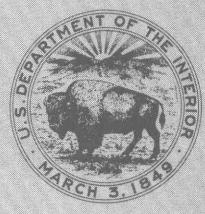


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# Bibliography and Index of U. S. Geological Survey Publications Relating to Coal, 1882—1970

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GEOLOGICAL SURVEY BULLETIN 1377





# Bibliography and Index of U. S. Geological Survey Publications Relating to Coal, 1882–1970

By PAUL AVERITT and LORREDA LOPEZ

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G E O L O G I C A L   S U R V E Y   B U L L E T I N   1 3 7 7

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**UNITED STATES DEPARTMENT OF THE INTERIOR**

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## PREFACE

About 1,300 U.S. Geological Survey publications related to coal and published prior to January 1, 1971, are listed in the following bibliography and in the index beginning on page 95. In the bibliography the reports are listed alphabetically by names of authors or senior authors, and reports of individual authors are listed chronologically. The numbers before the authors' names are for reference in using the index; they are not order or accession numbers.

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Most of the publications listed in the bibliography may be consulted in large public libraries and in most college and university libraries. A selected list of such libraries is given, beginning on page 161.

This bibliography includes reports describing results of technologic work on coal conducted by the Geological Survey prior to 1910, and results of statistical work carried on prior to 1924. Since these dates, the two functions have been carried on by the U.S. Bureau of Mines, and bibliographies of publications of that agency should be consulted for more recent technologic and statistical information.



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By Paul Averitt and Lorreda Lopez

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- Markets for coal, 1905*  
Competition with petroleum: Martin, G. C. 00735
- Matanuska field*  
Anthracite Ridge area: Waring, G. A. 01201  
Anthracite Ridge area, progress of surveys, 1931: Richards, R. W. 01053  
Anthracite Ridge, summary, 1931: Capps, S. R. 00217  
Eastern part: Tuck, Ralph. 01158  
Eska Creek area: Tuck, Ralph. 01157  
Exploration and development, 1950: Barnes, F. F. 00062  
Geologic problems at coal mines, 1917: Martin, G. C. 00747  
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Little Susitna area: Barnes, F. F. 00064  
Mining development, 1919: Chapin, Theodore. 00292  
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Moose Creek area: Waring, G. A. 01200  
Summary, 1923: Capps, S. R. 00212  
Summary, 1937: Capps, S. R. 00219  
Summary, 1904: Stone, R. W. 01099  
Wishbone Hill area: Barnes, F. F. 00063  
Wishbone Hill area, mining and exploration, 1945, Barnes, F. F. 00091  
Wishbone Hill district, Knob Creek area: Barnes, F. F. 00057

**Alaska**

- Matanuska field, eastern part*  
Stratigraphy, structure, coal-bearing rocks: Capps, S. R. 00213  
Stratigraphy, structure, coal-bearing rocks: Martin, G. C. 00750
- Matanuska field, western part*  
Geologic mapping, 1910, preliminary report: Martin, G. C. 00743  
Stratigraphy, structure, coal-bearing rocks: Martin, G. C. 00749
- Meade and Kaolak areas*  
North slope: Collins, F. R. 00249
- Mining industry*  
Summary, 1909: Brooks, A. H. 00125  
Summary, 1915: Brooks, A. H. 00127  
Summary, 1916: Brooks, A. H. 00128  
Summary, 1917: Martin, G. C. 00746  
Summary, 1935: Smith, P. S. 01044
- Moose Creek area*  
Matanuska field: Waring, G. A. 01200
- Mount McKinley National Park*  
Nenana field: Capps, S. R. 00216
- Mount Spurr region*  
Susitna field: Capps, S. R. 00215
- Murder Cove, Admiralty Island*  
Southeastern Alaska: Wright, C. W. 01360
- Nenana field*  
Bonnifield area: Capps, S. R. 00208  
Bonnifield area: Capps, S. R. 00209  
Fairbanks A-5 quadrangle: Wahrhaftig, Clyde. 01339  
Fairbanks A-4 quadrangle: Wahrhaftig, Clyde. 01340  
Fairbanks A-3 quadrangle: Wahrhaftig, Clyde. 01341  
Fairbanks A-2 quadrangle: Wahrhaftig, Clyde. 01342  
Healy and Lignite Creeks: Martin, G. C. 00745  
Healy and Lignite Creeks: Wahrhaftig, Clyde. 01188  
Healy Creek: Maddren, A. G. 00717  
Healy D-5 quadrangle: Wahrhaftig, Clyde. 01343  
Healy D-4 quadrangle: Wahrhaftig, Clyde. 01344  
Healy D-3 quadrangle: Wahrhaftig, Clyde. 01345  
Healy D-2 quadrangle: Wahrhaftig, Clyde. 01346  
Lignite Creek, stripping-coal: Wahrhaftig, Clyde. 01186  
Mount McKinley National Park: Capps, S. R. 00216  
Quaternary geology: Wahrhaftig, Clyde. 01185  
Stratigraphy, coal-bearing rocks: Wahrhaftig, Clyde. 01189  
Summary, 1937: Capps, S. R. 00219  
Teklanika River area: Capps, S. R. 00294  
Teklanika River area: Capps, S. R. 00295  
Teklanika River area: Moffit, F. H. 00774  
Western part: Wahrhaftig, Clyde. 01184

