Diller, pp. 309-376, pls. xlii-lxiv.
*[(e)] Geology of the McAlester-Lehigh coal field, Indian Territory, by J. A. Taff, accompanied by a report on the fossil plants, by David White, and a report on the Paleozoic invertebrate fossils, by G. H. Girty, pp. 423-600, pls. lxiv-lxxii.

*Twentieth Annual Report, for 1898-99, Part II, General geology and paleontology.
*[(f)] The stratigraphic succession of the fossil floras of the Pottsville formation in the southern anthracite coal field, Pennsylvania, by David White, pp. 749-930, pls. clxxx-cxciii.

Twenty-first Annual Report, for 1899-1900, Part II, General geology, economic geology, Alaska.
*[(e)] Geology of the eastern Choctaw coal field, Indian Territory, by J. A. Taff and G. I. Adams, pp. 257-311, pls. xxxv-xxxvi.


*Part III, General geology, ore and phosphate deposits, Philippines.

Twenty-second Annual Report, for 1900-01, Part III, Coal, oil, cement.
*[(a)] The coal fields of the United States, by C. W. Hayes, pp. 7-24, pl. i.

*[(c)] The Pennsylvania anthracite coal field, by H. H. Stoek, pp. 55-117, pls. vi-x.
*[(d)] The northern Appalachian coal field, by David White, M. R. Campbell, and R. M. Haseltine, pp. 119-226, pls. xi-xv.

*[(e)] The southern Appalachian coal field, by C. W. Hayes, pp. 227-263, pls. xiii-xv.
*[(f)] The eastern interior coal field, by G. H. Ashley, pp. 265-306, pls. xvi-xix.

*[(g)] The northern interior coal field, by A. C. Lane, pp. 307-321, pls. xx-xxi.
*[(h)] The western interior coal field, by H. F. Bain, pp. 333-396, pls. xxii-xxxv.

The southwestern coal field, by J. A. Taff, pp. 367-413, pls. xxxv-xxxvii.
*[(j)] The Rocky Mountain coal fields, by L. S. Storrs, pp. 415-471, pls. xxix-xxx.
*[(l)] The coal resources of Alaska, by A. H. Brooks, pp. 515-571, pl. xxxv.

MONOGRAPHS


*37. Fossil flora of the Lower Coal Measures of Missouri, by David White. 1899. xi, 467 pp., 71 pls.

PROFESSIONAL PAPERS

*48. Report on the operations of the coal-testing plant of the United States Geological Survey at the Louisiana Purchase Exposition, St. Louis, Mo., 1904; E. W. Parker, J. A. Holmes, M. R. Campbell, committee in charge. 1906. 1492 pp., 13 pls. (In three parts.)
*49. Geology and mineral resources of part of the Cumberland Gap coal field, Kentucky, by G. H. Ashley and L. C. Glenn, in cooperation with the State Geological Department of Kentucky, C. J. Norwood, curator. 1906. 239 pp., 40 pls.


*56. Geology and geography of a portion of southwestern Wyoming, with special reference to coal and oil, by A. C. Veatch. 1907. 178 pp., 26 pls.


*100. The coal fields of the United States, by M. R. Campbell and J. A. Bownocker. 1929.

(Published in October, 1930.)

*(a) General introduction, by M. R. Campbell, pp. 1-33, pl. 1. 1917.

*(b) The coal fields of Ohio, by J. A. Bownocker, State geologist, with a computation of the original content of the fields, by F. R. Clark, pp. 35-96, pls. ii-ix. 1918.

*101. Geology and paleontology of the Raton Mesa and other regions in Colorado and New Mexico; papers by G. H. Girty, and David White. 1903. 239 pp., 11 pls.

*107. Shorter contributions to general geology, 1913; David White, chief geologist. 1914. Issued also in separate chapters, as indicated below.

*(a) Origin of the boghead coals, by Reinhardt Thiessen, pp. 121-137, pls. xxvii-xl.

*(b) A Pennsylvanian florule from the Forkston coal in the Dutch Mt. outlier, northeastern Pennsylvania, by W. T. Lee and F. Emmons, pp. 311-324.

*(c) Some structural features of the Northern Anthracite coal basin, Pa., by N. H. Darton.

*(d) Some structural features of the Upper Carboniferous rocks of the Kansas section, by G. I. Adams, G. H. Girty, and David White. 1903. 123 pp., 4 pls.

*(e) A geographic and geologic reconnaissance of parts of Arizona, New Mexico, and Utah, by H. E. Gregory. 1917. 161 pp., 34 pls.

*108. The lignites of the Great Sioux Reservation, a report on the region between the Grand and Moreau rivers, Dak., by Bailey Willis. 1885. 16 pp., 5 pls.

*56. Fossil wood and lignite of the Potamac formation, by F. H. Knowlton. 1889. 72 pp., 7 pls.

*65. Stratigraphy of the bituminous coal field of Pennsylvania, Ohio, and West Virginia, by I. C. White. 1891. 212 pp., 11 pls.

*98. Flora of the outlying Carboniferous basins of southwestern Missouri, by David White. 1893. 139 pp., 5 pls.


*164. Reconnaissance in the Rio Grande coal fields of Texas, by T. W. Vaughan, including a report on igneous rocks from the San Carlos coal field, by E. C. E. Lord. 1900. 100 pp., 11 pls.

*211. Stratigraphy and paleontology of the Upper Carboniferous rocks of the Kansas section, by G. I. Adams, G. H. Girty, and David White. 1903. 123 pp., 4 pls.


Recent work in the bituminous coal field of Pennsylvania, by M. R. Campbell, pp. 270-275.

Coal resources of the Yukon basin, Alaska, by A. J. Collier, pp. 276-283.

Recent work in the coal field of Indiana and Illinois, by M. L. Fuller and G. H. Ashley, pp. 284-293.

*218. The coal resources of the Yukon, Alaska, by A. J. Collier. 1903. 71 pp., 6 pls.


Lignites of the middle and upper Missouri Valley, by E. F. Burchard, pp. 276-288.

Coal deposits between Silver Peak and Candelaria, Esmeralda County, Nev., by J. E. Spurr, pp. 289-292.


The Elders Ridge coal field, Pennsylvania, by R. W. Stone, pp. 311-324.
Coal mining along the southeastern margin of the Wilmore Basin, Cambria County, Pa., by Charles Butts, pp. 325-329.
The Meadow Branch coal field, West Virginia, by M. R. Campbell, pp. 330-344.
*250. The petroleum fields of the Pacific coast of Alaska, with an account of the Bering River coal deposits, by G. C. Martin. 1905. 84 pp., 7 pls.
Bering River coal field, by G. C. Martin, pp. 140-150.
Coal resources of southwestern Alaska, by R. W. Stone, pp. 151-171, pls. ii-iii.
Coal fields of the Cape Lisburne region, by A. J. Collier, pp. 172-185.
*260. Contributions to economic geology, 1904; S. F. Emmons and C. W. Hayes, geologists in charge. 1905.
Warrior coal basin in the Brookwood quadrangle, Ala., by Charles Butts, pp. 357-381.
Progress of coal work in Indian Territory, by J. A. Taff, pp. 382-401, pls. i-ii.
Pittsburgh coal in the Burgettstown quadrangle, Pa., by W. T. Griswold, pp. 402-410, pl. iii.
Coal in Clallam County, Wash., by Ralph Arnold, pp. 413-421.
Coal in the Nicholas quadrangle, W. Va., by G. H. Ashley, pp. 422-428.
The petroleum fields of the Pacific coast of Alaska, with an account of the Bering River coal deposits, by G. C. Martin. 1905. 84 pp., 7 pls.
Bering River coal field, by G. C. Martin, pp. 140-150.
Coal resources of southwestern Alaska, by R. W. Stone, pp. 151-171, pls. ii-iii.
Coal fields of the Cape Lisburne region, by A. J. Collier, pp. 172-185.
*260. Contributions to economic geology, 1904; S. F. Emmons and C. W. Hayes, geologists in charge. 1905.
Warrior coal basin in the Brookwood quadrangle, Ala., by Charles Butts, pp. 357-381.
Progress of coal work in Indian Territory, by J. A. Taff, pp. 382-401, pls. i-ii.
Pittsburgh coal in the Burgettstown quadrangle, Pa., by W. T. Griswold, pp. 402-410, pl. iii.
Coal in Clallam County, Wash., by Ralph Arnold, pp. 413-421.
Coal in the Nicholas quadrangle, W. Va., by G. H. Ashley, pp. 422-428.
*278. Geology and coal resources of the Cape Lisburne region, Alaska, by A. J. Collier. 1906. 54 pp., 9 pls.
*279. Economic geology of the Kittanning and Rural Valley quadrangles, Pa., by Charles Butts. 1906. 198 pp., 11 pls.
*283. Geology and mineral resources of Mississippi, by A. F. Crider. 1906. 99 pp., 4 pls.
Preliminary statement on the Matanuska coal field, by G. C. Martin, pp. 88-100.
*(f) Coal, lignite, and peat.
The Warrior coal basin in the Birmingham quadrangle, Ala., by Charles Butts, pp. 211-222, pl. v.
Coal in the Mount Diablo Range, Monterey County, Calif., by Ralph Arnold, pp. 223-225.
The Yampa coal field, Routt County, Colo., by N. M. Fenneman and H. S. Gale, pp. 226-239, pl. vi.
The Engle coal field, New Mexico, by W. T. Lee, p. 240.
The Durango-Gallup coal field of Colorado and New Mexico, by F. C. Schrader, pp. 241-258, pl. vii.
Coal resources of the Kenova quadrangle (Ky.-Ohio-W. Va.), by W. C. Phalen, pp. 259-268.
The Punxsutawney and Glen Campbell coal fields of Indiana and Jefferson Counties, Pa., by F. B. Peck and G. H. Ashley, pp. 276-279.
Coal in Sanpete County, Utah, by G. B. Richardson, pp. 280-284, pl. viii.
Book Cliffs coal field, Utah, west of Green River, by J. A. Taff, pp. 289-302, pl. ix.
Mineral resources of the Bighorn Mountain region (Wyo.), by N. H. Darton, pp. 303-310.
Coal and oil in southern Uinta County, Wyo., by A. C. Veatch, pp. 331-358, pls. x-xii.
*297. The Yampa coal field, Routt County, Colo., by N. M. Fenneman and H. S. Gale, with a chapter on the character and use of the Yampa coals, by M. R. Campbell. 1906. 96 pp., 9 pls.

*300. Economic geology of the Amity quadrangle, eastern Washington County, Pa., by F. G. Clapp. 1907. 145 pp., 8 pls.


*(f) Reconnaissance in the Matanuska and Talkeetna Basins, Alaska, with notes on the placers of the adjacent regions, by Sidney Paige and Adolph Knopf, pp. 104-125.

*316. Contributions to economic geology, 1806, Part II, Coal, lignite, and peat; M. R. Campbell, geologist in charge. 1807.

*(a) Coal fields of Pennsylvania, Kentucky, Virginia, and Alabama. - Coal of the Clarion quadrangle, Clarion County, Pa., by E. F. Lines, pp. 13-19, pl. i.

Coal resources of Johnstown, Pa., and vicinity, by W. C. Phalen, pp. 20-41, pl. ii.

The Elkhorn coal field, Kentucky, by R. W. Stone, pp. 42-54, pl. iii.


Coal mining at Dante, Va., by R. W. Stone, pp. 68-75.

The northern part of the Cahaba coal field, Alabama, by Charles Butts, pp. 76-115, pls. v-vi.


Coal of Carbon County, Mont., by N. H. Darton, pp. 174-185, pl. xi.

The coal fields of Dawson, Rosebud, and Custer Counties, Mont., by A. G. Leonard, pp. 194-211, pl. xii.


Coal fields of east-central Carbon County, Wyo., by A. C. Veatch, pp. 244-260, pl. xiv.


The Book Cliffs coal field, between Grand River, Colo., and Sunnyside, Utah, by G. B. Richardson, pp. 302-320, pl. xviii.


The Iron County coal field, Utah, by W. T. Lee, pp. 359-374, pl. xxi.


The Una del Gato coal field, Sandoval County, N. Mex., by M. R. Campbell, pp. 427-430.

Coal in the vicinity of Fort Stanton Reservation, Lincoln County, N. Mex., by M. R. Campbell, pp. 431-434.

Coal of Stone Canyon, Monterey County, Calif., by M. R. Campbell, pp. 435-438.


Condition of the coal-briquetting industry in the United States, by E. W. Parker, pp. 460-485.

The importance of uniform and systematic coal-mine sampling, by J. S. Burrows, pp. 486-517.


*326. The Arkansas coal field, by A. J. Collier, with reports on the paleontology, by David White and G. H. Girty. 1907. 158 pp., 6 pls.


333. Coal-mine accidents, their causes and prevention (a preliminary statistical report), by Clarence Hall and W. O. Snelling, with introduction by J. A. Holmes. 1907. 21 pp. 5¢.

334. The burning of coal without smoke in boiler plants (a preliminary report), by D. T. Randall. 1908. 26 pp. (See also Bulletin 373.)

335. Geology and mineral resources of the Controller Bay region, Alaska, by G. C. Martin. 1908. 141 pp., 10 pls.


337. The purchase of coal under Government and commercial specifications on the basis of its heating value, with analyses of coal delivered under Government contract, by D. T. Randall. 1908. 27 pp.

338. Contributions to economic geology, 1907, Part I, Metals and non-metals except fuels; C. W. Hayes and Waldemar Lindgren, geologists in charge. 1908.

339. Contributions to economic geology, 1907, Part II, Coal and lignite; M. R. Campbell, geologist in charge. 1909.

340. Contributions to economic geology, 1907, Part III, Coal and lignite; M. R. Campbell, geologist in charge. 1909.

341. Contributions to economic geology, 1907, Part IV, Coal and lignite; M. R. Campbell, geologist in charge. 1909.

342. Contributions to economic geology, 1907, Part V, Coal and lignite; M. R. Campbell, geologist in charge. 1909.

343. Binders for coal briquets; investigations made at fuel-testing plant, St. Louis, Mo., by J. E. Mills. 1908. 56 pp. 10¢.

363. Comparative tests of run-of-mine and briquetted coal on locomotives, including torpedo boat tests and some foreign specifications for briquetted fuel, by W. F. M. Goss. 1908. 57 pp., 4 pls.


368. Washing and cokeing tests of coal at the fuel-testing plant, Denver, Colo., July 1, 1907, to June 30, 1908, by A. W. Belden, G. R. Delamater, and J. W. Groves. 1909. 54 pp., 2 pls. 10¢.


370. Reconnaissance of the Book Cliffs coal field, between Grand River, Colo., and Sunnyside, Utah, by G. B. Richardson. 1909. 54 pp., 10 pls.


373. Results of purchasing coal under government specifications, by J. S. Burrows, with a paper on burning the small sizes of anthracite for heat and power purposes, by D. T. Randall. 1909. 44 pp. 10¢.


The Washburn lignite field, North Dakota, by C. D. Smith, pp. 19-29, pl. i.

The Fort Berthold Indian Reservation lignite field, North Dakota, by C. D. Smith, pp. 30-39, pl. ii.

The Fort Peck Indian Reservation lignite field, Montana, by C. D. Smith, pp. 40-59, pl. iii.

The central part of the Bull Mountain coal field, Montana, by R. W. Richards, pp. 60-81, pls. iv-v.

The Milk River coal field, Montana, by L. J. Pepperberg, pp. 82-107, pl. vi.


The coal field in the southeastern part of the Bighorn Basin, Wyo., by E. G. Woodruff, pp. 170-185, pl. xii.

The eastern part of the Little Snake River coal field, Wyoming, by M. W. Ball and Eugene Stebingr, pp. 186-213, pl. xiii.

The southern part of the Rock Springs coal field, Sweetwater County, Wyo., by A. R. Schultz, pp. 214-261, pls. xiv-xv.


*c) Coal fields in Colorado and New Mexico. - The South Park coal field, Colorado, by C. W. Washburne, pp. 307-316, pl. xvi.


The Canon City coal field, Colorado, by C. W. Washburne, pp. 341-378, pl. xviii.

The Trinidad coal field, Colorado, by G. B. Richardson, pp. 379-446, pls. xix-xx.


The Carthage coal field, New Mexico, by J. H. Gardner, pp. 452-460, pl. xxi.

The coal field between San Mateo and Cuba, N. Mex., by J. H. Gardner, pp. 461-473, pl. xxii.

382. The effect of oxygen in coal, by David White. 1909. 74 pp., 3 pls. 25¢.


384. Briquetting tests at the United States fuel-testing plant, Norfolk, Va., 1907-8, by C. L. Wright. 1909. 41 pp., 9 pls.


*541. Contributions to economic geology (short papers and preliminary reports), 1912, Part II, Mineral fuels; M. R. Campbell, geologist in charge. 1914. Issued also in separate chapters, as indicated below.  
(f) Rhode Island anthracite, by G. H. Ashley, pp. 155-162, pl. viii.  
Coking coal in Powell Mountain, Scott County, Va., by M. R. Campbell, pp. 163-164.  
The coal resources and general geology of the Pound quadrangle of Virginia and Kentucky, by Charles Butts, pp. 165-221, pls. ix-xi.  
The coal resources of a part of northeastern Missouri, by F. C. Greene, pp. 223-242, pl. xii.  
30c.  
*(h) Lignite in the vicinity of Plentywood and Scobey, Sheridan County, Mont., by C. M. Bauer, pp. 293-315, pls. xv-xvii.  
Geology and coal resources of the area southwest of Custer, Yellowstone, and Big Horn Counties, Mont., by G. S. Rogers, pp. 316-328, pl. xviii.  
Coal discovered in a reconnaissance survey between Musselshell and Judith, Mont., by C. F. Bowen, pp. 329-397, pl. xix.  
The Cleveland coal field, Blaine County, Mont., by C. F. Bowen, pp. 339-355, pl. xx.  
The Big Sandy coal field, Chouteau County, Mont., by C. F. Bowen, pp. 356-378, pl. xxi.  
The Eden Ridge coal field, Coos County, Oreg., by C. E. Lesher, pp. 399-418, pl. xxiv-xxv.  
*(j) Geology and coal resources of the Sierra Blanca coal field, Lincoln and Otero Counties, N. Mex., by C. H. Wegemann, pp. 419-452, pls. xxvi-xxvii.  
*540. Contributions to economic geology (short papers and preliminary reports), 1911, Part II, Mineral fuels; M. R. Campbell, geologist in charge. 1913. Issued also in separate chapters, as indicated below.  
(e) The Williston lignite field, Williams County, N. Dak., by F. A. Herald, pp. 91-157, pls. ix-x.  
10c.  
*(f) The Little Sheep Mountain coal field, Dawson, Custer, and Rosebud Counties, Mont., by G. S. Rogers, pp. 159-287, pls. xi-xiii.  
*(g) Coal in the Tertiary lake beds of southwestern Montana, by J. T. Pardee, pp. 229-244, pl. xiv.  
*(h) Coal at Horseshoe Bend and Jerusalem Valley, Boise County, Idaho, by C. F. Bowen, pp. 245-261, pl. xv.  
Lignite in the Goose Creek district, Cassia County, Idaho, by C. F. Bowen, pp. 252-282, pl. xvi.  
*(m) Miscellaneous analyses of coal samples from various fields of the United States, pp. 331-355.  
*(h) Mineral resources of the Bonnifield region, by S. R. Capps, pp. 218-235, pl. x.  
*(j) Geology and coal resources of the Sierra Blanca coal field, Lincoln and Otero Counties, N. Mex., by C. H. Wegemann, pp. 419-452, pls. xxvi-xxvii.
Contributions to economic geology (short papers and preliminary reports), The Anvik-Andreafski region, Alaska (including Marshall district), by G. L. Harrington. 1918.