- Alaska**
- North slope*
- Chandler River region: Detterman, R. L. 00336
- Colville River region: Barnes, F. F. 00060
- General: Payne, T. G. 00871
- General: Smith, P. S. 01062
- Killik-Etiviluk region: Chapman, R. M. 00227
- Killik-Itkillik region: Patton, W. W., Jr. 00866
- Kukpowruk River district, T. I. S., R. 44 W.: Callahan, J. E. 00180
- Meade and Kaolak areas: Collins, F. R. 00249
- Point Barrow region: Paige, Sidney. 00805
- Shaviovik and Sagavanirktok Rivers region: Keller, A. S. 00600
- Simpson area: Robinson, F. M. 00966
- Subsurface stratigraphy, structure and economic geology: Collins, F. R. 00250
- Surveys in 1926: Smith, P. S. 01043
- Utukok-Corwin region: Chapman, R. M. 00228
- Northwestern part*
- Cape Lisburne Peninsula: Collier, A. J. 00238
- Cape Lisburne Peninsula: Collier, A. J. 00239
- Cape Lisburne Peninsula: Tailleur, I. L. 01117
- Cape Lisburne-Colville River region: Barnes, F. F. 00060
- Kobuk River: Cathcart, S. H. 00223
- Kobuk River: Smith, P. S. 01062
- Utukok-Corwin region: Chapman, R. M. 00228
- Nutzotin Range, north flank*
- White River district: Capps, S. R. 00210
- Peat*
- Preparation, use as fuel: Davis, C. A. 00321
- Preparation, use as fuel: Davis, C. A. 00324
- Point Barrow region*
- North slope: Paige, Sidney. 00805
- Prince of Wales Island, Kasaan (Coal) Bay*
- Southeastern Alaska: Buddington, A. F. 00136
- Production*
- Statistics, 1909: Parker, E. W. 00848
- Rampart district*
- Central Alaska: Collier, A. J. 00237
- Yukon River: Mertie, J. B., Jr. 00761
- Rampart-Manley Hot Springs district*
- Hunter Creek: Moxham, R. M. 00781
- Resources*
- Summary, 1967: Barnes, F. F. 00059
- Ruby-Anvik district*
- Central Alaska: Collier, A. J. 00237
- Ruby-Kuskokwim region*
- Central Alaska: Mertie, J. B., Jr. 00762
- Central Alaska: Mertie, J. B., Jr. 00765
- Central Alaska: Mertie, J. B., Jr. 00766
- Seward Peninsula*
- Chicago Creek, Candle area: Harrington, G. L. 00492
- Darby Mountains: West, W. S. 01288
- Koyuk River: Harrington, G. L. 00492
- Wilson Creek: Harrington, G. L. 00492
- Alaska**
- Shaviovik and Sagavanirktok Rivers region*
- North slope: Keller, A. S. 00600
- Simpson area*
- North slope: Robinson, F. M. 00966
- Sitkinak Island*
- Northeast side: Maddren, A. G. 00718
- Northeast side: Martin, G. C. 00744
- Summary, 1904: Stone, R. W. 01099
- Skwentna River area*
- Susitna field: Capps, S. R. 00214
- Southeastern part*
- Admiralty Island, Kootznahoo Inlet and Murder Cove: Wright, C. W. 01360
- Glacier Bay National Monument: MacKevett, E. M., Jr. 00715
- Kuiu Island, Port Camden: Wright, F. E. 01260
- Kupreanof Island, Hamilton Bay: Wright, F. E. 01260
- Prince of Wales Island, Kasaan (Coal) Bay: Buddington, A. F. 00136
- Southern part*
- Bering River field: Barnes, F. F. 00053
- Bering River field: Martin, G. C. 00732
- Bering River field: Martin, G. C. 00733
- Bering River field: Martin, G. C. 00734
- Bering River field: Martin, G. C. 00736
- Bering River field: Martin, G. C. 00741
- Bering River field: Plafker, George. 00905
- Bering River field: Twenhofel, W. S. 01162
- Broad Pass field: Hopkins, D. M. 00530
- Broad Pass field, Costello Creek basin: Wahrhaftig, Clyde. 01183
- Copper River basin, Fourth of July Creek: Moffit, F. H. 00773
- Kenai Peninsula: Twenhofel, W. S. 01162
- Kenai Peninsula, Homer district: Barnes, F. F. 00061
- Kenai Peninsula, Homer district, preliminary report: Barnes, F. F. 00054
- Kenai Peninsula, Kachemak Bay (Homer district): Martin, G. C. 00748
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- Matanuska field, eastern part: Capps, S. R. 00213
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- Matanuska field, eastern part: Tuck, Ralph. 01158
- Matanuska field, Eska Creek area: Tuck, Ralph. 01157
- Matanuska field, exploration and development, 1950: Barnes, F. F. 00062
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- Matanuska field, geologic reconnaissance, 1905: Martin, G. C. 00738
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- Matanuska field, Little Susitna area: Barnes, F. F. 00064
- Matanuska field, mining development, 1919: Chapin, Theodore. 00292
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- Matanuska field, Moose Creek area: Waring, G. A. 01200
- Matanuska field, summary, 1923: Capps, S. R. 00212
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- Matanuska field, western part: Martin, G. C. 00749
- Matanuska field, Wishbone Hill area: Barnes, F. F. 00063
- Matanuska field, Wishbone Hill area, mining and exploration, 1945: Barnes, F. F. 00091
- Matanuska field, Wishbone Hill district, Knob Creek area: Barnes, F. F. 00057
- Rank of coal, variations in: Barnes, F. F. 00056
- Summary, 1904: Stone, R. W. 01099
- Susitna field: Twenhofel, W. S. 01162
- Susitna field, Alaska Range, southern flank: Capps, S. R. 00218
- Susitna field, Beluga-Yentna area: Barnes, F. F. 00058
- Susitna field, Chulitna River area: Capps, S. R. 00211
- Susitna field, Mount Spurr region: Capps, S. R. 00215
- Susitna field, Skwentna River area: Capps, S. R. 00214
- Yakataga district, Robinson Mountains: Maddren, A. G. 00716
- Stripping-coal*
- Nenana field, Lignite Creek: Wahrhaftig, Clyde. 01186
- Susitna field*
- Alaska Range, southern flank: Capps, S. R. 00218
- Beluga-Yentna area: Barnes, F. F. 00058
- Chulitna River area: Capps, S. R. 00211
- Mount Spurr region: Capps, S. R. 00215
- Skwentna River area: Capps, S. R. 00214
- Summary, 1904: Stone, R. W. 01099
- Teklanika River area*
- Nenana field: Capps, S. R. 00294
- Nenana field: Capps, S. R. 00295
- Nenana field: Moffit, F. H. 00774