The Kantishna region, Alaska, by C. E. Lesher. 1919.

Rhode Island coal, by G. H. Ashley. 1915. 62 pp., 5 pls.

Geology and coal resources of North Park, Colo., by A. L. Beekly. 1914. 88 pp., 12 pls.

Reconnaissance of the geology and oil prospects of northwestern Oregon, by C. W. Washburne. 1914. 111 pp., 1 pl.

Mineral resources of Alaska, report on progress of investigations in 1913, by A. H. Brooks and others. 1914.

Geology and coal resources of North Park, Colo., by A. L. Beekly. 1915. 121 pp., 12 pls.

Rhode Island coal, by G. H. Ashley. 1915. 62 pp., 5 pls.


Mineral deposits of Kodiak and the neighboring islands, by G. C. Martin. 1913. 243 pp., 38 pls.


Contributions to economic geology (short papers and preliminary reports), 1913, Part II, Mineral fuels; M. R. Campbell and David White, geologists in charge. 1915.


Contributions to economic geology (short papers and preliminary reports), 1916, Part II, Mineral fuels; M. R. Campbell and David White, geologists in charge. 1917.

Analyses of coal samples from various parts of the United States, by M. R. Campbell and F. R. Clark. pp. 251-375.

Mineral resources of Alaska, report on progress of investigations in 1914, by A. H. Brooks and others. 1915.

Mineral resources of the Chisana-White River district, by S. R. Capps, pp. 189-228, pl. ix.


Contributions to economic geology (short papers and preliminary reports), 1916, Part II, Mineral fuels; David White, G. H. Ashley, and M. R. Campbell, geologists in charge. 1917.

Issued also in separate chapters, as indicated below.


Contributions to economic geology (short papers and preliminary reports), 1916, Part II, Mineral fuels; David White, G. H. Ashley, and M. R. Campbell, geologists in charge. 1917.

Issued also in separate chapters, as indicated below.


Coal resources of the area between Bon Air and Clifty, Tenn., by Charles Butts, pp. 307-310. 56.


Cannel coal in the United States, by G. H. Ashley. 1918. 127 pp., 8 pls.

Contributions to economic geology (short papers and preliminary reports), 1917, Part II, Mineral fuels; David White, G. H. Ashley, and M. R. Campbell, geologists in charge. 1918.

Coal near Thompson, Grand County, Utah, by F. R. Clark, pp. 453-477, pl. xxviii.

Coal near Wales, Sanpete County, Utah, by F. R. Clark, pp. 478-489, pl. xxix.

Analyses of coal samples from various fields of the United States, by M. R. Campbell, pp. 491-529.
Issued also in separate chapters, as indicated below.

*(g) The Nesson anticline, Williams County, N. Dak., by A. J. Collier, pp. 211-217, pl. xxxvi.

(k) Coal south of Mancos, Montezuma County, Colo., by A. J. Collier, pp. 293-310, pls. xxxiv-xxxxix. 10¢.

*(1) Geology of the Lost Creek coal field, Morgan County, Utah, by F. R. Clark, pp. 311-322, pl. xi.

*(f) The Abram Creek-Stony River coal field, northeastern West Virginia, by G. H. Ashley, pp. 85-103, pls. xii-xiii.

*(g) Mining in northwestern Alaska, by S. H. Cathcart, pp. 185-198.

*713. Geography, geology, and mineral resources of the Fort Hall Indian Reservation, Idaho, by G. R. Mansfield, with a chapter on water resources, by W. B. Heroy. 1920. 152 pp., 13 pls.


*715. Contributions to economic geology (short papers and preliminary reports), 1920, Part II, Mineral fuels; David White and M. R. Campbell, geologists in charge. 1921. Issued also in separate chapters, as indicated below.

*(a) Geology of Alamosa Creek valley, Socorro County, N. Mex., with special reference to the occurrence of oil and gas, by D. E. Winchester, pp. 1-15, pls. i-v.
*(g) Coal in the middle and eastern parts of San Juan County, N. Mex., by C. M. Bauer and J. B. Reeside, Jr., pp. 155-237, pls. xvi-xxxiv.

(h) Character of coal in the Thomas bed near Harrison, W. Va., by M. R. Campbell, pp. 239-248. 10¢.

720. Economic geology of the Summerfield and Woodsfield quadrangles, Ohio, with descriptions of coal and other mineral resources, except oil and gas, by D. D. Condit. 1923. 156 pp., 12 pls. 30¢.

*726. Contributions to economic geology (short papers and preliminary reports), 1921, Part II, Mineral fuels; David White and M. R. Campbell, geologists in charge. 1922. Issued also in separate chapters, as indicated below.

*(a) The New Salem lignite field, Morton County, N. Dak., by E. T. Hancock, pp. 1-39, pls. i-v.
*(d) Lignite in the western part of the Fort Berthold Indian Reservation south of Missouri River, N. Dak., by C. M. Bauer and F. A. Herald, pp. 109-172, pls. xiii-xxix. 20¢.


*729. Oil shale of the Rocky Mountain region, by D. E. Winchester. 1923. 204 pp., 18 pls.

*748. The Twentymile Park district of the Yampa coal field, Routt County, Colo., by M. R. Campbell. 1923. iv, 82 pp., 15 pls.

*749. Geology of the Tullock Creek coal field, Rosebud and Big Horn Counties, Mont., by G. S. Rogers and Wallace Lee. 1923. vi, 181 pp., 16 pls.

*(f) The Ekalaka lignite field, southeastern Montana, by C. M. Bauer, pp. 231-267, pls. xxx-xxxxiv.

*752. Coal resources of the Raton coal field, Colfax County, N. Mex., by W. T. Lee. 1924. vi, 254 pp., 22 pls.

*(c) Geology and mineral resources of the region traversed by the Alaska Railroad, by S. R. Capps, pp. 73-150, pls. i-vii.

*757. Geology and coal resources of the Axial and Monument Butte quadrangles, Moffat County, Colo., by E. T. Hancock. 1925. vi, 134 pp., 19 pls.

*763. Geology and ore deposits of the Aravalpa and Stanley mining districts, Graham County, Ariz., by C. P. Ross. 1925. vi, 120 pp., 13 pls.


*772. A reconnaissance of the Point Barrow region, Alaska, by Sidney Palge, W. T. Foran, and James Gilluly. 1925. v, 33 pp., 9 pls.

*775. Geology and lignite resources of the Marmarth field, southwestern North Dakota, by C. J. Hares. 1928. vi, 110 pp., 14 pls. 35¢.


*796. Contributions to economic geology (short papers and preliminary reports), 1927, Part II, Mineral fuels; W. T. Thom, Jr., geologist in charge. 1928.


The Minturn district and the northwestern part of the Gillette field, by W. T. Thom, Jr., pp. 50-64, pls. 11-13.

(c) Geology and coal resources of the Salina Canyon district, Sevier County, Utah, by E. M. Spieker and A. A. Baker, pp. 125-170, pls. 19-22.

*797. Mineral resources of Alaska, report on progress of investigations in 1928, by P. S. Smith and others.

(b) The Skwentna region, by S. R. Capps, pp. 67-98, pl. 1.

(d) Surveys in northwestern Alaska in 1928, by P. S. Smith, pp. 125-142, pl. 3.

(f) Geology and mineral resources of the Aniakchak district, by R. S. Knappen, pp. 161-227, pl. 6.


806. Contributions to economic geology (short papers and preliminary reports), 1928, Part II, Mineral fuels; H. D. Miser, geologist in charge. 1929. 75¢.

Issued also in separate chapters, as indicated below.


(b) The northward extension of the Sheridan coal field, Big Horn and Rosebud Counties, Mont., by A. A. Baker, pp. 15-67, pls. 6-29. 45¢.

(d) Geology of the Rock Creek oil field and adjacent areas, Carbon and Albany Counties, Wyo., by C. E. Dobbin, H. W. Hoots, C. H. Dane, and E. T. Hancock, pp. 131-158, pls. 36-43.

810. Mineral resources of Alaska, report on progress of investigations in 1927, by P. S. Smith and others.

1930. 50¢.

Issued also in separate chapters, as indicated below.

(c) The Mt. Spurr region, by S. R. Capps, pp. 141-172, pls. 3-4. 10¢.


(a) The Forsyth coal field, Rosebud, Treasure, and Big Horn Counties, Mont., by C. E. Dobbin, pp. 1-55, pls. 1-10.

(c) Geology and coal resources of the Meeker quadrangle, Moffat and Rio Blanco Counties, Colo., by E. T. Hancock and J. B. Eby, pp. 191-242, pl. 19-30.

*815. Geology and mineral resources of northwestern Alaska, by P. S. Smith and J. B. Mertie, Jr. 1930. viii, 351 pp., 34 pls.


(a) Geology and mineral resources of parts of Carbon, Big Horn, Yellowstone, and Stillwater Counties, Mont., by R. S. Knappen and G. F. Moulton, pp. 1-70, pls. 1-5.

*829. Geology and coal, oil, and gas resources of the New Kensington quadrangle, Pa., by G. B. Richardson. 1932. viii, 102 pp., 9 pls. 40¢.


Issued also in separate chapters, as indicated below.

(b) The Ashland coal field, Rosebud, Powder River, and Custer Counties, Mont., by N. W. Bass, pp. 19-105, pls. 3-37. 50¢.


(d) The eastern portion of Mount McKinley National Park, by S. R. Capps, pp. 219-300, pl. 4.

The Kantishna district, by F. H. Moffit, pp. 301-338, pl. 5.

Mining development in the Tlatallika and Tottallika Basins, by F. H. Moffit, pp. 339-345, pl. 6.


*843. A brief review of the geology of the San Juan region of southwestern Colorado, by Whitman Cross and E. S. Larsen. 1935. vi, 138 pp., 16 pls. $1.00.

*844. Mineral resources of Alaska, report on progress of investigations in 1931, by P. S. Smith and others. Issued only in separate chapters, as indicated below.

847. Contributions to economic geology (short papers and preliminary reports), 1934-36; G. F. Loughlin, geologist in charge.
Issued only in separate chapters, as indicated below.
(b) The Rosebud coal field, Rosebud and Custer Counties, Mont., by W. G. Pierce. 1936. pp. i-v, 43-120, pls. 5-21. $1.25.
(c) The Richey-Lambert coal field, Richland and Dawson Counties, Mont., by F. S. Parker. 1936. pp. i-iv, 121-174, pls. 22-27. 35¢.
(e) Geology and mineral resources of the western part of the Arkansas coal field, by T. A. Hendricks and Bryan Parks. 1937. pp. i-iv, 189-224, pl. 35.

849. Investigations in Alaska Railroad belt, 1931, by P. S. Smith and others. Issued only in separate chapters, as indicated below.
(b) The Book Cliffs coal field in Garfield and Mesa Counties, Colo., by C. E. Erdmann. 1934 (1935). 160 pp., 21 pls. 75¢.
(c) The Book Cliffs coal field in Emery and Grand Counties, Utah, by D. J. Fisher. 1936. iv, 104 pp., 15 pls. 75¢.
(d) Geology of Big Horn County and Crow Indian Reservation, Mont., with special reference to the water, coal, oil, and gas resources, by W. T. Thom, Jr., G. M. Hall, C. H. Wegemann, and G. F. Moulton. 1935. vii, 200 pp., 15 pls. 75¢.
(e) The coal resources of the southern part of the Oklahoma coal field, by P. S. Smith and others. Issued only in separate chapters, as indicated below.

860. Geology and fuel resources of the southern part of the San Juan Basin, N. Mex. Issued only in separate chapters, as indicated below.
(a) Part 1. The coal field from Gallup eastward toward Mount Taylor, with a measured section of pre-Dakota (?) rocks near Navajo Church, by J. D. Sears. 1934 (1935). pp. i-iv, 1-52, pls. 1-17.
(e) The southern Alaska Range, by S. R. Capps. 1935. iv, 101 pp., 8 pls. 75¢.
(f) Geology and mineral resources of the Butler and Zellienople quadrangles, Pa., by G. B. Richardson. 1936. v, 93 pp., 8 pls. 45¢.

878. Coal deposits of Pike County, Ky., by C. B. Hunt, G. H. Briggs, Jr., A. C. Munyan, and G. R. Wesley. 1937. v, 95 pp., 50 pls. $2.25.

880. Mineral resources of Alaska, report on progress of investigations in 1935, by P. S. Smith and others. Issued only in separate chapters, as indicated below.
(b) The Eska Creek coal deposits, Matanuska Valley, by Ralph Tuck. 1937. pp. i-ii, 185-214, pls. 11-14. 35¢.
(c) The coal resources of Mccone County, Mont., by A. J. Collier and M. M. Knechtel. 1939. vii, 80 pp., 16 pls. 75¢.
Issued only in separate chapters, as indicated below.
(b) Coal and geology of the Minot region, N. Dak., by D. A. Andrews. 1939. pp. i-v, 43-84, pls. 11-15. 50¢.
(c) The Mizpah coal field, Custer County, Mont., by F. S. Parker and D. A. Andrews. 1939 (1940). pp. i-v, 85-133, pls. 16-40. $1.50.


964. Geologic investigations in the American Republics, 1949. Issued only in separate chapters, as indicated below. (b) Mineral resources of Columbia (other than petroleum), by Q. D. Singewald. 1949. pp. i-vii, 55-204, pls. 5-13. $1.00.

WATER-SUPPLY PAPERS

*70. Geology and water resources of the Patrick and Goshen Hole quadrangles in eastern Wyoming and western Nebraska, by G. I. Adams. 1902. 50 pp., 11 pls.


*118. Geology and water resources of a portion of east-central Washington, by F. C. Calkins. 1906. 96 pp., 4 pls.

*221. Geology and water resources of the Great Falls region, Mont., by C. A. Fisher. 1909. 89 pp., 7 pls.


*518. Ground water in Musselshell and Golden Valley Counties, Mont., by A. J. Ellis and O. E. Meinzer. 1924. vi, 92 pp., 5 pls.

*588. Geology and ground-water resources of North Dakota, by H. E. Simpson, with a discussion of the chemical character of the water, by H. B. Riffenburg. 1929. v, 312 pp., 3 pls.

*599. Ground water in Yellowstone and Treasure Counties, Mont., by G. M. Hall and C. S. Howard. 1929. vi, 118 pp., 7 pls.

600. Geology and ground-water resources of central and southern Rosebud County, Mont., by B. C. Renick, with chemical analyses of the waters, by H. B. Riffenburg. 1929. x, 140 pp., 12 pls. 35¢.


678. Geology and ground-water resources of Atascosa and Frio Counties, Tex., by J. T. Lonsdale. 1935. v, 90 pp., 8 pls. 35¢.

*678. Geology and ground-water resources of Uvalde and Medina Counties, Tex., by A. N. Sayre. 1936. v, 146 pp., 11 pls.


MINERAL RESOURCES

(a) Anthracite, by C. A. Ashburner, pp. 7-32.

*Mineral Resources of the United States, calendar years 1883 and 1884. 1885.
(a) Coal; Anthracite coal mining, by H. M. Chance, pp. 104-131.
The manufacture of coke, by J. D. Weeks, pp. 131-143.

*Mineral Resources of the United States, calendar year 1892. 1893.
The coal deposits of California, by H. W. Turner, pp. 308-310.

(l) Origin, distribution, and commercial value of peat deposits, by N. S. Shaler, pp. 305-314.

*Mineral Resources of the United States, calendar year 1904. 1905.
(g) Peat, by H. H. Hindshaw (with bibliography), pp. 1229-1234.

*Mineral Resources of the United States, calendar year 1905. 1906.
(b) Coal, by E. W. Parker: Coal in the Philippine Islands, compiled from report by W. H. Smith, pp. 477-479.

(a) Map showing coal fields of the United States, by M. R. Campbell, in pocket.

(a) Classified list of papers dealing with coal, coke, lignite, and peat contained in publications of the U. S. Geological Survey, compiled by W. T. Lee and J. M. Nickles, pp. 197-211.

(a) Coal, by E. W. Parker: Alaska, extract from paper by A. H. Brooks, pp. 98-100.
(b) Coal briquetting: United States Geological Survey briquetting plant, Pittsburgh, Pa., by C. L. Wright, pp. 210-211.

(a) Coal, by E. W. Parker: [Coal fields of the United States by States, with maps], pp. 98-225, pls. i-xiv.
(b) [Classified list of Survey papers on coal, coke, lignite, and peat], pp. 226-242.

(g) Peat, by C. A. Davis, pp. 459-468.

(h) Peat, by C. A. Davis: Uses, pp. 376-384. 5¢.

(c) Peat, by C. C. Osbon: Distribution and quantity (with map showing distribution), methods of preparation (agricultural and war uses), bibliography, pp. 262-283. 5¢.

(b) Prices of coal and coke, 1913-18, by C. E. Lesher: [A permanent record of the great revolution in prices that accompanied the World War], pp. 16-115. 5¢.


*Mineral Resources of the United States, calendar year 1922. Part II, Nonmetals. 1923. $1.00.
Stikes and lockouts, pp. 512-519. 20¢.
GEOLOGIC FOLIOS

Note.--Folios *148, *181, *185, 188, 196, 203, 213, 216, 220, 221, 224, 226, and 227 may be obtained from the Geological Survey at the price indicated in parentheses.

2. Ringgold, Ga.-Tenn., by C. W. Hayes. 1894.
5. Sewanee, Tenn., by C. W. Hayes. 1894.
10. Stevenson, Ala.-Ga.-Tenn., by C. W. Hayes. 1895.
11. Pikesville, Tenn., by C. W. Hayes. 1895.
12. McMinnville, Tenn., by C. W. Hayes. 1895.
27. Standingstone, Tenn., by M. R. Campbell. 1899.
29. Fort Benton, Mont., by W. H. Weed. 1899.
30. Little Belt Mountains, Mont., by W. H. Weed. 1899.
32. Bristol, Va.-Tenn., by M. R. Campbell. 1899.
33. La Plata, Colo., by Whitman Cross, A. C. Spencer, and C. W. Purinton. 1899.
36. Danville, Ill.-Ind., by M. R. Campbell and Frank Leverett. 1900.
37. Walsenburg, Colo., by R. C. Hills. 1900.
42. Coalgate, Ind. T. (Okla.), by J. A. Taff. 1901.
43. Maynardville, Tenn., by Arthur Keith. 1901.
44. Raleigh, W. Va., by M. R. Campbell. 1902.
45. Atoka, Ind. T. (Okla.), by J. A. Taff. 1902.
46. Masonontown-Unifontown, Pa., by M. R. Campbell. 1902.
47. Ditney, Ind., by M. L. Fuller and G. H. Ashley. 1902.
50. Brownsville-Connellsville, Pa., by M. R. Campbell. 1903.
51. Indiana, Pa., by G. B. Richardson. 1904.
58. Latrobe, Pa., by M. R. Campbell. 1904.
59. Kittanning, Pa., by Charles Butts and Frank Leverett. 1904.
60. Waynesburg, Pa., by R. W. Stone. 1905.
64. Aladdin, Wyo.-S. Dak.-Mont., by N. H. Darton and C. C. O'Harra. 1905.

*133. Ebensburg, Pa., by Charles Butts. 1905.

*134. Beaver, Pa., by L. H. Woolsey. 1905.


*144. Amity, Pa., by F. G. Clapp. 1907.

*146. Rogersville, Pa., by F. G. Clapp. 1907.


*153. Ouray, Colo., by Whifman Cross, Ernest Howe, and J. D. Irvinq. 1907.


*156. Elk Point, S. Dak.-Nebr.-Iowa, by J. E. Todd. 1908.


*163. Tallula-Springfield, Ill., by E. W. Shaw and T. E. Savage. 1912. (25¢.)


CIRCULARS


REGULATIONS

Operating regulations to govern coal-mining methods and the safety and welfare of miners on leased lands on the public domain under the act of February 25, 1920 (41 Stat. 437), and amendments thereto. 2d edition. 1938. ii, 46 pp. 10¢. (1st edition, 1923, issued by Bureau of Mines.)

MENOGRAPHED PRESS NOTICES

A few press notices released between 1922 and 1945 contained geologic data on coal-bearing areas, but for the most part this information was included in later publications of the U. S. Geological Survey. The press notices listed below, however, contain information on coal that has not been published in subsequent reports of the Geological Survey.


1926. *The extent of the Montevallio coal field of the southern part of the Cahaba coal field, Alabama.


1945. *Geology and coal resources of the western part of the Lower Matanuska Valley coal field, Alaska.

*Coal deposits in the valley of the Healy River, Alaska.

Geology and coal resources of the eastern part of the Lower Matanuska Valley coal field, Alaska.
United States Map

Coal fields of the United States. (2 sheets.) Scale, 1:2,500,000. 1942. 56 by 85 inches. $1.00.

Missouri Basin Studies


Preliminary Maps

*Coal mines and base of Mesaverde coal measures in part of Carbon and Emery Counties, Utah, compiled by B. W. Dyer and J. J. Bourquin. Scale, 1 inch=1 mile. 1929. (See also Buls. 793, 819, and 852.)

*Geologic structure of southeastern Kansas coal fields, by W. G. Pierce and others. Scale, 1 inch=2 miles. 1935. (See Kansas Geological Survey Bull. 24.)

Lehigh district, Coal, Atoka, and Pittsburg Counties, Okla., by M. M. Knechtel and others. Scale, 1 inch=1 mile. 1935. 25¢. (See also Bull. 874 b.)

Geologic structure of the Quinton-Scipio district, Pittsburg, Haskell, and Latimer Counties, Okla., by C. H. Dane, H. E. Rothrock, and J. S. Williams. Scale, 1 inch=1 mile. 1935. 25¢. (See also Bull. 874c.)

Coal districts in Oklahoma: Price: $1.00 per copy or $4.00 for set of five maps.

Lehigh district, Coal and Atoka Counties, by T. A. Hendricks and others. Scale, 1 inch=½ mile. 1935. (See also Bull. 874b.)

McAlester district, Pittsburg and Latimer Counties, by T. A. Hendricks and others. Scale, 1 inch=½ mile. 1935. (See also Bull. 874a.)

Wilburton district, Latimer County, by T. A. Hendricks and others. Scale, 1 inch=½ mile. 1935. (See also Bull. 874d.)

Howe district, Le Flore, Haskell, and Latimer Counties, by T. A. Hendricks and others. Scale, 1 inch=½ mile. 1935. (See also Bull. 874d.)

Stigler-Poteau district, Pittsburg, Haskell, and Le Flore Counties, by W. T. Thom and Pat Rose. Scale, 1 inch=1 mile. 1935. *

The Mount Pleasant coal field; Sanpete County, Utah, by D. C. Duncan. Scale, 1 inch=3,000 feet. 1944. No charge.

Willow Creek coal area, Lincoln County, Wyo., by D. A. Andrews. Scale, 1 inch=4,000 feet. 1944. 50¢.

Northern Le Flore County, Okla., by M. M. Knechtel. Scale, 1 inch=4,000 feet. 1944. 50¢.


Eastern part of the lower Matanuska Valley coal field, Alaska, by Ralph Tuck and others. Scale, 1 inch=500 feet. 1945. 50¢.

Coal deposits on Sand and Lookout Mountains, Dade and Walker Counties, Ga., by V. H. Johnson. Scale, 1 inch=4,000 feet. 1946. 55¢.

Paonia coal field, Delta and Gunnison Counties, Colo., by V. H. Johnson. Scale, 1 inch=4,000 feet. 1948. 50¢.

Coal City and Fairview Basins, Coosa coal field, St. Clair County, Ala., by H. E. Rothrock. (2 sheets.) Scales, 1:20,000 and 1:31,680. 1948. $1.00.

Deep River coal field, Chatham, Lee, and Moore Counties, N. C., by J. A. Reinemund. (2 sheets.) Scale, 1 inch=2,000 feet. 1949. 60¢.

Oil and Gas Investigations Preliminary Maps

81. Geology of the southern part of Archuleta County, Colo., by G. H. Wood, V. C. Kelley, and A. J. MacAlpin. Scale, 1 inch=1 mile. 1948. $1.00.

109. Geology and coal resources of the Durango area, La Plata and Montezuma Counties, Colo., by A. D. Zapp. (2 sheets.) Scale, 2 inches =1 mile. 1949. $1.00.

Oil and Gas Investigations Preliminary Charts

27. The Tertiary stratigraphy of the Jackson Hole area, northwestern Wyoming, by J. D. Love. 1947. 60¢.
INDEX

The following abbreviations are used in the index below: A, Annual Report; M, Monograph; P, Professional Paper; B, Bulletin; W, Water-Supply Paper; MR, Mineral Resources; GF, Geologic Folio; C, Circular; PN, Press Notice; Map, unclassified maps of all kinds; Chart, Preliminary chart of the Oil and Gas Investigations Series. Do not attempt to order publications from this index. Consult the Bibliography to ascertain if the report is available.

ALABAMA

General ................................................................................................................. A 22 III e

Analyses .................................................................................................................. B 471 j, 531 m, 541 k (See also reports on individual areas.)

Bessemer quadrangle (Jefferson and Shelby Counties) ........................................ GF 221
Bibb County .......................................................................................................... B 431 b; GF 226
Birmingham quadrangle (Blount, Cullman, Jefferson, St. Clair, and Walker Counties) ... B 285 f, 400; GF 175
Blount County .................................................................................................... B 285 f; GF 36, 175
Brookwood district (Tuscaloosa County). ................................................................. B 260

Cannel coal  .............................................................................................................. B 659
Cahaba field (Jefferson, Shelby, and St. Clair Counties) ........................................ B 316 a, 431 b, 659; GF 226; PN 1925
Columbiana quadrangle (Shelby County) ............................................................... GF 226
Coosa field (St. Clair County) ............................................................................... Map
Cullman County .................................................................................................... B 285 f; GF 175

De Kalb County ..................................................................................................... GF 19, 35

Etowah County ...................................................................................................... GF 35

Gadsden quadrangle (Blount, De Kalb, Etowah, and Marshall Counties) ................ GF 35

Jackson County ..................................................................................................... GF 19
Jefferson County .................................................................................................... B 260, 285 f, 316 a; GF 175, 221

Marshall County .................................................................................................... GF 35
Montevallo quadrangle (Bibb and Shelby Counties) .............................................. GF 226

Shelby County ....................................................................................................... B 316 a, 431 b; GF 221, 226; PN 1926
St. Clair County .................................................................................................... B 316 a; GF 175; Map
Stevenson quadrangle (De Kalb and Jackson Counties) ........................................ GF 19

Tuscaloosa County .................................................................................................. B 260

Vandiver quadrangle (Shelby County) .................................................................... GF 221

Walker County ...................................................................................................... B 285 f; GF 175
Warrior Basin (Jefferson and Tuscaloosa Counties) ................................................. B 280

ALASKA

General .................................................................................................................... A 17 I e, 22 III 1; B 314, 442 a,j

Alaska Peninsula ................................................................................................... B 467
Alaska Railroad region ........................................................................................... B 844 b, 907
Aniakchak district ................................................................................................ B 797 l
Anthracite Ridge district ........................................................................................ B 849 a
Anthracite Ridge coal district ............................................................................... B 861
Anvik River ............................................................................................................ B 662 f, 683

Bering River .......................................................................................................... B 225, 250, 259, 284, 335
Bonnifield region .................................................................................................. B 480 h, 501

Cape Lisburne ......................................................................................................... B 259, 278
Chignik district ...................................................................................................... B 755 d
Chisana district ..................................................................................................... B 622 f
Cold Bay district ................................................................................................... B 755 d
Costello Creek Basin ............................................................................................. PN 1944
Eska Creek coal deposits .............................................. B 880 d
Healy River Valley ...................................................... PN 1945
Herendeen Bay .......................................................... B 284, 467; PN 1944
Kachemak Bay region .................................................... B 277
Kantishna region ......................................................... B 687
Kenai Peninsula .......................................................... B 587
Kodiak Island ............................................................ B 542 e
Leases ........................................................................... B 642 a
Markets ........................................................................... B 284
Matanuska field ............................................................. B 284, 289, 314 f, 327, 490 f, 500, 592 b, 712 e, 714 d, 755 c, 791; PN 1945; Map
McKinley Park region ...................................................... B 836 d
Mineral industry of Alaska, 1935 ......................................... B 880 a
Moose Creek area ........................................................... B 857 e
Mount Spurr region ......................................................... B 810 c
Nelchina Valley .............................................................. B 592 h
Nenana field .................................................................. B 684, 755 c
Northern Alaska ............................................................. B 815
Northwestern part ........................................................... B 712 g, 797 d
Peat, general .................................................................. B 379 a
Point Barrow region ....................................................... B 772
Southern Alaska Range .................................................... B 882
Skwentna district ............................................................ B 797 b
Southwestern part .......................................................... B 259, 467
White River district ......................................................... B 417, 622 f
Yukon basin .................................................................. B 213, 218, 642 a

Arizona

Apache County ............................................................... P 93; B 431 b
Black Mesa field (Apache, Coconino, and Navajo Counties) ....... P 93; B 431 b
Coconino County ............................................................ P 93; B 431 b
Deer Creek field (Pinal County) .......................................... B 225, 763
Navajo County .................................................................. P 93; B 431 b
Pinal County ................................................................... B 225, 763
Pinedale field (Navajo County) .......................................... B 431 b

Arkansas

General ........................................................................... A 22 III i; B 316 b, 326
Camden field (Ouachita County) ........................................ A 21 II f; B 659
Cannel coal .................................................................... B 659
Crawford County ............................................................ B 316 b, 326, 847 e; GF 154
Franklin County .............................................................. B 316 b, 326, 847 e; GF 154
Johnson County ............................................................. B 316 b, 326
Logan County .................................................................. B 316 b, 326, 847 e
Ouachita County ............................................................ A 21 II f; B 659
Pope County ........................................................................................................ B 316 b, 326
Scott County ......................................................................................................... B 316 b, 326
Sebastian County ................................................................................................ B 316 b, 326, 847 e
Washington County ............................................................................................ GF 154
Winslow quadrangle (Crawford, Franklin, and Washington Counties) .......... GF 154

California

General .................................................................................................................... A 22 111 k; MR 1892
Amador County .................................................................................................... W 619, 780
Analyses ................................................................................................................ B 471 j (See also reports on individual areas.)
Marysville quadrangle (Sutter County) ................................................................. GF 17
Monterey County .................................................................................................. B 285 f, 316 f, 581 d
Mount Diablo Range (Monterey County) ............................................................ B 285 f, 316 f, 581 d
Peat, general ........................................................................................................ B 726
Priest Valley (Monterey County) ........................................................................... B 581 d
San Benito County ................................................................................................ B 431 b, 581 d
Stone Canyon (Monterey County) ....................................................................... B 285 f, 316 f, 581 d
Sutter County ....................................................................................................... GF 17
Waltham Valley (Monterey County) ................................................................... B 581 d

Colorado

General ..................................................................................................................... A 22 111 k
Adams County ...................................................................................................... B 381 c
Analyses ................................................................................................................ B 285 f, 471 j, 531 m, 541 k, 621 p (See also reports on individual areas.)
Anthracite quadrangle (Gunnison County) ......................................................... GF 9
Arapahoe County .................................................................................................. M 27; B 381 c
Archuleta County ................................................................................................ B 285 f, 341 c, 843; Map
Axial district (Moffat County) ............................................................................. B 757
Book Cliffs field (Garfield and Mesa Counties) .................................................. B 316 e, 371, 851
Canon City field (Fremont County) ................................................................... B 381 c
Colorado Springs field (El Paso County) ............................................................... B 381 c; GF 203
Crested Butte quadrangle (Gunnison County) .................................................... GF 9
Danforth Hills field (Moffat and Rio Blanco Counties) ....................................... B 316 e, 415, 812 c
Delores County .................................................................................................... B 843
Delta County ...................................................................................................... B 341 c, 471 h, 510; Map
Denver Basin (Adams, Arapahoe, Jefferson, Larimer, and Weld Counties) .... M 27; B 381 c
Durango field (Archuleta, La Plata, and Montezuma Counties) ....................... B 285 f, 316 e, 341 c; Map
Elmo quadrangle (Las Animas County) ............................................................. GF 58
El Paso County ..................................................................................................... B 381 c; GF 203
Fremont County .................................................................................................. B 381 c
Garfield County .................................................................................................. B 316 e, 371, 415, 851
Grand Hogback field (Garfield and Rio Blanco Counties) ................................ B 316 e, 415
Grand Mesa (Delta, Gunnison, and Mesa Counties) ........................................ B 341 c, 510
Gunnison County ............................................................................................... B 341 c, 510; GF 9; Map
Gunnison Valley (Delta and Mesa Counties) ..................................................... B 471 h
Huerfano County ............................................................................................... GF 68, 71
Jackson County .................................................................................................... B 596
Jefferson County .................................................................................................. M 27; B 381 c
<table>
<thead>
<tr>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>La Plata County</td>
<td>B 285 f, 316 e, 341 c, 891 k, 843; GF 60; Map</td>
</tr>
<tr>
<td>La Plata quadrangle (La Plata and Montezuma Counties)</td>
<td>GF 80</td>
</tr>
<tr>
<td>Larimer County</td>
<td>B 381 c</td>
</tr>
<tr>
<td>Las Animas County</td>
<td>P 101; B 381 c; GF 58, 71, 214</td>
</tr>
<tr>
<td>Lower White River field (Moffat and Rio Blanco Counties)</td>
<td>B 341 c, 415</td>
</tr>
<tr>
<td>Mancos field (La Plata and Montezuma Counties)</td>
<td>B 316 e, 691 k</td>
</tr>
<tr>
<td>Meeker quadrangle (Moffat and Rio Blanco Counties)</td>
<td>B 812 c</td>
</tr>
<tr>
<td>Mesa County</td>
<td>B 316 e, 341 c, 371, 471 h, 510, 851</td>
</tr>
<tr>
<td>Moffat County</td>
<td>B 285 f, 297, 316 e, 341 c, 415, 767, 812 c</td>
</tr>
<tr>
<td>Montezuma County</td>
<td>B 316 e, 691 k; GF 60; Map</td>
</tr>
<tr>
<td>Montrose County</td>
<td>B 843</td>
</tr>
<tr>
<td>Monument Butte district (Moffat County)</td>
<td>B 757</td>
</tr>
<tr>
<td>North Park field (Jackson County)</td>
<td>B 596</td>
</tr>
<tr>
<td>Ouray County</td>
<td>B 843; GF 153</td>
</tr>
<tr>
<td>Pagosa Springs field (Archuleta County)</td>
<td>B 843</td>
</tr>
<tr>
<td>Paonia field (Delta and Gunnison Counties)</td>
<td>Map</td>
</tr>
<tr>
<td>Park County</td>
<td>B 381 c</td>
</tr>
<tr>
<td>Raton Mesa region (Las Animas County)</td>
<td>P 101; B 381 c; GF 58, 68, 214</td>
</tr>
<tr>
<td>Rio Blanco County</td>
<td>B 316 e, 341 c, 415, 812 c</td>
</tr>
<tr>
<td>Routt County</td>
<td>B 285 f, 297, 316 e, 748</td>
</tr>
<tr>
<td>San Juan Region (Archuleta, La Plata, and Montrose Counties)</td>
<td>B 843</td>
</tr>
<tr>
<td>San Miguel County</td>
<td>B 843</td>
</tr>
<tr>
<td>South Park field (Park County)</td>
<td>B 381 c</td>
</tr>
<tr>
<td>Spanish Peaks quadrangle (Huerfano and Las Animas Counties)</td>
<td>GF 71</td>
</tr>
<tr>
<td>Trinidad field (Las Animas County)</td>
<td>B 381 c; GF 58, 71</td>
</tr>
<tr>
<td>Twentymile Park district (Routt County)</td>
<td>B 748</td>
</tr>
<tr>
<td>Walsenburg quadrangle (Huerfano County)</td>
<td>GF 88</td>
</tr>
<tr>
<td>Weld County</td>
<td>M 27; B 381 c</td>
</tr>
<tr>
<td>West Elk Mountain field (Delta and Gunnison Counties)</td>
<td>B 510</td>
</tr>
<tr>
<td>Yampa field (Moffat and Routt Counties)</td>
<td>B 285 f, 297, 341 c, 748, 757</td>
</tr>
</tbody>
</table>

**CONNECTICUT**

- Peat, general

**FLORIDA**

- Peat, general

**GEORGIA**

- General
- Chattooga County
- Dade County
- Peat, general
- Ringgold quadrangle (Chattooga, Dade, and Walker Counties)
- Sand and Lookout Mountains (Dade and Walker Counties)
- Stevenson quadrangle (Chattooga, Dade, and Walker Counties)
- Walker County
IDAHO

Ada County .................................................. GF 45, 103
Analyses ...................................................... B 531 m (See also reports on individual areas.)

Bear Lake County ........................................... P 152
Boise County .................................................... B 531 h; GF 45
Boise quadrangle (Ada, Boise, and Gem Counties)GF 45
Bonneville County ............................................. B 680; 716 f

Canyon County ............................................... GF 103
Caribou County ............................................... P 152
Cassia County .................................................. B 531 h
Clark County .................................................... B 716 f
Clearwater County ............................................. B 621 i

Fort Hall Indian Reservation (Power County) ............................................. B 713

Gem County ..................................................... GF 45, 103
Goose Creek field (Cassia County) ............................................. GF 103
Horseshoe Bend and Jerusalem Valley fields (Boise County) .................... B 531 h
Horseshoe Creek district (Teton County) .............................................. B 541 i, 680, 716 f

Idaho County .................................................. B 621 i

Lewis County .................................................... B 621 i

Nampa quadrangle (Ada, Canyon, Gem, Owyhee, and Payette Counties) .......... GF 103

Orofino field (Clearwater, Lewis, and Idaho Counties) ......................... B 621 i
Owyhee County .................................................. GF 103, 104

Payette County .................................................. GF 103
Pine Creek and Grays River area (Teton County) .................................... B 680, 716 f
Power County .................................................... B 713

Silver City quadrangle (Owyhee County) ............................................. GF 104
St. Anthony field (Teton County) .................................................. B 541 i

Teton Basin field (Teton County) ................................................. B 541 i, 680, 716 f
Teton County ..................................................... B 541 i, 680, 716 f

Willow Creek - Grays Lake area (Bonneville County) ................................ B 680, 716 f

ILLINOIS

General ........................................................ A 22 III f

Analyses ..................................................... B 531 m, 541 k (See also reports on individual areas.)

Belleville quadrangle (Madison and St. Clair Counties) ......................... GF 195
Bond County .................................................... GF 185, 220
Breese quadrangle (Bond, Clinton, Madison, and St. Clair Counties) .......... GF 195

Cannel coal ..................................................... B 659
Carlyle-Centralia quadrangles (Clinton and Marion Counties) ................. GF 216
Cass County .................................................... GF 188
Clinton County .................................................... GF 195, 213, 216
Colchester quadrangle (McDonough and Schuyler Counties) ....................... GF 208
Danville quadrangle (Vermilion County) ........................................... GF 67
<table>
<thead>
<tr>
<th>County</th>
<th>Quadrangle/Map Details</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edwards County</td>
<td></td>
<td>B 213; GF 105</td>
</tr>
<tr>
<td>Franklin County</td>
<td></td>
<td>GF 185</td>
</tr>
<tr>
<td>Gallatin County</td>
<td></td>
<td>B 316 b</td>
</tr>
<tr>
<td>Gallatin district (Gallatin and White Counties)</td>
<td></td>
<td>B 316 b</td>
</tr>
<tr>
<td>Gillespie quadrangle (Macoupin County)</td>
<td></td>
<td>GF 220</td>
</tr>
<tr>
<td>Hamilton County</td>
<td></td>
<td>B 316 b</td>
</tr>
<tr>
<td>Herrin quadrangle (Franklin, Jackson, Perry, and Williamson Counties)</td>
<td></td>
<td>GF 185</td>
</tr>
<tr>
<td>Jackson County</td>
<td></td>
<td>GF 185</td>
</tr>
<tr>
<td>Logan County</td>
<td></td>
<td>GF 188</td>
</tr>
<tr>
<td>Macomb quadrangle (McDonough and Schuyler Counties)</td>
<td></td>
<td>GF 208</td>
</tr>
<tr>
<td>Macoupin County</td>
<td></td>
<td>GF 195</td>
</tr>
<tr>
<td>Marion County</td>
<td></td>
<td>GF 216</td>
</tr>
<tr>
<td>McDonough County</td>
<td></td>
<td>GF 208</td>
</tr>
<tr>
<td>McLean County</td>
<td></td>
<td>B 859</td>
</tr>
<tr>
<td>Menard County</td>
<td></td>
<td>GF 188</td>
</tr>
<tr>
<td>Monroe County</td>
<td></td>
<td>GF 213</td>
</tr>
<tr>
<td>Montgomery County</td>
<td></td>
<td>GF 220</td>
</tr>
<tr>
<td>Morgan County</td>
<td></td>
<td>GF 188</td>
</tr>
<tr>
<td>Mount Olive quadrangle (Bond, Macoupin, and Montgomery Counties)</td>
<td></td>
<td>GF 200</td>
</tr>
<tr>
<td>Murphysboro quadrangle (Jackson and Perry Counties)</td>
<td></td>
<td>GF 185</td>
</tr>
<tr>
<td>New Athens quadrangle (Monroe and St. Clair Counties)</td>
<td></td>
<td>GF 213</td>
</tr>
<tr>
<td>Okawville quadrangle (Clinton and Washington Counties)</td>
<td></td>
<td>GF 213</td>
</tr>
<tr>
<td>Patoka district (Edwards, Wabash, and White Counties)</td>
<td></td>
<td>B 213; GF 105</td>
</tr>
<tr>
<td>Patoka quadrangle (Edwards and Wabash Counties)</td>
<td></td>
<td>GF 105</td>
</tr>
<tr>
<td>Peat, general</td>
<td></td>
<td>B 728</td>
</tr>
<tr>
<td>Peoria County</td>
<td></td>
<td>B 508</td>
</tr>
<tr>
<td>Peoria district (Peoria and Tazewell Counties)</td>
<td></td>
<td>B 508</td>
</tr>
<tr>
<td>Perry County</td>
<td></td>
<td>GF 185</td>
</tr>
<tr>
<td>Saline County</td>
<td></td>
<td>B 316 b</td>
</tr>
<tr>
<td>Saline district (Hamilton and Saline Counties)</td>
<td></td>
<td>B 316 b</td>
</tr>
<tr>
<td>Sangamon County</td>
<td></td>
<td>GF 188</td>
</tr>
<tr>
<td>Schuyler County</td>
<td></td>
<td>GF 208</td>
</tr>
<tr>
<td>Springfield quadrangle (Sangamon, Logan, and Menard Counties)</td>
<td></td>
<td>GF 188</td>
</tr>
<tr>
<td>St. Clair County</td>
<td></td>
<td>GF 195, 213</td>
</tr>
<tr>
<td>Tallula quadrangle (Menard, Morgan, and Sangamon Counties)</td>
<td></td>
<td>GF 188</td>
</tr>
<tr>
<td>Tazewell County</td>
<td></td>
<td>B 506</td>
</tr>
<tr>
<td>Vermillion County</td>
<td></td>
<td>GF 87</td>
</tr>
<tr>
<td>Wabash County</td>
<td></td>
<td>B 213; GF 105</td>
</tr>
<tr>
<td>Washington County</td>
<td></td>
<td>GF 213</td>
</tr>
<tr>
<td>White County</td>
<td></td>
<td>B 316 b; GF 105</td>
</tr>
<tr>
<td>Williamson County</td>
<td></td>
<td>GF 185</td>
</tr>
</tbody>
</table>

**INDIANA**

<table>
<thead>
<tr>
<th>County</th>
<th>Quadrangle/Map Details</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
<td>A 22 III f; B 381 a</td>
</tr>
<tr>
<td>Cannel coal</td>
<td></td>
<td>B 659</td>
</tr>
<tr>
<td>Daviess County</td>
<td></td>
<td>B 659</td>
</tr>
<tr>
<td>Ditney quadrangle (Dubois, Gibson, Pike, Spencer, Vanderburgh, and Warrick Counties)</td>
<td></td>
<td>B 213; GF 84</td>
</tr>
<tr>
<td>Dubois County</td>
<td></td>
<td>B 213; GF 84</td>
</tr>
<tr>
<td>Gibson County</td>
<td></td>
<td>B 213; GF 84, 105</td>
</tr>
</tbody>
</table>
Parke County ................................................................. B 659
Patoka quadrangle (Gibson, Posey, and Vanderburgh Counties) ........................................ B 213; GF 105
Peat, general ........................................................................ B 728
Perry County ........................................................................ B 659
Pike County .......................................................................... B 213; GF 84
Posey County ........................................................................ B 213; GF 105
Spencer County ...................................................................... B 213; GF 84
Vanderburgh County .............................................................. B 213; GF 84, 105
Warrick County .................................................................... B 213; GF 84

IOWA
General .............................................................................. A 22 III h
Cannel coal ........................................................................... B 659
Guthrie County ..................................................................... B 659
Peat, general ......................................................................... B 728
Webster County .................................................................... B 659

KANSAS
General .............................................................................. A 22 III h
Allen County .......................................................................... B 238
Analyses ............................................................................... B 471 j (See also reports on individual areas.)
Bourbon County .................................................................... B 238
Cherokee County ................................................................... GF 148; Map
Crawford County ................................................................... B 238; Map
Independence quadrangle (Montgomery and Wilson Counties) ........................................ B 296; GF 159
Iola quadrangle (Allen, Bourbon, Crawford, and Neosho Counties) ........................................ B 238
Joplin quadrangle (Cherokee County) .............................................................................. GF 148
Labette County ...................................................................... Map
Leavenworth quadrangle (Leavenworth County) ................................................................ GF 206
Montgomery County .............................................................. B 296; GF 159
Neosho County ...................................................................... B 238
Southeastern part .................................................................... B 211; Map
Wilson County ...................................................................... B 296; GF 159

KENTUCKY
General .............................................................................. A 22 III d, f
Analyses ............................................................................... B 471 j, 531 m, 541 h (See also reports on individual areas.)
Bell County ........................................................................... P 49; B 225, 659
Big Stone Gap field (Harlem and Letcher Counties) .......................................................... B 111
Boyd County .......................................................................... B 285 f, 348; GF 184
Breathitt County ..................................................................... B 659

24
Carter County ........................................ B 285 f, 349, 659; GF 184
Clay County ........................................ B 659
Cumberland Gap region (Bell and Harlan Counties) .......... P 40; B 225
Elkhorn field (Letcher and Pike Counties) .................. B 316 a, 348
Elliott County ........................................ B 285 f, 349, 659; GF 184
Estill County ......................................... GF 46
Estillville quadrangle (Harlan and Letcher Counties) ....... GF 12
Floyd County ......................................... B 659
Greenup County ....................................... B 285 f, 349, 659; GF 184
Hancock County ....................................... B 659
Haran County ......................................... P 40; B 111, 225, 659; GF 12
Jackson County ...................................... B 659; GF 46, 47
Johnson County ...................................... B 659
Kenova quadrangle (Boyd, Carter, Elliott, Greenup, and Lawrence Counties) ........ B 285 f, 349; GF 184
Knox County ........................................ B 659
Laurel County ........................................ B 659; GF 47
Lawrence County ..................................... B 285 f, 349, 659; GF 184
Leslie County ........................................ B 659
Letcher County ...................................... B 111, 316 a, 348, 541 f, 659; GF 12
London quadrangle (Jackson, Laurel, Pulaski, and Rockcastle Counties) ....... GF 47
Madison County ..................................... GF 46
Magoffin County ..................................... B 659
Morgan County ....................................... B 659
Perry County ......................................... B 659
Pike County ......................................... B 316 a, 348, 541 f, 659, 876
Pound quadrangle (Letcher and Pike Counties) ............. B 541 f
Pulaski County ....................................... GF 47
Richmond quadrangle (Estill, Jackson, Madison, and Rockcastle Counties) .... GF 46
Rockcastle County ................................... GF 46, 47
Russell Fork field (Pike and Letcher Counties) ............. B 348
Whitley County ...................................... B 659
Wolfe County ........................................ B 659

MAINE

Peat, general ......................................... B 376, 728

MARYLAND

Accident quadrangle (Garrett County) ......................... GF 180
Allegany County ..................................... GF 28, 180, 179
Garrett County ....................................... GF 28, 180
Grantsville quadrangle (Allegany and Garrett Counties) .. GF 180
Lignite .................................................. B 56
Pawpaw quadrangle (Allegany and Washington Counties) ... GF 179
Piedmont quadrangle (Allegany and Garrett Counties) .... GF 28
Washington County ................................... GF 179
MISSISSIPPI
Lignite, general ............................................. B 283

MISSOURI
General .................................................. A 22 III h
Adair County ............................................... B 541 f
Analyses .................................................. B 471 j, 531 m (See also reports on individual areas.)
Calloway County .......................................... B 659
Cannel coal ................................................ B 659
Clay County ................................................. GF 206
Cole County ................................................ B 659
Cooper County ............................................. B 659
Crawford County .......................................... B 659
Fossil flora ................................................ P 98; M 37
Jasper County ............................................. B 659; GF 148
Joplin quadrangle (Jasper County) ...................... GF 148
Leavenworth quadrangle (Platt County) ................. GF 206
Lincoln County ............................................ B 659
Miller County .............................................. B 659
Moniteau County .......................................... B 659
Morgan County ............................................. B 659
Northeastern part (Adair, Putnam, Schuyler, and Sullivan Counties) ................................ B 541 f
Platt County .............................................. GF 206
Putnam County ............................................ B 541 f
Saline County ............................................. B 659
Schuyler County .......................................... B 541 f
Smithville quadrangle (Clay and Platt Counties) .... GF 206
Sullivan County .......................................... B 541 f

MONTANA
General .................................................. A 22 III j
Analyses .................................................. B 471 j, 531 m, 541 k, 621 p (See also reports on individual areas.)
<table>
<thead>
<tr>
<th>Location</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashland field (Custer, Powder River, and Rosebud Counties)</td>
<td>B 831 b</td>
</tr>
<tr>
<td>Baker field (Custer and Fallon Counties)</td>
<td>B 471 d</td>
</tr>
<tr>
<td>Bear Creek field (Carbon County)</td>
<td>B 225, 285 f, 318 c, 341 a</td>
</tr>
<tr>
<td>Beaverhead County</td>
<td>B 661 f, 729</td>
</tr>
<tr>
<td>Big Horn County</td>
<td>B 541 h, 749, 806 b, 812 a, 822 a, 856</td>
</tr>
<tr>
<td>Big Sandy field (Chouteau County)</td>
<td>B 541 h</td>
</tr>
<tr>
<td>Bitteroot Forest Reserve (Missoula and Ravalli Counties)</td>
<td>B 531 g</td>
</tr>
<tr>
<td>Blackfeet field (Glacier, Pondera and Toole Counties)</td>
<td>B 621 k</td>
</tr>
<tr>
<td>Blaine County</td>
<td>B 381 a, 471 e, 541 h</td>
</tr>
<tr>
<td>Bridger field (Carbon County)</td>
<td>B 316 c, 341 b</td>
</tr>
<tr>
<td>Broadwater County</td>
<td>GF 24</td>
</tr>
<tr>
<td>Bull Mountain field (Musselshell and Yellowstone Counties)</td>
<td>B 341 a, 381 a, 431 b, 647</td>
</tr>
<tr>
<td>Carbon County</td>
<td>B 225, 285 f, 316 c, 341 a, b, 641 g, 822 a</td>
</tr>
<tr>
<td>Carter County</td>
<td>B 751 f</td>
</tr>
<tr>
<td>Cascade County</td>
<td>B 316 c, 356, 641 h; GF 56, 56; W 221</td>
</tr>
<tr>
<td>Chouteau County</td>
<td>B 541 h, 847 f; GF 55</td>
</tr>
<tr>
<td>Cleveland field (Blaine County)</td>
<td>B 541 h</td>
</tr>
<tr>
<td>Crazy Mountain field (Meagher, Park, and Wheatland Counties)</td>
<td>B 341 a</td>
</tr>
<tr>
<td>Crow Indian Reservation (Big Horn County)</td>
<td>B 856</td>
</tr>
<tr>
<td>Cubertson field (Roosevelt and Sheridan Counties)</td>
<td>B 471 d</td>
</tr>
<tr>
<td>Custer County</td>
<td>B 285 f, 316 c, 341 a, 471 d, 531 f, 831 b, 847 b, 906 c</td>
</tr>
<tr>
<td>Custer district (Big Horn and Yellowstone Counties)</td>
<td>B 541 h</td>
</tr>
<tr>
<td>Custer National Forest (Powder River and Rosebud Counties)</td>
<td>B 381 a</td>
</tr>
<tr>
<td>Daniels County</td>
<td>B 381 a, 541 h</td>
</tr>
<tr>
<td>Dawson County</td>
<td>B 285 f, 316 c, 471 d, 847 c</td>
</tr>
<tr>
<td>Deer Lodge County</td>
<td>B 531 g</td>
</tr>
<tr>
<td>Ekalaka field (Carter and Fallon Counties)</td>
<td>B 751 f</td>
</tr>
<tr>
<td>Electric field (Park County)</td>
<td>B 471 e; GF 1</td>
</tr>
<tr>
<td>Fallon County</td>
<td>B 225 f, 471 d, 751 f</td>
</tr>
<tr>
<td>Fergus County</td>
<td>B 341 a, 380, 541 h; GF 55</td>
</tr>
<tr>
<td>Flint Creek field (Granite County)</td>
<td>B 531 g</td>
</tr>
<tr>
<td>Forsyth field (Big Horn, Rosebud, and Treasure Counties)</td>
<td>B 812 a</td>
</tr>
<tr>
<td>Fort Benton quadrangle (Cascade, Chouteau, Fergus, and Judith Basin Counties)</td>
<td>GF 55</td>
</tr>
<tr>
<td>Fort Peck Indian Reservation (Daniels, McCone, Richland, Roosevelt, Sheridan, and Valley Counties)</td>
<td>B 381 a, 541 h</td>
</tr>
<tr>
<td>Gallatin County</td>
<td>B 471 e; GF 1, 24, 56</td>
</tr>
<tr>
<td>Garfield County</td>
<td>B 318 c</td>
</tr>
<tr>
<td>Glacier County</td>
<td>B 621 k</td>
</tr>
<tr>
<td>Glendive field (Dawson, Prairie, and Wibaux Counties)</td>
<td>B 471 d</td>
</tr>
<tr>
<td>Golden Valley County</td>
<td>W 518</td>
</tr>
<tr>
<td>Granite County</td>
<td>B 531 g</td>
</tr>
<tr>
<td>Great Falls field (Cascade, Judith Basin, and Meagher Counties)</td>
<td>B 316 c, 356, 641 h; W 221</td>
</tr>
<tr>
<td>Hill County</td>
<td>B 381 a, 471 e, 847 f</td>
</tr>
<tr>
<td>Hound Creek district (Cascade and Meagher Counties)</td>
<td>B 641 h</td>
</tr>
<tr>
<td>Jefferson County</td>
<td>GF 24</td>
</tr>
<tr>
<td>Judith Basin County</td>
<td>B 316 c, 341 a, 380, 390; GF 55, 56; W 221</td>
</tr>
<tr>
<td>Judith district (Fergus, Musselshell, and Petroleum Counties)</td>
<td>B 541 h</td>
</tr>
<tr>
<td>Lewistown field (Fergus, Judith Basin, and Wheatland Counties)</td>
<td>B 341 a, 390</td>
</tr>
<tr>
<td>Liberty County</td>
<td>B 847 f</td>
</tr>
<tr>
<td>Little Belt Mountains quadrangle (Cascade, Gallatin, Judith Basin, Meagher, Park, Sweet Grass, and Wheatland Counties)</td>
<td>GF 56</td>
</tr>
<tr>
<td>Little Sheep Mountain field (Custer, Prairie, and Rosebud Counties)</td>
<td>B 531 f</td>
</tr>
<tr>
<td>Livingston quadrangle (Gallatin, Park, Stillwater, and Sweet Grass Counties)</td>
<td>B 471 e; GF 1</td>
</tr>
</tbody>
</table>
Milk River field .................................................. B 381 a, 471 e
Mispah field (Custer County) .................................... B 531 g
Mizpah field (Custer County) ..................................... B 806 c
Mizpah field (Custer County) ..................................... B 941 a, 381 a, 431 b, 541 h, 647, W 518
Musselshell County .................................................. B 381 a, 905

Petroleum County ................................................... B 341 a, 641 h; GF 56
Pine Ridge field (Big Horn and Yellowstone Counties) ....... B 541 h
Pleasanton and Scobey districts (Daniels and Sheridan Counties) B 541 h
Pondera County .................................................. B 821 k
Powder River County .............................................. B 381 a, 831 b
Powell County .................................................... B 531 g
Prairie County ..................................................... B 285 f, 316 c, 471 d, 531 f
Ravalli County ..................................................... B 531 g
Red Lodge field (Carbon County) ................................. B 225, 316 c, 341 a, 641 g
Resources .................................................................. B 531 g
Richey-Lambert field (Dawson and Richland Counties) ....... B 847 c
Richland County .................................................... B 381 a, 471 d, 847 c
Roosevelt County ................................................... B 381 a, 471 d
Rosebud County ..................................................... B 381 c, 381 a, 531 f, 806 b, 812 a, 831 b, 847 b; W 600
Rosebud field (Custer and Rosebud Counties) .................. B 847 b; W 600

Scobey field (Daniels, Sheridan, and Valley Counties) ......... B 541 h, 751 e
Sentinel Butte field (Wibaux County) ............................. B 341 a
Sheridan County ..................................................... B 381 a, 471 d, 541 h, 751 e
Sheridan field, northward extension (Big Horn and Rosebud Counties) B 806 b
Sidney field (Dawson, Richland, and Wibaux Counties) ....... B 471 d
Silver Bow County .................................................. B 531 g
Silver Creek field (Carbon County) ............................... B 381 c
Stillwater County .................................................. B 841 c, 822 a; GF 1
Stillwater field (Carbon and Stillwater Counties) .............. B 641 g, 822 a
Sweet Grass County .................................................. B 471 e; GF 1, 56

Terry field (Custer, Fallon, Prairie, and Wibaux Counties) .... B 471 d
Tertiary lake beds (Deer Lodge, Granite, Missoula, Powell, Ravalli, and Silver Bow Counties) B 531 g
Tertiary lake beds (Beaverhead County) .......................... B 381 a, 471 h, 729
Three Forks quadrangle (Broadwater, Gallatin, Jefferson, Madison, and Park Counties) .................. GF 24
Toole County .......................................................... B 621 k
Trail Creek field (Gallatin, Park, and Sweet Grass Counties) ... B 471 e; GF 1
Treasure County ..................................................... B 749, 812 a; W 599
Tullock Creek field (Big Horn and Treasure Counties) ........... B 749

Upper Stillwater Basin (Carbon and Stillwater Counties) .......... B 641 g
Valier field (Glacier, Pondera, and Toole Counties) .......... B 621 k
Valley County ...................................................... B 381 a, 751 e
Wheatland County .................................................. B 341 a, 390; GF 56
Wibaux County ..................................................... B 285 f, 316 c, 341 a, 471 d
Yellowstone County .................................................. B 341 a, 381 a, 431 b, 541 h, 647, 822 a; W 599

NEBRASKA

General .......................................................... A 22 III h
Dakota County ..................................................... B 225; GF 156
Dixon County ..................................................... B 225; GF 156
Elk Point quadrangle (Dakota and Dixon Counties) ............... GF 156

28
NEVADA

Coaldale field (Esmeralda County) ........................................... B 531 k
Esmeralda County ................................................................. B 225, 531 k

NEW HAMPSHIRE

Peat, general ................................................................. B 728

NEW JERSEY

Peat, general ................................................................. B 728

NEW MEXICO

General ................................................................. A 22 III j
Alamosa Creek Valley (Socorro County) .................................... B 716 a
Analyses ................................................................. B 531 m, 541 k, 621 p (See also reports on individual areas.)
Bernalillo County ............................................................... B 471 h, 860 b
Brilliant quadrangle (Colfax County) ...................................... GF 214
Carrillo field (Santa Fe County) ............................................. B 381 c
Carthage field (Socorro County) ............................................. B 361 c
Chacra Mesa field (McKinley, Sandoval, and San Juan Counties) .......................... B 880 c
Colfax County ................................................................. P 101; B 752; GF 214
Cuba field (McKinley and Sandoval Counties) ............................ B 381 c
Datil Mountain field (Socorro County) ..................................... B 716 a
Durango field (McKinley, Rio Arriba, and San Juan Counties) ............... B 285 f, 316 f, 341 c
Engle field (Sierra County) .................................................. B 285 f
Fort Stanton, or Sierra Blanca field (Lincoln County) ................. B 316 f
Gallina field (McKinley and Sandoval Counties) .......................... B 341 c
Gallup field (McKinley and San Juan Counties) ............................ P 93; B 285 f, 316 f, 341 c, 787
Hagan, or Una del Gato field (Sandoval County) .......................... B 316 f
Koehler quadrangle (Colfax County) ....................................... GF 214
La Ventana field (McKinley, Sandoval, and San Juan Counties) ........... B 860 c
Lincoln County ................................................................. B 225, 316 f, 541 j
McKinley County ............................................................... P 93; B 285 f, 316 f, 341 c, 381 c, 787, 860 a, b, c
Monero field (Rio Arriba County) ........................................... B 341 c
Mount Taylor field (Bernalillo, McKinley, Sandoval, and Valencia Counties) .......................... B 860 b
Omara field (Santa Fe County) ................................................ B 381 c
Otero County ................................................................. B 641 j
Pecos River field (San Miguel County) .................................... B 381 c
Raton field (Colfax County) .................................................. P 101; B 752; GF 214
Raton quadrangle (Colfax County) ......................................... GF 214
Raton Spring field (McKinley and Sandoval Counties) ..................... B 341 c
Rio Arriba County .............................................................. B 341 c
Sandoval County ................................................................. B 316 f, 341 c, 381 c, 880 b, c
San Juan County ............................................................... B 285 f, 316 f, 716 g, 880 c
San Juan River region (Bernalillo, McKinley, Rio Arriba, Sandoval, San Juan, and Valencia Counties) ........................................ P 93; B 285 f, 316 f, 341 c, 381 c, 716 g, 787, 880 a, b, c
San Mateo field (McKinley, Sandoval, and Valencia Counties) .......... B 341 c, 381 c
San Miguel County ............................................................ B 381 c, 531 j
Santa Fe County ............................................................... B 381 c, 531 j
Sierra Blanca field (Lincoln and Otero Counties) .......................... B 225, 316 f, 541 j
Sierra County ................................................................. B 285 f
Socorro County .................................................................... B 381 c, 716 a
Tijeras field (Bernalillo County) ................................................ B 471 h
Una del Gato field (Sandoval County) ........................................ B 318 f
Valencia County ..................................................................... B 341 c, 767, 880 b
White Mountain, or Sierra Blanca field (Lincoln County) .............. B 225
Zuni Indian Reservation (McKinley and Valencia Counties) .......... B 767

NEW YORK

Peat, general ........................................................................ B 728

NORTH CAROLINA

General .................................................................................. A 22 III b
Chatham County ...................................................................... Map
Dan River (Rockingham and Stokes Counties) .............................. B 471 b
Deep River field (Chatham, Lee, and Moore Counties) .................. Map
Lee County ............................................................................. Map
Moore County ......................................................................... Map
Peat, general ........................................................................ B 711 c, 728
Rockingham County ............................................................ B 471 b
Stokes County ....................................................................... B 471 b

NORTH DAKOTA

General .................................................................................. A 22 III j; B 225, 285 f; W 117, 598
Adams County ......................................................................... B 541 g
Analyzes ................................................................................ B 471 j, 531 m, 621 p (See also reports on individual areas.)
Billings County ...................................................................... B 341 a, 775; W 598
Bismarck quadrangle (Burleigh, Emmons, Morton, and Oliver Counties) .......... GF 181
Bowman County ..................................................................... B 775
Burleigh County ..................................................................... B 381 a; GF 181; W 598
Cannonball River field (Adams, Hettinger, and Grant Counties)..... B 541 g
Dunn County ........................................................................... B 726 d
Emmons County ....................................................................... GF 181
Fort Berthold Indian Reservation (Dunn, McKenzie, McLean, Mercer, and Mountrail Counties) .............................................. B 381 a, 471 c, 726 d
Golden Valley County ........................................................... B 341 a, 775; W 598
Grant County ......................................................................... B 541 g
Hettinger County ....................................................... B 541 g, W 598

Marmarth field (Billings, Bowman, Golden Valley, and Slope Counties) ....................... B 775
McHenry County ....................................................... B 906 b
McKenzie County ..................................................... B 691 g, 720 d
McLean County ......................................................... B 381 a, 471 c, 906 b; W 508
Mercer County ......................................................... B 726 d, 906 b
Minot region (McHenry, McLean, Mercer, Sheridan, and Ward Counties) ...................... B 906 b
Morton County ........................................................... B 726 a; GF 181; W 508
Mountrail County ....................................................... B 381 a, 471 c, 691 g

Nesson anticline (McKenzie, Mountrail, and Williams Counties) .................................. B 691 g
New Salem field (Morton County) ........................................ B 720 a

Oliver County ............................................................ B 381 a; GF 181

Sentinel Butte field (Billings and Golden Valley Counties) ....................................... B 341 a
Sheridan County ........................................................... B 906 b
Sioux County ............................................................... B 575
Slope County .............................................................. B 775
Standing Rock Indian Reservation (Sioux County) ...................................................... B 575

Ward County ............................................................... B 906 b; W 508
Washburn field (Burleigh, McLean, and Oliver Counties) ........................................... B 381 a
Williams County ........................................................ B 531 e; 691 g
Williston field (Williams County) ................................................................................ B 531 e

OHIO

General ........................................................................ A 22 III d; P 100 b; B 65

Analyses ......................................................................... B 531 m, 621 p (See also reports on individual areas.)

Belmont County ............................................................ B 720
Cannel coal ........................................................................ B 659
Coshocton County ......................................................... B 659
Guernsey County ............................................................ B 720
Holmes County .................................................................. B 659
Huntington quadrangle (Lawrence County) ................................................................. GF 69
Jackson County .............................................................. B 659
Jefferson County ............................................................. B 659
Kenova district (Lawrence County) ............................................................................. B 349; GF 184
Kenova quadrangle (Lawrence County) ....................................................................... GF 184
Lawrence County ............................................................ B 349; GF 69, 184
Licking County ............................................................... B 659
Mahoning County ............................................................. B 659
Monroe County ............................................................... B 720
Noble County ................................................................. B 720
Peat, general ...................................................................... B 728
Reserves ........................................................................... P 100 b

Scioto County ................................................................. B 659
Steubenville quadrangle (Jefferson County) ................................................................ B 318
Summerfield quadrangle (Guernsey, Monroe, and Noble Counties) ............................. B 720
Woodsfield quadrangle (Belmont, Guernsey, and Monroe Counties) ......................... B 720

31
<table>
<thead>
<tr>
<th>Oklahoma</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>A 22 III i; B 260</td>
<td></td>
</tr>
<tr>
<td>Analyses</td>
<td>B 531 m, 621 p (See also reports on individual areas.)</td>
<td></td>
</tr>
<tr>
<td>Atoka County</td>
<td>A 19 III e; 21 II e; B 874 a, b; GF 74, 79; Map</td>
<td></td>
</tr>
<tr>
<td>Atoka quadrangle (Atoka and Coal Counties)</td>
<td>GF 79</td>
<td></td>
</tr>
<tr>
<td>Cherokee County</td>
<td>GF 132</td>
<td></td>
</tr>
<tr>
<td>Cherokee Creek field (Muskogee, Nowata, Okmulgee, Rogers, Tulsa, and Wagoner Counties)</td>
<td>B 260</td>
<td></td>
</tr>
<tr>
<td>Choctaw field (Atoka, Coal, Haskell, Hughes, Latimer, Le Flore, McIntosh, Muskogee, Okmulgee, Pittsburg, Pontotoc, and Sequoyah Counties)</td>
<td>A 19 III e; 21 II e; B 260</td>
<td></td>
</tr>
<tr>
<td>Coal County</td>
<td>A 19 III e, 21 II e; B 260, 874 b; GF 74, 79; Map</td>
<td></td>
</tr>
<tr>
<td>Coalgate quadrangle (Atoka, Coal, and Pittsburg Counties)</td>
<td>GF 74</td>
<td></td>
</tr>
<tr>
<td>Craig County</td>
<td>B 340 c</td>
<td></td>
</tr>
<tr>
<td>Haskell County</td>
<td>B 260, 874 c; Map</td>
<td></td>
</tr>
<tr>
<td>Howe district (Haskell, Latimer, and Le Flore Counties)</td>
<td>B 874 d; Map</td>
<td></td>
</tr>
<tr>
<td>Latimer County</td>
<td>A 21 II e; B 260, 874 a, c, d; Map</td>
<td></td>
</tr>
<tr>
<td>Le Flore County</td>
<td>A 21 II e; B 260, 874 d; Map</td>
<td></td>
</tr>
<tr>
<td>Lehigh district (Atoka, Coal, and Pittsburg Counties)</td>
<td>A 19 III e; B 874 b; Map</td>
<td></td>
</tr>
<tr>
<td>McAlester district (Atoka, Latimer, and Pittsburg Counties)</td>
<td>A 19 III e; B 874 a; Map</td>
<td></td>
</tr>
<tr>
<td>McIntosh County</td>
<td>B 260; GF 132</td>
<td></td>
</tr>
<tr>
<td>Muskogee County</td>
<td>B 260, 340 c; GF 132</td>
<td></td>
</tr>
<tr>
<td>Muskogee quadrangle (Cherokee, McIntosh, Muskogee, Sequoyah, and Wagoner Counties)</td>
<td>GF 132</td>
<td></td>
</tr>
<tr>
<td>Northeastern part (Craig, Muskogee, Nowata, Okmulgee, Rogers, Tulsa, and Wagoner Counties)</td>
<td>B 260, 340 c</td>
<td></td>
</tr>
<tr>
<td>Nowata County</td>
<td>B 260, 340 c</td>
<td></td>
</tr>
<tr>
<td>Okmulgee County</td>
<td>B 260, 340 c</td>
<td></td>
</tr>
<tr>
<td>Pittsburg County</td>
<td>A 19 III e, 21 II e; B 260, 874 a, b, c; GF 74; Map</td>
<td></td>
</tr>
<tr>
<td>Quinton-Scipio district (Haskell, Latimer, and Pittsburg Counties)</td>
<td>B 874 c; Map</td>
<td></td>
</tr>
<tr>
<td>Rogers County</td>
<td>B 260, 340 c</td>
<td></td>
</tr>
<tr>
<td>Sequoyah County</td>
<td>A 21 II e; B 260; GF 132</td>
<td></td>
</tr>
<tr>
<td>Stigler-Poteau district (Haskell, Le Flore, and Pittsburg Counties)</td>
<td>Map</td>
<td></td>
</tr>
<tr>
<td>Tulsa County</td>
<td>B 260, 340 c</td>
<td></td>
</tr>
<tr>
<td>Wagoner County</td>
<td>B 260, 340 c; GF 132</td>
<td></td>
</tr>
<tr>
<td>Wilburton district (Latimer County)</td>
<td>B 874 d; Map</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oregon</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>A 22 III k</td>
<td></td>
</tr>
<tr>
<td>Analyses</td>
<td>B 471 j, 531 m, 541 k (See also reports on individual areas.)</td>
<td></td>
</tr>
<tr>
<td>Clatsop County</td>
<td>A 17 I c</td>
<td></td>
</tr>
<tr>
<td>Columbia County</td>
<td>A 17 I c; 590</td>
<td></td>
</tr>
<tr>
<td>Coos Bay district (Coos County)</td>
<td>A 19 III c; B 431 b, 546; GF 73</td>
<td></td>
</tr>
<tr>
<td>Coos Bay quadrangle (Coos County)</td>
<td>A 17 I c, 19 III c; B 431 b, 541 i, 546, 560; GF 73, 89</td>
<td></td>
</tr>
<tr>
<td>Coos County</td>
<td>B 546; GF 89</td>
<td></td>
</tr>
<tr>
<td>Curry County</td>
<td>B 546; GF 49, 218</td>
<td></td>
</tr>
<tr>
<td>Douglas County</td>
<td>B 546</td>
<td></td>
</tr>
<tr>
<td>Eckley field (Curry County)</td>
<td>B 546</td>
<td></td>
</tr>
<tr>
<td>Eden Ridge field (Coos County)</td>
<td>B 546</td>
<td></td>
</tr>
</tbody>
</table>

32
Clarion County ................................................................. B 341 c, 546
Lane County ........................................................................... B 590
Lincoln County ....................................................................... A 17 I c
Lookingglass and Cams Valley fields (Douglas County) .......... B 546
Lower Neahalem field (Clatsop and Tillamook Counties) ....... A 17 I c
Marion County ....................................................................... A 17 I c; B 590
Morrow County ...................................................................... B 341 c
North Fork of the Umpqua River (Douglas County) ............... B 546
Peat, general ......................................................................... B 728
Port Orford quadrangle (Coos and Curry Counties) ............... GF 99
Riddle quadrangle (Douglas County) ................................... GF 218
Rogue River Valley (Jackson County) ................................... B 341 c, 546
Roseburg quadrangle (Douglas County) .............................. GF 49
Shasta Costa Creek (Curry County) ...................................... B 546
Southwestern part (Coos, Curry, Douglas, and Jackson Counties) B 546
Tillamook County ................................................................... A 17 I c, 590
Upper Nehalem field (Columbia County) ............................. A 17 I c
Willow Creek district (Morrow County) .............................. B 341 c
Yamhill County ...................................................................... A 17 I c; B 590
Yaquina field (Lincoln County) ............................................ A 17 I c

PENNSYLVANIA

General .................................................................................. A 22 III d
Accident quadrangle (Fayette and Somerset Counties) ............ GF 160
Allegheny County .................................................................. B 260, 286, 318, 456, 659, 828; GF 94, 134, 176, 177
Amity quadrangle (Greene and Washington Counties) ........ B 300; GF 144
Analyses ................................................................................ B 471 j, 531 m, 541 k, 621 p (See also reports on individual areas.)
Anthracite field, general ...................................................... P 193 d; A 22 III c, d
Armstrong County .................................................................. B 225, 256, 279, 454, 659; GF 115, 123, 125, 178
Barnesboro quadrangle (Cambria, Clearfield, and Indiana Counties) B 225; GF 189
Beaver County ........................................................................ B 260, 286, 318, 659, 873; GF 134, 176, 177
Beaver quadrangle (Allegheny and Beaver Counties) .......... B 286; GF 134
Bituminous field, general ...................................................... B 65, 213
Blair County ......................................................................... B 225; GF 189, 196, 227
Brownsville quadrangle (Allegheny, Fayette, Washington, and Westmoreland Counties) GF 94
Burgettstown quadrangle (Allegheny, Beaver, and Washington Counties) ........................................ B 260, 318; GF 177
Butler County ....................................................................... B 270, 454, 659, 829, 873; GF 115, 176, 178
Butler quadrangle (Butler County) ......................................... B 873
Cambria County ..................................................................... B 225, 316 a, 447; GF 133, 174, 189, 224
Cannel coal .......................................................................... B 659
Carnegie quadrangle (Allegheny and Washington Counties) B 456; GF 177
Center County ...................................................................... B 659
Claysville quadrangle (Washington County) ...................... B 318; GF 180
Clearfield County ............................................................... B 225, 285 f, 659; GF 189
Clearfield district (Clearfield County) ................................. B 286 f
Clarion County ..................................................................... B 270, 316 a, 464; GF 115, 125, 178
Clarion quadrangle (Clarion County) ................................ B 316 a; GF 178
Connelsville quadrangle (Fayette and Westmoreland Counties) GF 94
Ebensburg quadrangle (Blair and Cambria Counties) .......... GF 133
Elders Ridge quadrangle (Armstrong and Indiana Counties) B 225, 256; GF 123
Fayette County ..................................................................... GF 82, 94, 121, 160
Foxburg quadrangle (Armstrong, Butler, Clarion, and Venango Counties) ........................................... B 454; GF 178

33
Gaines quadrangle (Tioga County) .................................................. GF 22
Glen Campbell field (Indiana and Jefferson Counties) ........................................ B 285 f
Grantsville quadrangle (Somerset County) ................................................. GF 160
Greene County .................................................. B 300; GF 82, 121, 144, 146

Hollidaysburg quadrangle (Bedford and Blair Counties) ........................................ GF 227
Huntingdon County .................................................. GF 227
Huntingdon quadrangle (Blair and Huntingdon Counties) ........................................ GF 227

Indiana County .................................................. B 225, 266, 285 f, 316 a, 659; GF 102, 110, 123, 174, 189
Indiana quadrangle (Indiana County) .................................................. GF 102

Jefferson County .................................................. B 285 f
Johnstown quadrangle (Cambria, Indiana, Somerset, and Westmoreland Counties) ........................................ B 318 a, 447, GF 174

Kittanning quadrangle (Armstrong, Butler, and Clarion Counties) ........................................ B 276; GF 115

Latrobe quadrangle (Indiana and Westmoreland Counties) ........................................ GF 110
Lawrence County .................................................. B 873

Masontown quadrangle (Fayette, Greene, and Washington Counties) ........................................ GF 22
New Kensington quadrangle (Allegheny, Butler, and Westmoreland Counties) ........................................ B 829

Patton quadrangle (Blair, Cambria, and Clearfield Counties) ........................................ B 225; GF 189
Peat, general .................................................. B 728
Punxsutawney field (Indiana and Jefferson Counties) ........................................ B 285 f

Rogersville quadrangle (Greene County) .................................................. GF 146
Rural Valley quadrangle (Armstrong and Clarion Counties) ........................................ B 278; GF 125

Sewickley quadrangle (Allegheny, Beaver, and Butler Counties) ........................................ GF 176
Somerset County .................................................. B 316 a, 447; GF 160, 174, 224
Somerset quadrangle (Somerset and Westmoreland Counties) ........................................ GF 224
Steubenville quadrangle (Beaver and Washington Counties) ........................................ B 318

Tioga County .................................................. GF 92
Uniontown quadrangle (Fayette County) .................................................. GF 82

Venango County .................................................. B 454; GF 178

Warren County .................................................. GF 172
Warren quadrangle (Warren County) .................................................. GF 172
Washington County .................................................. B 260, 300, 318, 456; GF 82, 94, 121, 144, 177, 180
Waynesburg quadrangle (Greene, Fayette, and Washington Counties) ........................................ GF 121
Westmoreland County .................................................. B 316 a, 447, 659, 828; GF 84, 110, 174, 224
Wilmore Basin (Cambria County) .................................................. B 225
Windber quadrangle (Cambria and Somerset Counties) ........................................ GF 224
Wyoming County .................................................. P 210 b

Zellenopole quadrangle (Beaver, Butler, and Lawrence Counties) ........................................ B 873

RHODE ISLAND

Narrangansett basin (Kent, Newport, and Providence Counties) ........................................ M 33; B 541 f, 615
Peat, general .................................................. B 728

SOUTH CAROLINA

Peat, general .................................................. B 728

SOUTH DAKOTA

Aladdin quadrangle (Butte County) .................................................. GF 128
Analyses .................................................. B 471 j, 531 m (See also reports on individual areas.)
<table>
<thead>
<tr>
<th>Location</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Hills region (Fall River County)</td>
<td>B 490</td>
</tr>
<tr>
<td>Butte County</td>
<td>GF 128</td>
</tr>
<tr>
<td>Cheyenne River Indian Reservation (Dewey and Ziebach Counties)</td>
<td>B 575</td>
</tr>
<tr>
<td>Corson County</td>
<td>B 21, 575</td>
</tr>
<tr>
<td>Custer County</td>
<td>GF 108</td>
</tr>
<tr>
<td>Dewey County</td>
<td>B 21, 575</td>
</tr>
<tr>
<td>Edgemont quadrangle (Custer and Fall River Counties)</td>
<td>GF 108</td>
</tr>
<tr>
<td>Fall River County</td>
<td>B 490; GF 108</td>
</tr>
<tr>
<td>Great Sioux Reservation (Corson, Dewey, and Perkins Counties)</td>
<td>B 21</td>
</tr>
<tr>
<td>Harding County</td>
<td>B 627</td>
</tr>
<tr>
<td>Perkins County</td>
<td>B 21, 627</td>
</tr>
<tr>
<td>Standing Rock Indian Reservation (Corson County)</td>
<td>B 575</td>
</tr>
<tr>
<td>Ziebach County</td>
<td>B 575</td>
</tr>
</tbody>
</table>

**TENNESSEE**

<table>
<thead>
<tr>
<th>Location</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>A 22 III e</td>
</tr>
<tr>
<td>Analyses</td>
<td>B 471 j, 821 p (See also reports on individual areas.)</td>
</tr>
<tr>
<td>Anderson County</td>
<td>B 225; GF 33</td>
</tr>
<tr>
<td>Bledsoe County</td>
<td>GF 6, 21</td>
</tr>
<tr>
<td>Bon Air and Clifty coal district (Cumberland and White Counties)</td>
<td>B 641 k</td>
</tr>
<tr>
<td>Briceville quadrangle (Anderson, Campbell, Morgan, and Scott Counties)</td>
<td>GF 33</td>
</tr>
<tr>
<td>Campbell County</td>
<td>P 49 i; B 225, 659; GF 33, 75</td>
</tr>
<tr>
<td>Cannel coal</td>
<td>B 659</td>
</tr>
<tr>
<td>Chattanooga quadrangle (Bledsoe, Hamilton, Marion, Rhea, and Sequatchie Counties)</td>
<td>GF 6</td>
</tr>
<tr>
<td>Claiborne County</td>
<td>P 49 i; B 225, GF 75</td>
</tr>
<tr>
<td>Cumberland County</td>
<td>B 641 k; GF 4, 21, 40, 53</td>
</tr>
<tr>
<td>Cumberland Gap region (Anderson, Campbell, Claiborne, Morgan, and Scott Counties)</td>
<td>P 49 i; B 225</td>
</tr>
<tr>
<td>Fentress County</td>
<td>GF 40, 53</td>
</tr>
<tr>
<td>Grundy County</td>
<td>GF 8, 19</td>
</tr>
<tr>
<td>Hamilton County</td>
<td>GF 2, 6</td>
</tr>
<tr>
<td>Kingston quadrangle (Cumberland, Morgan, Rhea, and Roane Counties)</td>
<td>GF 4</td>
</tr>
<tr>
<td>Loudon quadrangle (Morgan County)</td>
<td>GF 25</td>
</tr>
<tr>
<td>Marion County</td>
<td>GF 2, 6, 8, 19</td>
</tr>
<tr>
<td>Maynardville quadrangle (Campbell and Claiborne Counties)</td>
<td>GF 75</td>
</tr>
<tr>
<td>McMinnville quadrangle (Grundy, Van Buren, and Warren Counties)</td>
<td>GF 22</td>
</tr>
<tr>
<td>Morgan County</td>
<td>B 225; GF 4, 26, 33, 40</td>
</tr>
<tr>
<td>Overton County</td>
<td>GF 53</td>
</tr>
<tr>
<td>Pickett County</td>
<td>GF 53</td>
</tr>
<tr>
<td>Pikeville quadrangle (Bledsoe, Cumberland, Rhea, Sequatchie, Van Buren, and White Counties)</td>
<td>GF 21</td>
</tr>
<tr>
<td>Putnam County</td>
<td>GF 53</td>
</tr>
<tr>
<td>Rhea County</td>
<td>GF 4, 6, 21</td>
</tr>
<tr>
<td>Ringgold quadrangle (Marion and Hamilton Counties)</td>
<td>GF 2</td>
</tr>
<tr>
<td>Roane County</td>
<td>GF 4</td>
</tr>
<tr>
<td>County</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Scott County</td>
<td></td>
</tr>
<tr>
<td>Sequatchie County</td>
<td></td>
</tr>
<tr>
<td>Sewanee quadrangle</td>
<td>(Franklin, Grundy, Marion, and Sequatchie Counties)</td>
</tr>
<tr>
<td>Standingstone quadrangle</td>
<td>(Cumberland, Fentress, Overton, Pickett, and Putnam Counties)</td>
</tr>
<tr>
<td>Stevenson quadrangle</td>
<td>(Franklin and Marion Counties)</td>
</tr>
<tr>
<td>Van Buren County</td>
<td></td>
</tr>
<tr>
<td>Warren County</td>
<td></td>
</tr>
<tr>
<td>Wartburg quadrangle</td>
<td>(Cumberland, Fentress, Morgan, and Scott Counties)</td>
</tr>
<tr>
<td>White County</td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td></td>
</tr>
<tr>
<td>Atascosa County</td>
<td></td>
</tr>
<tr>
<td>Brazos field (northern part</td>
<td></td>
</tr>
<tr>
<td>of North Texas field)</td>
<td></td>
</tr>
<tr>
<td>Cannel coal</td>
<td></td>
</tr>
<tr>
<td>Colorado field (southern part</td>
<td></td>
</tr>
<tr>
<td>of North Texas field)</td>
<td></td>
</tr>
<tr>
<td>Dimmit County</td>
<td></td>
</tr>
<tr>
<td>Eagle Pass field (Maverick</td>
<td></td>
</tr>
<tr>
<td>County)</td>
<td></td>
</tr>
<tr>
<td>Eocene field (Dimmit, Webb,</td>
<td></td>
</tr>
<tr>
<td>and Zavala Counties)</td>
<td></td>
</tr>
<tr>
<td>Frio County</td>
<td></td>
</tr>
<tr>
<td>Maverick County</td>
<td></td>
</tr>
<tr>
<td>Medina County</td>
<td></td>
</tr>
<tr>
<td>North Texas field</td>
<td></td>
</tr>
<tr>
<td>Presidio County</td>
<td></td>
</tr>
<tr>
<td>San Carlos field (Presidio</td>
<td></td>
</tr>
<tr>
<td>County)</td>
<td></td>
</tr>
<tr>
<td>Santo Tomas cannel coal field</td>
<td></td>
</tr>
<tr>
<td>(Webb County)</td>
<td></td>
</tr>
<tr>
<td>Uvalde County</td>
<td></td>
</tr>
<tr>
<td>Uvalde quadrangle (Zavala</td>
<td></td>
</tr>
<tr>
<td>County)</td>
<td></td>
</tr>
<tr>
<td>Webb County</td>
<td></td>
</tr>
<tr>
<td>Zavala County</td>
<td></td>
</tr>
</tbody>
</table>

**United States**

<table>
<thead>
<tr>
<th>County</th>
<th>Notes</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
<td>A 22 III; P 100 a; Map</td>
</tr>
<tr>
<td>Production, annual, 1882</td>
<td></td>
<td>MR 1882 through MR 1923</td>
</tr>
<tr>
<td>through 1923</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Utah**

<table>
<thead>
<tr>
<th>County</th>
<th>Notes</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
<td>A 22 III j</td>
</tr>
<tr>
<td>Analyses</td>
<td></td>
<td>B 471 j, 531 m, 541 k, 621 p (See also reports on individual areas.)</td>
</tr>
<tr>
<td>Blacktail Mountain field</td>
<td></td>
<td>B 471 i</td>
</tr>
<tr>
<td>(Duchesne and Wasatch Counties)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Book Cliffs field</td>
<td></td>
<td>B 285 f, 316 e, 371, 852</td>
</tr>
<tr>
<td>(Carbon, Emery, Grand, and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sevier Counties)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cannel coal</td>
<td></td>
<td>B 659</td>
</tr>
<tr>
<td>Carbon County</td>
<td></td>
<td>B 285 f, 316 e, 371, 628, 783, 819, 852; Map</td>
</tr>
<tr>
<td>Castlegate district</td>
<td></td>
<td>B 703</td>
</tr>
<tr>
<td>(Carbon County)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Castle Valley</td>
<td></td>
<td>B 628</td>
</tr>
<tr>
<td>(Carbon, Emery, and Sevier</td>
<td></td>
<td>B 285 f, 581 e</td>
</tr>
<tr>
<td>Counties)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coalville field</td>
<td></td>
<td>B 341 c</td>
</tr>
<tr>
<td>(Summit County)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colob field</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Iron, Kane, and Washington</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counties)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Daggett County .................................................. B 415
Deep Creek district (Uintah County) .................................. B 471 i
Duchesne County ....................................................... B 471 i
Emery County ......................................................... B 285 f, 316 e, 371, 628, 819, 852; Map
Garfield County ...................................................... P 164
Grand County ......................................................... B 285 f, 316 e, 371, 541 j, 852
Harmony field (Iron and Washington Counties) ...................... B 341 c
Henry's Fork field (Daggett County) .................................. B 415
Iron County ........................................................... B 316 e, 341 c; W 993
Kaiparowits region (Garfield and Kane Counties) ................. P 164
Kanab field (Kane County) ........................................... B 341 c
Kane County .......................................................... P 164; B 341 c, 659
Lost Creek field (Morgan County) ................................... B 691
Mesa Verde field (Carbon and Emery Counties) ....................... Map
Morgan County ......................................................... B 691
Mt. Pleasant coal field (Sanpete County) .............................. Map
Northeastern part (Daggett and Uintah Counties) .................. B 415
Pleasant Valley district (Carbon and Emery Counties) ............ B 316 e
Salina Canyon district (Sevier County) ............................... B 796 c
San Juan County ....................................................... P 188
Sanpete County ................................................................ B 285 f, 316 e, 371, 541 j, 819; Map
Sevier County .......................................................... B 285 f, 316 e, 371, 628, 796 c, 819, 852
Summit County ........................................................... B 285 f, 581 e
Sunnyside district (Carbon County) .................................... B 793
Tabby Mountain field (Duchesne and Wasatch Counties) .......... B 471 i
Thompson district (Grand County) ..................................... B 541 j
Uintah County .......................................................... B 415, 471 i
Vernal field (Uintah County) ............................................. B 415, 471 i
Wales district (Sanpete County) ......................................... B 285 f, 541 j
Wasatch County ......................................................... B 471 i
Wasatch Plateau coal field (Carbon, Emery, Sanpete, and Sevier Counties) ........................................... B 819
Washington County ................................................... B 341 c
Weber River (Summit County) .......................................... B 285 f
Wellington district (Carbon County) .................................. B 793

VERMONT

Peat, general .......................................................... B 728

VIRGINIA

General ................................................................. A 22 II b
Amelia County .......................................................... A 19 II d; 22 III b
Analyses ............................................................... B 471 j, 531 m, 541 k, 621 p (See also reports on individual areas.)
Augusta County .......................................................... GF 14
Big Stone Gap (Lee, Scott, and Wise Counties) ................... B 111
Bland County .......................................................... GF 26
Bristol quadrangle (Dickenson, Russell, Scott, and Wise Counties) .................................................. GF 59
Buchanan County ...................................................... B 316 a, 348; GF 44
<table>
<thead>
<tr>
<th>Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chesterfield County</td>
<td>A 19 II d, 22 III b</td>
</tr>
<tr>
<td>Dante district (Russell County)</td>
<td>B 316 a</td>
</tr>
<tr>
<td>Dickenson County</td>
<td>B 316 a, 346, 541 f, k; GF 59</td>
</tr>
<tr>
<td>Estillville quadrangle (Scott, Lee, and Wise Counties)</td>
<td>GF 12</td>
</tr>
<tr>
<td>Goochland County</td>
<td>A 19 II d, 22 III b</td>
</tr>
<tr>
<td>Henrico County</td>
<td>A 19 II d, 22 III b</td>
</tr>
<tr>
<td>Lee County</td>
<td>B 111, 341 c; GF 12</td>
</tr>
<tr>
<td>Lignite</td>
<td>B 55</td>
</tr>
<tr>
<td>Lower Guest River (Wise County)</td>
<td>PN 1922</td>
</tr>
<tr>
<td>Peat, general</td>
<td>B 711 c, 728</td>
</tr>
<tr>
<td>Pocahontas quadrangle (Bland, Smyth, Tazewell, and Wythe Counties)</td>
<td>GF 26</td>
</tr>
<tr>
<td>Pocket district (Lee County)</td>
<td>B 341 c</td>
</tr>
<tr>
<td>Pound quadrangle (Dickenson and Wise Counties)</td>
<td>B 541 f</td>
</tr>
<tr>
<td>Powell Mountain (Scott County)</td>
<td>B 431 b, 541 f</td>
</tr>
<tr>
<td>Powhatan County</td>
<td>A 19 II d, 22 III b</td>
</tr>
<tr>
<td>Richmond Basin (Amella, Chesterfield, Goochland, Henrico, and Powhatan Counties)</td>
<td>A 19 II d, 22 III b</td>
</tr>
<tr>
<td>Rockingham County</td>
<td>GF 14</td>
</tr>
<tr>
<td>Russell County</td>
<td>B 316 a; GF 44, 59</td>
</tr>
<tr>
<td>Russell Fork (Buchanan, Dickenson, and Wise Counties)</td>
<td>B 316 a, 348</td>
</tr>
<tr>
<td>Scott County</td>
<td>B 111, 431 b, 541 f; GF 12, 59</td>
</tr>
<tr>
<td>Smyth County</td>
<td>GF 26</td>
</tr>
<tr>
<td>Staunton quadrangle (Augusta and Rockingham Counties)</td>
<td>GF 14</td>
</tr>
<tr>
<td>Tazewell County</td>
<td>GF 26, 44</td>
</tr>
<tr>
<td>Tazewell quadrangle (Buchanan, Russell, and Tazewell Counties)</td>
<td>GF 44</td>
</tr>
<tr>
<td>Wise County</td>
<td>B 111, 316 a, 348, 431 b, 541 f; GF 12, 59; PN 1922</td>
</tr>
<tr>
<td>Wythe County</td>
<td>GF 26</td>
</tr>
<tr>
<td><strong>WASHINGTON</strong></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>A 22 III k; P 474</td>
</tr>
<tr>
<td>Analyses</td>
<td>B 471 j, 621 p (See also reports on individual areas.)</td>
</tr>
<tr>
<td>Clallam Bay field (Clallam County)</td>
<td>B 260</td>
</tr>
<tr>
<td>Clallam County</td>
<td>B 260</td>
</tr>
<tr>
<td>Cowlitz County</td>
<td>B 260, 474, 531-1</td>
</tr>
<tr>
<td>Cowlitz River Valley (Cowlitz, Lewis, and Thurston Counties)</td>
<td>B 474, 531-1</td>
</tr>
<tr>
<td>Freshwater Bay field (Clallam County)</td>
<td>B 260</td>
</tr>
<tr>
<td>Glacier field (Whatcom County)</td>
<td>B 541 i</td>
</tr>
<tr>
<td>King County</td>
<td>A 18 III c; GF 54; Map</td>
</tr>
<tr>
<td>Kittitas County</td>
<td>GF 106, 139</td>
</tr>
<tr>
<td>Lewis County</td>
<td>B 474, 531-1; GF 54</td>
</tr>
<tr>
<td>Mount Stuart quadrangle (Kittitas County)</td>
<td>GF 106</td>
</tr>
<tr>
<td>Peat, general</td>
<td>B 728</td>
</tr>
<tr>
<td>Pierce County</td>
<td>A 18 III c; GF 54</td>
</tr>
<tr>
<td>Portland district (Cowlitz County)</td>
<td>B 260</td>
</tr>
<tr>
<td>Puget Sound (Pierce and King Counties)</td>
<td>A 18 III c</td>
</tr>
<tr>
<td>Skagit County</td>
<td>B 474</td>
</tr>
<tr>
<td>Skagit district (Skagit County)</td>
<td>B 474</td>
</tr>
<tr>
<td>Snoqualmie quadrangle (Kittitas County)</td>
<td>GF 139</td>
</tr>
</tbody>
</table>
General A 22 III d; B 651

Tacoma quadrangle (King and Pierce Counties) ........................................ B 474, 531-1

Thurston County ......................................................................................... B 541 1

Whatcom County ........................................................................................ B 541 1

WEST VIRGINIA

A 14 II; B 711 f; GF 28, 32

Accident quadrangle (Preston County) ....................................................... GF 180

Abram Creek coal field (Grant, Mineral, and Tucker Counties) ................ B 711 f, 716 h

Analyses ........................................................................................................ B 471 f, 531 m, 541 k, 621 p (See also reports on individual areas.)

Barbour County .......................................................................................... A 14 II l; B 659; GF 34

Berkeley County ......................................................................................... B 225, GF 179

Boone County .............................................................................................. B 659; GF 72, 77

Braxton County ............................................................................................ B 659; GF 34

Brooke County ............................................................................................. B 318

Buckhannon quadrangle (Barbour, Braxton, Lewis, Randolph, Upshur, and Webster Counties) .. GF 34

Cabell County ............................................................................................... GF 69

Cannel coal .................................................................................................... B 659

Charleston quadrangle (Boone, Kanawha, Lincoln, and Putnam Counties) .................. GF 72

Clay County .................................................................................................. B 280

Fayette County .............................................................................................. GF 77

Franklin quadrangle (Grant, Pendleton, Randolph, and Tucker Counties) ........ GF 32

Grant County ............................................................................................... A 14 II l; B 711 f; GF 28, 32

Hampshire County ........................................................................................ GF 179

Hancock County ........................................................................................... B 318

Hancock quadrangle (Berkeley and Morgan Counties) ................................ GF 179

Huntington quadrangle (Cabell, Lincoln, Logan, Putnam, and Wayne Counties) .... GF 69

Kanawha County .......................................................................................... B 659; GF 72, 77

Kenova district (Wayne County) ................................................................. B 348; GF 184

Kenova quadrangle (Wayne County) .......................................................... GF 184

Lewis County ................................................................................................ GF 34

Lincoln County ............................................................................................. B 659; GF 69, 72

Logan County ............................................................................................... B 659; GF 69

McDowell County ......................................................................................... GF 26, 44

Meadow Branch field (Berkeley and Morgan Counties) .......................... B 225

Mercer County ............................................................................................. GF 26, 77

Mineral County ............................................................................................ A 14 II l; B 711 f, 716 h; GF 28

Monterey quadrangle (Pocahontas County) .............................................. GF 61

Morgan County ............................................................................................. B 225; GF 179

Nicholas County ............................................................................................ B 260, 659

Nicholas quadrangle (Clay and Nicholas Counties) ................................... B 260

Pawpaw quadrangle (Hampshire and Morgan Counties) ............................ GF 179

Pendleton County ........................................................................................ GF 32

Piedmont quadrangle (Grant, Mineral, Preston, and Tucker Counties) .... GF 28

Pocahontas County ...................................................................................... GF 61

Pocahontas quadrangle (McDowell, Mercer, and Wyoming Counties) .... GF 26

Potomac field (Grant, Mineral, Preston, Randolph, and Tucker Counties) .. A 14 II l

Preston County .............................................................................................. A 14 II l; B 659; GF 28, 180

Putnam County ............................................................................................ GF 59, 72

Raleigh County ............................................................................................. GF 77

Raleigh quadrangle (Boone, Fayette, Kanawha, Mercer, Raleigh, Summers, and Wyoming Counties) .. GF 77

Randolph County ......................................................................................... A 14 II l; B 711 f; GF 32, 34

Roaring Creek field (Barbour and Randolph Counties) ............................... A 14 II l

Steubenville quadrangle (Brooke and Hancock Counties) ........................ B 318

Stony River field (Grant, Mineral, Tucker, and Randolph Counties) .......... B 711 f

Summers County .......................................................................................... GF 77
Tazewell quadrangle (McDowell and Wyoming Counties) .................................. A 14 II; B 711 f; GF 28, 32
Tucker County ........................................................................................................ A 659; GF 34
Upshur County .......................................................................................................... B 348, 659; GF 69, 184
Wayne County ......................................................................................................... B 659; GF 34
Webster County ......................................................................................................... GF 26, 44, 77
Wyoming County ...................................................................................................... B 728

Wisconsin

Peat, general ............................................................................................................ B 531

Wyoming

General .................................................................................................................... A 22 II a, j

Aladdin field (Crook County) .................................................................................. P 53; B 119, 225, 341 b
Aladdin quadrangle (Crook County) ...................................................................... B 659; GF 34
Albany County ......................................................................................................... B 316 d, 364, 806 d; GF 173
Alkali Butte field (Fremont County) ..................................................................... B 119, 471 g
Analyses ................................................................................................................ B 471 j, 531 m, 541 k (See also reports on individual areas.)

Barber field (Johnson County) ................................................................................ P 53; B 119, 225, 341 b
Bighorn Basin (Big Horn, Hot Springs, Park, and Washakie Counties) .............. P 53, 146; B 119, 225, 256 f, 341 b, 381 b, 821 b
Big Horn County ..................................................................................................... P 53; B 119, 225, 226 f, 341 b, 381 b, 821 b
Big Horn Mountains (Johnson and Sheridan Counties) ...................................... P 51; B 119, 385 f
Black Hills region (Crook and Weston Counties) ................................................. P 65; B 260, 499; GF 107, 127, 128, 150
Buffalo field (Johnson and Sheridan Counties) ..................................................... P 51; B 119, 285 f, 381 b; GF 142

Cambria field (Washakie County) ........................................................................ B 260, 499; GF 107
Campbell County .................................................................................................... B 316 b, 471 f, 796 a, 806 a
Carbon Basin (Carbon County) ........................................................................... B 316 d, 804
Carbon County ....................................................................................................... B 316 d, 804, 341 b, 804, 806 d
Converse County .................................................................................................... B 341 b, 471 f, 796 a, 806 a
Crook County ......................................................................................................... P 65; B 260, 499, 796 a; GF 127, 128, 150

Dayton quadrangle (Sheridan County) ................................................................. GF 141

Devils Tower quadrangle (Crook County) ............................................................. GF 150

Dry Cheyenne field (Converse County) ............................................................... B 806 a

Evanston field (Uinta County) ................................................................................ P 56; B 285 f

Fall River Basin (Sublette and Teton Counties) .................................................... B 316 d
Fort McKinney quadrangle (Johnson County) ....................................................... B 316 d

Fremont County ..................................................................................................... B 119, 316 d, 341 b, 471 g

Garland field (Big Horn and Park Counties) ......................................................... P 53; B 225, 341 b
Gebo field (Hot Springs County) .......................................................................... P 53; B 119, 225, 341 b
Gillette field (Campbell, Converse, Crook, Niobrara, and Weston Counties) ..... B 381 b, 796 a
Glenrock field (Converse and Natrona Counties) ................................................ B 341 b
Goshen County ....................................................................................................... W 70
Goshen Hole field (Goshen County) .................................................................... W 70
Grass Creek field (Hot Springs County) ............................................................... P 145; B 119, 341 b

great Divide Basin field (Carbon, Fremont, and Sweetwater Counties) ................ B 341 b
Green River region ................................................................................................. B 316 d, 341 b, 381 b, 543
Grays River field (Lincoln County) ....................................................................... B 316 d, 543, 680

Hams Fork region .................................................................................................. P 56; B 285 f, 316 d, 543, 680; Map
Hanna field (Carbon County) .............................................................................. B 316 d, 804
Hot Springs County .............................................................................................. P 53, 146; B 119, 225, 285 f, 341 b, 381 b
Hudson field (Fremont County) ........................................................................... B 119, 316 d, 471 g

Jackson Hole field (Teton County) ...................................................................... P 51; B 119, 285 f, 381 b, 471 f, 531 i, 806 a; GF 142

Johnson County ................................................................................................... Chart 27
Kemmerer field (Lincoln and Uinta Counties) ........................................ P 56; B 285 f, 316 d, 545; Map
Kindt Basin field (Carbon County) .................................................. B 316 d
Labarge Ridge field (Lincoln and Sublette Counties) .......................... B 316 d, 543
Laramie Basin (Albany and Carbon Counties) .................................... B 316 d, 364, 806 d
Laramie quadrangle (Albany County) .............................................. GF 173
Lincoln County .............................................................. P 56; B 285 f, 316 d, 543, 680; Map
Little Powder River field (Campbell County) .................................. B 471 f
Little Snake River field (Carbon and Sweetwater Counties) ............... B 341 b, 381 b
Lost Spring field (Converse and Niobrara Counties) .......................... B 471 f
McDougal field (Lincoln, Sublette, and Teton Counties) ....................... B 316 d, 543, 680
Meeteeetse field (Hot Springs and Park Counties) ............................ P 53, 145; B 119, 225, 285 b, 341 b
Minturn district (Campbell County) ............................................ B 381 b, 706 a
Muddy Creek field (Fremont County) ............................................. B 119, 471 g
Natrona County ........................................................................ B 341 b, 471 f, g
Newcastle quadrangle (Weston County) ........................................... GF 107
Niobrara County ........................................................................ B 471 f, 706 a
Oregon Basin field (Park County) ................................................... B 316 d, 543, 680; Map
Park County ................................................................................ B 316 d, 543, 680; Map
Pilot Butte field (Fremont County) ............................................... P 53, 145; B 119, 225, 285 f, 341 b, 921 b
Powder River field (Campbell, Johnson, and Sheridan Counties) ....... B 119, 471 g
Powder River field (Fremont and Natrona Counties) ......................... B 119, 471 g
Pumpkin Buttes field (Campbell, Converse, and Johnson Counties) ..... B 806 a
Rock Creek field (Albany and Carbon Counties) .................................. B 341 b, 381 b
Rock Springs field (Sweetwater County) ......................................... B 341 b, 381 b
Sheridan County .......................................................................... P 51; B 119, 285 f, 341 b, 381 b; GF 141
Sheridan field (Sheridan County) .................................................. P 51; B 119, 286 f, 341 b
Silvertip field (Park County) ...................................................... P 53; B 225, 285 f, 341 b
Skull Creek field (Weston County) .............................................. P 65; B 260, 499; GF 127
Southeastern field (Hot Springs and Washakie Counties) ................. P 53; B 225, 285 b, 381 b
Sublette County ........................................................................ B 316 d, 543
Sundance field (Crook County) .................................................... P 65; B 260, 499; GF 127
Sundance quadrangle (Crook and Weston Counties) ........................ GF 127
Sussex field (Converse, Johnson, and Natrona Counties) ................. B 381 b, 471 f
Sweetwater County ..................................................................... B 341 b, c, 381 b
Teton County .............................................................................. B 316 d, 543, 680; Chart 27
Uinta County .............................................................................. P 56; B 285 f
Washakie County ................................................................. P 53; B 225, 285 f, 341 b, 381 b
Weston County .......................................................................... P 65; B 260, 499, 796 a; GF 107, 127
Willow Creek coal area (Lincoln County) ..................................... B 56; Map
Wind River Basin (Fremont and Natrona Counties) ......................... B 119, 316 d, 471 g

FOREIGN

MEXICO

Santa Clara district ................................................................. B 962 a

PHILIPPINE ISLANDS

General ................................................................. MR 1905 b

GENERAL

All technologic work on coal was transferred from the Geological Survey to the Bureau of Mines in 1910, and all statistical work on coal was transferred to the Bureau of Mines in 1924. The bibliography of Bureau of Mines publications should be consulted for technologic and statistical information published since those dates.
ANALYSES, STATISTICS, AND TECHNOLOGY

Analyses ..........................  P 100 a; B 471 j, 531 m, 541 k, 621 p
Anthracite, general ..................... A 22 III c, d; P 100 a, 193 d; B 394; MR 1882 a, 1883-1884 a
Ash in coal, field determination of ........... B 621 a

Bibliography (Superseded by present publications) ............... MR 1907 II b, 1908 II a, 1909 II a, 1910 II a
Bituminous coal, reserves as of 1919 .............. P 100 a
Boghead coal, origin of ................ P 132 i
Briquets, status of industry, technology, tests ...... P 48 III; B 343, 366, 385, 403, 412; MR 1909 II b, 1920 II a
Burning of coal beds, effects of ................. P 108 a

Cannel coal in United States .................. B 659
Classification ................................ P 46, 100 a
Coal fields ................................ A 22 III a; P 100; MR 1907 II a, 1910 II a
Coal lands, valuation ......... B 364, 597
Coke, manufacture of .................... MR 1883-1884 a
Coking tests .................. P 48 III; B 336, 366
Conservation and production trends .......... B 394, 666 m

Distribution and use of coal .................. MR 1882 a, 1915 II k
Explosive gases and dusts .................. B 383, 425
Explosives used in mining ................. B 423
Fuel-testing plants, operations, tests by....... P 48; B 261, 280, 316 g, 323, 325, 332, 336, 348, 362, 366, 385
House-boiler tests ......................... B 366
Locomotive tests ........................ B 363, 402, 412
Mining ................................... MR 1883-1884 a
Mining accidents ......................... B 333, 399
Mining explosions, prevention .......... B 369, 383, 423, 425

Oxygen in coal, effects of .................. B 382
Peat, distribution, resources, technology, uses .... B 376, 379 a, 394, 442 b, 711 c, 728; MR 1894 IV l, 1904 g, 1907 II b, 1908 II a, g, 1910 II a, c, 1913 II g, 1914 II h, 1917 II c, 1918 II h
Prices, 1813-1918 ...................... MR 1918 II b
Producer-gas plants, status, tests ............... P 48 III; B 316 g, 383, 416
Production, annual statistics, 1832 through 1923 .... MR 1882 through 1923
Purchase under Government specifications .... B 336, 378, 428

Rank of coal ................. P 48, 100 a
Regulations, coal-mining methods .......... Regulations
Resins in coal .................. P 85 e
Reserves, as of 1919 ................. P 100 a

Sampling ................................ P 48; B 316 g, 362
Small sizes of anthracite, use of .............. B 378
Smoke prevention ..................... B 394, 373; MR 1893 c
Spontaneous combustion of coal .......... P 108 a
Statistics, annual, 1882 through 1923 .... MR 1882 through 1923
Steam tests ........................ P 48 II; B 326, 366, 367, 403
Strikes and lockouts ................... MR 1922 II c

Tests, for U. S. Navy .................... MR 1894 k
Washing tests ......................... P 48 III; B 336, 368
Many of the U. S. Geological Survey publications on coal listed on the preceding pages may be consulted in the following libraries:

**Alabama:**

Auburn:  
Alabama Polytechnic Institute

Birmingham:  
Birmingham Southern College  
Howard College  
Public

Florence:  
State Teachers College

Jacksonville:  
State Teachers College

Montgomery:  
Department of Archives and History, State Capitol  
State and Supreme Court

Spring Hill:  
Thomas Byrne Memorial

Tuskegee Institute:  
Hollis Burke Frissell

Tuscaloosa:  
State Geological Survey of Alabama  
University of Alabama

**Alaska:**

Fairbanks:  
Public

College:  
University of Alaska

Juneau:  
Territorial Bureau of Mines  
Territorial Historical

**Arizona:**

Flagstaff:  
Arizona State Teachers College

Phoenix:  
Department of Library and Archives  
Department of Mineral Resources  
Public

Tempe:  
Arizona State College

Thatcher:  
Gila Junior College

Tuscon:  
University of Arizona

**Arkansas:**

Conway:  
Hendrix College

Fayetteville:  
University of Arkansas

Hardy:  
Sharp County Public

Jonesboro:  
Arkansas State College

Little Rock:  
Arkansas Division of Geology  
Russellville:  
Arkansas Polytechnic College

**California:**

Arcata:  
Humboldt State College

Bakersfield:  
Kern County Free

Berkeley:  
University of California

Claremont:  
Pomona College  
Eureka:  
Eureka Free

Fresno:  
Fresno County Free

La Jolla:  
Scripps Institution of Oceanography

Long Beach:  
Public

Los Angeles:  
California Oil and Gas Association  
Department of Water and Power  
U. S. Geological Survey District Office  
Loyola University  
Occidental College  
Public  
University of California at Los Angeles  
University of Southern California

Oakland:  
Public

Palo Alto:  
Leland Stanford, Jr., University

Pasadena:  
California Institute of Technology

Redlands:  
University of Redlands

Richmond:  
Public

Riverside:  
Public

Sacramento:  
California State  
City Free  
Office of the State Engineer

San Diego:  
Public  
San Diego Society of Natural History  
San Diego State College

San Francisco:  
California Academy of Sciences  
California Division of Mines  
U. S. Geological Survey District Office  
Mechanics Mercantile  
Public  
Sierra Club  
State Mineralogist  
U. S. Bureau of Mines
California—Continued.
San Jose:
  Lick Observatory
  San Jose State College
Santa Barbara:
  Santa Barbara Public
Stockton:
  College of the Pacific
  Free Public
Torrance:
  Torrance Public

Colorado:
Boulder:
  University of Colorado
Colorado Springs:
  Colorado College
Denver:
  Colorado State
  Denver Mining Record
  Museum of Natural History Public
  Regis College
  State Mining Bureau
  University of Denver
  U. S. Bureau of Mines
  U. S. Geological Survey
  Denver Federal Center
  126 New Customhouse
Fort Collins:
  Experiment Station
  State Agricultural College
Golden:
  Colorado School of Mines
Gunnison:
  Western State College
Pueblo:
  McClelland Public

Connecticut:
Bridgeport:
  Public
Hartford:
  Connecticut State
  Public
  Trinity College
Middletown:
  Wesleyan University
New Haven:
  American Journal of Science
  Yale University
New London:
  Connecticut College
  U. S. Coast Guard Academy
Storrs:
  University of Connecticut
Waterbury:
  Silas Bronson

Delaware:
Dover:
  Delaware State
Newark:
  University of Delaware
Wilmington:
  Wilmington Institute Free

District of Columbia:
Washington:
  American Mining Congress
  American University
  Department of Agriculture
  Department of Commerce
  Federal Power Commission
  George Washington University
  Library of Congress
  National Geographic Society
  National War College
  Post Office Department, Historical Public
  Treasury Department
  U. S. Bureau of Mines
  U. S. Geological Survey
  U. S. National Museum

Florida:
Coral Gables:
  University of Miami
De Land:
  John B. Stetson University
Fort Lauderdale:
  Public
Gainesville:
  University of Florida
Jacksonville:
  Public
Lakeland:
  Public
Tallahassee:
  Florida Agricultural and Mechanical College
  Florida Geological Survey
  Florida State
  Florida State University
Winter Park:
  Rollins College

Georgia:
Athens:
  University of Georgia
Atlanta:
  Georgia Department of Mines, Mining, and Geology
  Georgia State
  Public
Augusta:
  Academy and Junior College
Collegeboro:
  Georgia Teachers
Dahonega:
  North Georgia College
Emory University:
  Asa Griggs Candler
Milledgeville:
  Georgia State College for Women
Savannah:
  Public

Hawaii:
Honolulu:
  Bernice Pauahi Bishop Museum
  College of Hawaii
  University of Hawaii
Idaho:

Boise:
- Public
- Idaho State Law
- Office of State Mine Inspector

Caldwell:
- Strahorn Memorial

Moscow:
- University of Idaho

Pocatello:
- Idaho State College

Illinois:

Carbondale:
- Southern Illinois State Normal University

Chicago:
- Chicago Academy of Sciences
- Chicago Natural History Museum
- John Crerar Museum of Science and Industry
- Newberry College
- Public
- University of Chicago
- Western Society of Engineers

Evanston:
- Northwestern University

Freeport:
- Public

Galesburg:
- Public

Jacksonville:
- MacMurray College

Kankakee:
- Olivet Nazarene College

Lisle:
- St. Procopius College

Monmouth:
- Monmouth College

Normal:
- Illinois State Normal University

Peoria:
- Public

Rockford:
- Public

Rock Island:
- Augustana College
- Public

Springfield:
- Illinois State
- Illinois State Mining Board

Urbana:
- University of Illinois

Wheaton:
- Wheaton College

Indiana:

Bloomington:
- Indiana Department of Conservation
- Indiana University

Crawfordsville:
- Wabash College

Earlham:
- Earlham College

Evansville:
- Public

Fort Wayne:
- Public

Greencastle:
- De Pauw University

Hanover:
- Hanover College

Huntington:
- City Free

Indianapolis:
- Indiana State
- Public

La Fayette:
- Agricultural Experiment Station
- Purdue University

Muncie:
- Public

Notre Dame:
- Notre Dame University

Richmond:
- Morrison-Reeves

Terre Haute:
- Indiana State Teachers College

Valparaiso:
- Valparaiso University

Iowa:

Ames:
- Iowa State College

Boone:
- Erickson Free Public

Cedar Falls:
- Iowa State Teachers College

Cedar Rapids:
- Coe College

Council Bluffs:
- Free Public

Davenport:
- Public Museum

Des Moines:
- Drake University
- Iowa State Traveling Public

State Mine Inspector

Dubuque:
- Carnegie Stout Free Public

Fairfield:
- Free Public

Fayette:
- Upper Iowa University

Grinnell:
- Grinnell College

Indiana:
- Simpson College

Iowa City:
- State University of Iowa
- Iowa Geological Survey

Lamoni:
- Graceland College

Mount Pleasant:
- Iowa Wesleyan College

Mount Vernon:
- Cornell College

Sioux City:
- Academy of Science and Letters
- Public
Kansas:
Baldwin City:
   Baker University
Emporia:
   Kansas State Teachers College
Hays:
   Fort Hays Kansas State College
Lawrence:
   State Geological Survey of Kansas
   University of Kansas
Manhattan:
   Kansas State Agricultural College
Pittsburg:
   Public
Salina:
   Kansas Wesleyan University
Topeka:
   Kansas State
   Kansas State Historical Society
   State Board of Agriculture
Wichita:
   University of Wichita

Kentucky:
Ashland:
   Public
Bowling Green:
   Western Kentucky State Teachers College
Danville:
   Centre College
Frankfort:
   Dept. of Library and Archives,
   Legislative and Law
Lexington:
   Agricultural Experiment Station
   Kentucky Geological Survey
   University of Kentucky
Louisville:
   Free Public
   University of Louisville
Murray:
   State Teachers College
Winchester:
   Kentucky Wesleyan College

Louisiana:
Baton Rouge:
   Louisiana Geological Survey
   Louisiana State University
   Louisiana State University Law
Lafayette:
   Southwestern Louisiana Institute
Lake Charles:
   John McNeese Junior College
Natchitoches:
   Northwestern State College of Louisiana
New Orleans:
   Law Library of Louisiana
   Loyola University
   Public
   Tulane University
Ruston:
   Louisiana Polytechnic Institute
Shreveport:
   Shreve Memorial
   Centenary College

Maine:
Augusta:
   Maine State
   Public Utilities Commission
Bangor:
   Public
Brunswick:
  Bowdoin College
Lewiston:
   Bates College
Crono:
   Maine Geological Survey
   University of Maine
Portland:
   Portland Society of Natural History
   Public
Waterville:
   Colby College

Maryland:
Annapolis:
   Maryland State
   U. S. Naval Academy
   U. S. Postgraduate School
Baltimore:
   Enoch Pratt Free
   Johns Hopkins University
   Manufacturers Record
   Morgan State
   Peabody Institute
Chesterfield:
   Washington College
   College Park:
   University of Maryland
   Westminster:
   Western Maryland College

Massachusetts:
Amherst:
   Amherst College
   Massachusetts State College
Boston:
   Boston Athenaeum
   Boston Society of Natural History
   Boston University
   New England Museum of Natural History
   Public
   State Library of Massachusetts
Brookline:
   Public
Cambridge:
   Harvard University
   Harvard University Museum
   Massachusetts Institute of Technology
Medford:
   Tufts College
New Bedford:
   Public
Northampton:
   Smith College
Salem:
   Essex Institute
   Peabody Academy of Science
South Hadley:
   Mount Holyoke College
Wellesley:
   Wellesley College
Massachusetts--Continued.

Williamstown:
Williams College

Worcester:
American Antiquarian Society
Clark University
Free Public

Michigan:

Ann Arbor:
University of Michigan

Battle Creek:
Willard

Benton Harbor:
Public

Bloomfield Hills:
Cranbrook Institute of Science

Detroit:
Public
University of Detroit
Wayne University

East Lansing:
Michigan State College of Agriculture and Applied Science

Grand Rapids:
Public

Houghton:
Michigan College of Mines and Technology

Ishpeming:
Lake Superior Mining Institute

Kalamazoo:
Public

Lansing:
Michigan State

Muskegon:
Hackett Public

Port Huron:
Public

Saginaw:
Hoyt Public

Minnesota:

Duluth:
Public

Minneapolis:
E. J. Longyear Co.
Public
University of Minnesota

Northfield:
Carleton College
St. Olaf College

St. Paul:
Minnesota Academy of Science
Minnesota Historical Society
Minnesota State
Public
Science Museum

St. Peter:
Gustavus Adolphus College

Stillwater:
Carnegie Public

Mississippi--Continued.

Hattiesburg:
Mississippi Southern College

Jackson:
Mississippi State
Oxford:
University of Mississippi

Starkville:
Mississippi State College

University:
University of Mississippi

Vicksburg:
Mississippi River Commission

Missouri:

Cape Girardeau:
State Teachers College

Columbia:
University of Missouri

Fulton:
Westminster College

Hannibal:
Free Public

Jefferson City:
Lincoln University
Missouri Supreme Court

Kansas City:
Public-
University of Kansas City

Liberty:
William Jewell College

Rolla:
Missouri Division of Geological Survey and Water Resources

School of Mines and Metallurgy

St. Joseph:
Public

St. Louis:
Academy of Science of St. Louis

Missouri Botanical Gardens

Public

St. Louis University
Washington University

Springfield:
Drury College

Warrensburg:
State Teachers College

Montana:

Bozeman:
Montana State College

Butte:
Montana State School of Mines

Helena:
Historical Society of Montana

Missoula:
State University

Nebraska:

Blair:
Dana College

Crete:
Doane College

Fremont:
Midland College
Nebraska--Continued.

Lincoln:
   Nebraska Conservation and
   Survey Division
   Nebraska State
   University of Nebraska

Omaha:
   Municipal University of Omaha
   Public
   Scottsbluff:
   Public

Nevada:

Carson City:
   Nevada State
   Office of Inspector of Mines

Reno:
   University of Nevada
   Washoe County

New Hampshire:

Concord:
   New Hampshire State

Dover:
   Public

Durham:
   Hamilton Smith
   University of New Hampshire

Hanover:
   Dartmouth College

Laconia:
   Public

Manchester:
   City

New Jersey:

Atlantic City:
   Free Public

Bayonne:
   Free Public

Camden:
   Camden Free Public
   Convent Station:
   College of St. Elizabeth

Elizabeth:
   Public

Jersey City:
   Free Public

Madison:
   Drew University

Newark:
   Public

New Brunswick:
   Free Public
   Rutgers University

Princeton:
   Princeton University

South Orange:
   Seton Hall College

Trenton:
   New Jersey Department of Conservation
   and Economic Development
   Free Public
   New Jersey State

New Mexico:

Albuquerque:
   University of New Mexico

Las Vegas:
   New Mexico Highlands University

Santa Fe:
   New Mexico
   State Law

Silver City:
   New Mexico State Teachers
   College

Socorro:
   School of Mines

State College:
   New Mexico College of Agriculture
   and Mechanical Arts

New York:

Albany:
   New York State
   New York State Museum
   Office of State Engineer
   and Surveyor

Brooklyn:
   Brooklyn College
   Pratt Institute
   Public
   St. John's University

Buffalo:
   Buffalo Museum of Science
   Grosvenor
   Public
   University of Buffalo

Canton:
   St. Lawrence University

Farmingdale:
   State Institute of Applied
   Agriculture

Flushing:
   Queens College

Glens Falls:
   Crandall Free

Hamilton:
   Colgate University

Ithaca:
   Cornell University

Jamaica:
   Queens Borough Public

New Brighton:
   Staten Island Institute of Arts
   and Sciences

Newburgh:
   Newburgh Free

New York City:
   American Geographical Society
   American Institute of Mining and
   Metallurgical Engineers
   American Museum of Natural
   History

   Barnard College
   Bergens Museum
   Chemists Club
   College of the City of New York
   Columbia University
   Cooper Union
   Engineering and Mining Journal
New York--Continued.

Fordham University
Hunter College
H. W. Wilson Co.
New York Academy of Sciences
at American Museum
New York Botanical Garden
New York Law Institute
New York State Maritime College
New York University
Public
Public (Astor Branch)
Public (Lenox Branch)
Potsdam:
Clarkson College of Technology

Poughkeepsie:
Vassar College

Rochester:
Rochester Academy of Science
Rochester University
St. Bonaventure:
St. Bonaventure College
Schenectady:
Union College
Syracuse:
Syracuse University
Troy:
Public
Rensselaer Polytechnical Institute
Utica:
Public
West Point:
U. S. Military Academy
Yonkers:
Public

North Carolina:

Asheville:
Sondley Reference
Chapel Hill:
E. Mitchell Scientific Society
University of North Carolina
Charlotte:
Queens College
Davidson:
Davidson College
Durham:
Duke University
Greensboro:
Agricultural and Technical
College
Raleigh:
North Carolina Division of Mineral
Resources
North Carolina State
North Carolina State College
Salisbury:
Catawba College
Wake Forest:
Wake Forest College
Washington:
Public Schools
Wilson:
Atlantic Christian College
Wingate:
Wingate Junior College
Winston-Salem:
Salem College

North Dakota:

Bismarck:
State Historical Society
State Law
Fargo:
North Dakota Agricultural
College
Grand Forks:
North Dakota Geological Survey
University of North Dakota
Minot:
State Teachers College
Valley City:
State Teachers College

Ohio:

Akron:
University of Akron
Alliance:
Mount Union College
Ashland:
Ashland College
Athens:
Ohio University
Bowling Green:
Bowling Green State University
Bucyrus:
Public
Chillicothe:
Public
Cincinnati:
Public
University of Cincinnati
Cleveland:
Adelbert College, Western
Reserve University
Case
Public
Columbus:
American Ceramic Society
Geological Survey of Ohio
Ohio State
Public
State Board of Agriculture
Ohio State University
Dayton:
Public
University of Dayton
Delaware:
Ohio Wesleyan University
Gambier:
Kenyon College
Granville:
Denison University
Hiram:
Hiram College
Kent:
Kent State University
Marietta:
Marietta College
Oberlin:
Oberlin College
Oxford:
Miami University
Portsmouth:
Free Public
Sidney:
Public
Ohio--Continued.

Springfield:  Warder Public
Steubenville:  Public
Toledo:  Public
Van Wert:  Brumback
Wooster:  College of Wooster
Yellow Springs:  Antioch College
Youngstown:  Public

Oklahoma:

Ada:  East Central State Teachers College
Alva:  Northwestern State Teachers College
Bartlesville:  U. S. Bureau of Mines
Durant:  Southeastern Teachers College
Edmond:  Central State College
Enid:  Carnegie Public
Norman:  University of Oklahoma
Oklahoma City:  Oklahoma State
Shawnee:  Oklahoma Baptist University
Stillwater:  Oklahoma Agricultural and Mechanical College
Tahlequah:  Northeastern State Teachers College
Tulsa:  University of Tulsa

Oregon:

Corvallis:  Oregon State College
Eugene:  University of Oregon
Forest Grove:  Pacific University
Portland:  Library Association of Portland
Mazamas
Reed College
State Department of Geology and Mineral Industries
University of Portland
Salem:  Oregon State

Pennsylvania--Continued.

Bethlehem:  Lehigh University
Bradford:  Carnegie Public
Bryn Mawr:  Bryn Mawr College
Carlisle:  Dickinson College
Erie:  Public
Harrisburg:  Pennsylvania State
          Pennsylvania Bureau of Topographic and Geologic Survey
Haverford:  Haverford College
Huntingdon:  Juniata College
Johnstown:  Cambria Free
Lancaster:  Franklin and Marshall College
Meadville:  Allegheny College
Media:  Delaware County Institute of Science
Philadelphia:  Academy of Natural Sciences
            American Philosophical Society
            Franklin Institute
            Free Library of Philadelphia
            Philadelphia Commercial Museum
            Temple University
            University of Pennsylvania
            Wagner Free Institute of Science
Pittsburgh:  U. S. Bureau of Mines
            Carnegie Institute of Technology
            Carnegie Free Library of Allegheny County
            Carnegie Museum
            Engineers' Society of Western Pennsylvania
            University of Pittsburgh
Reading:  Public
Scranton:  Public
Somerset:  Public
State College:  Pennsylvania State College
Swarthmore:  Swarthmore College
Warren:  Warren Library Association
Washington:  Washington and Jefferson College
Wilkes-Barre:  Kings College
Wyoming Historical and Geological Society
Williamsport:  James V. Brown

Pennsylvania:

Allentown:  Muhlenberg College
Puerto Rico:

Mayaguez:
University of Puerto Rico College of Agriculture and Mechanical Arts
Rio Piedras:
University of Puerto Rico

Rhode Island:

Kingston:
Rhode Island State College
Providence:
Athenaeum
Brown University
Public
Rhode Island State
Westerly:
Public

South Carolina:

Charleston:
College of Charleston
Clemson:
Clemson College
Columbia:
South Carolina Geological Survey
South Carolina State
University of South Carolina
Rock Hill:
Winthrop College

South Dakota:

Brookings:
South Dakota State College
Mitchell:
Dakota Wesleyan University
Pierre:
South Dakota Free
Rapid City:
State School of Mines
Sioux Falls:
Carnegie Free Public
Spearfish:
Black Hills Teachers College
Vermillion:
South Dakota Geological Survey
University of South Dakota
Yankton:
Yankton College

Tennessee--Continued.

Nashville:
Carnegie
Tennessee Division of Geology
Tennessee State
Joint University Libraries
Sewanee:
University of the South

Texas:

Abilene:
Hardin-Simmons University
Alpine:
Sul Ross State Teachers College
Austin:
U. S. Geological Survey Field Office
Texas State
University of Texas
Brownwood:
Howard Payne College
Bryan:
Agricultural and Mechanical College of Texas
Texas Academy of Science
Canyon:
West Texas State Teachers College
Commerce:
East Texas State Teachers College
Dallas:
Public
Southern Methodist University
Denton:
North Texas State Teachers College
El Paso:
Public
Texas Western College
Fort Worth:
Public
Texas Christian University
Galveston:
Rosenberg
Georgetown:
Southwestern University
Houston:
Public
Huntsville:
Sam Houston Teachers College
Kingsville:
Texas College of Arts and Industries
Lubbock:
Texas Technological College
Marshall:
Bishop College
San Antonio:
Carnegie
Waco:
Baylor University

Utah:

Ephraim:
Snow College
Logan:
Utah State Agricultural College
Ogden:
Carnegie Free
Utah--Continued.

Provo:
  Brigham Young University
Salt Lake City:
  Distribution Office, U. S. Geological Survey
  Division of Mineral Statistics, U. S. Bureau of Mines
Public
  University of Utah
Utah State

Vermont:

Burlington:
  University of Vermont
Middlebury:
  Middlebury College
Montpeller:
  Vermont State
Northfield:
  Norwich University

Virginia:

Blacksburg:
  Virginia Polytechnic Institute
Bridgewater:
  Bridgewater College
Charlottesville:
  University of Virginia
  Virginia Geological Survey
Emory:
  Emory and Henry College
Fredericksburg:
  Mary Washington College
Hampden Sydney:
  Hampden Sydney College
Lexington:
  Virginia Military Institute
  Washington and Lee University
Norfolk:
  Norfolk Public
Petersburg:
  Virginia State College
Richmond:
  University of Richmond
  Virginia State
Salem:
  Roanoke College
Williamsburg:
  William and Mary College

Washington:

Everett:
  Public
Olympia:
  Washington Division of Mines and Geology
  Washington State
Pullman:
  State College of Washington
Seattle:
  Public
  University of Washington
Spokane:
  Public
  U. S. Geological Survey

Washington--Continued.

Tacoma:
  College of Puget Sound
Public
Walla Walla:
  Whitman College

West Virginia:

Athens:
  Concord College
Charleston:
  West Virginia State
Elkins:
  Davis and Elkins College
Fairmont:
  Fairmont State Teachers
Huntington:
  Marshall State Teachers
Institute:
  West Virginia State College
Morgantown:
  West Virginia Geological and Economic Survey
  West Virginia University
Salem:
  Salem College

Wisconsin:

Appleton:
  Lawrence College
Beloit:
  Beloit College
Fond Du Lac:
  Public
La Crosse:
  Public
Madison:
  State Geological and Natural History Survey
  State Historical Society
  University of Wisconsin
  Wisconsin State
Milwaukee:
  Public
  Public Museum
Platteville:
  Wisconsin Institute of Technology
Racine:
  Public
Superior:
  Public
  Superior State Teachers College

Wyoming:

Casper:
  Natrona County Public
Cheyenne:
  Wyoming State
Laramie:
  University of Wyoming