**Alaska***Unga Island field*

Alaska Peninsula: Atwood, W. W. 00038

*Uranium-bearing coal*

Fortymile district, Chicken area: Wedow, Helmut, Jr. 01263

Manley Hot Springs-Rampart district, Hunter Creek: Moxham, R. M. 00781

*Utukok-Corwin region*

Northwestern Alaska: Chapman, R. M. 00228

*White River district*

Coal Creek area: Capps, S. R. 00210

Coal Creek area: Moffit, F. H. 00775

Nutzotin Range, north flank: Capps, S. R. 00210

Ptarmigan Creek: Capps, S. R. 00210

*Wilson Creek*

Seward Peninsula: Harrington, G. L. 00492

*Wishbone Hill area*

Matanuska field: Barnes, F. F. 00063

*Wishbone Hill area, mining and exploration, 1945*

Matanuska field: Barnes, F. F. 00091

*Wishbone Hill district, Knob Creek area*

Matanuska field: Barnes, F. F. 00057

*Yakataga district, Robinson Mountains*

Southern Alaska: Maddren, A. G. 00716

*Yukon River*

Central Alaska: Collier, A. J. 00236

Central Alaska: Collier, A. J. 00237

Rampart field: Mertie, J. B., Jr. 00761

*Yukon River, Ruby-Anvik area*

Central Alaska: Chapman, R. M. 00226

*Yukon-Kuskokwim delta region*

Central Alaska: Coonrad, W. L. 00265

*Yukon-Tanana region*

Central Alaska: Mertie, J. B., Jr. 00763

**Analyses***Ohio*

Representative, 1915: Bownocker, J. A. 00116

*United States*

1907: Burrows, J. S. 00140

1911: Campbell, M. R. 00193

1912: Campbell, M. R. 00194

1913: Campbell, M. R. 00195

1914-1915: Campbell, M. R. 00199

1908-1909: Pope, G. S. 01059

1907: Randall, D. T. 00922

Representative, 1915: Campbell, M. R. 00297

*Utah*

1882: Daggett, Ellsworth. 00282

**Appalachian basin***Minor elements in coal*

Geochemical and geographic distribution:

Zubovic, Peter. 01312

**Appalachian basin, northern part***Coal fields*

Summary, 1900: White, David. 01294

**Appalachian basin, southern part***Coal fields*

Summary, 1900: Hayes, C. W. 00506

**Appalachian region***Peat*

Distribution, type, resources: Cameron, C. C. 01319



**Appalachian region***Resources*

Summary, 1965: Arndt, H. H. 00015

*Stratigraphy, structure, coal-bearing rocks*

Summary, 1965: Arndt, H. H. 00015

**Arizona***Apache County*

Black Mesa field: Campbell, M. R. 00200

Black Mesa field: Cooley, M. E. 00264

Black Mesa field: Gregory, H. E. 00455

Geology and ground-water resources: Akers, J. P. 00006

*Black Mesa field*

Apache, Coconino, and Navajo Counties: Campbell, M. R. 00200

Apache, Coconino, and Navajo Counties: Cooley, M. E. 00264

Apache, Coconino, and Navajo Counties: Gregory, H. E. 00455

Apache County, geology and ground-water resources: Akers, J. P. 00006

Cibecue quadrangle, Navajo County: Finnell, T. L. 00405

Kayenta and Chilchinbito quadrangles, Navajo County: Beaumont, E. C. 00079

*Chilchinbito quadrangle*

Navajo County: Beaumont, E. C. 00079

*Christmas quadrangle*

Pinal County: Willden, Ronald. 01212

*Cibecue quadrangle*

Navajo County: Finnell, T. L. 00405

*Coconino County*

Black Mesa field: Campbell, M. R. 00200

Black Mesa field: Cooley, M. E. 00264

Black Mesa field: Gregory, H. E. 00455

*Deer Creek field*

Christmas quadrangle, Pinal County: Willden, Ronald. 01212

Klondyke quadrangle, Graham and Pinal Counties: Simons, F. S. 01021

Pinal and Graham Counties: Campbell, M. R. 00164

Pinal and Graham Counties: Ross, C. P. 00974

*Graham County*

Deer Creek field: Campbell, M. R. 00164

Deer Creek field: Ross, C. P. 00974

Klondyke quadrangle: Simons, F. S. 01021

*Kayenta and Chilchinbito quadrangles*

Navajo County: Beaumont, E. C. 00079

*Klondyke quadrangle*

Graham and Pinal Counties: Simons, F. S. 01021

*Navajo County*

Black Mesa field: Campbell, M. R. 00200

Black Mesa field: Cooley, M. E. 00264

Black Mesa field: Gregory, H. E. 00455

Cibecue quadrangle: Finnell, T. L. 00405

Kayenta and Chilchinbito quadrangles: Beaumont, E. C. 00079

Pinedale field: Veatch, A. C. 01175

*Pinal County*

Christmas quadrangle: Willden, Ronald. 01212

Deer Creek field: Campbell, M. R. 00164

**Arizona***Pinal County*

Deer Creek field: Ross, C. P. 00974

Klondyke quadrangle: Simons, F. S. 01021

*Pinedale field*

Navajo County: Veatch, A. C. 01175

**Arkansas***Arkansas field*

General: Collier, A. J. 00240

*Camden field*

Ouachita County: Taff, J. A. 01119

*Cannel coal*

Camden field, Ouachita County: Taff, J. A. 01119

*Clarksville quadrangle*

Johnson and Logan Counties: Merewether, E. A. 00758

*Coal fields*

General: Collier, A. J. 00241

Summary, 1892: Branner, J. C. 00118

Summary, 1954: Haley, B. R. 00472

Summary, 1900: Taff, J. A. 01122

*Coal Hill quadrangle*

Franklin and Johnson Counties: Merewether, E. A. 00758

*Crawford County*

General: Hendricks, T. A. 00514

Winslow quadrangle: Purdue, A. H. 00920

*Dardanelle Reservoir area*

Yell, Pope, Logan, Johnson, and Franklin Counties: Haley, B. R. 00473

*Franklin County*

Coal Hill quadrangle: Merewether, E. A. 00758

Dardanelle Reservoir area: Haley, B. R. 00473

General: Hendricks, T. A. 00514

Winslow quadrangle: Purdue, A. H. 00920

*Greenwood quadrangle*

Sebastian County: Haley, B. R. 00478

*Hartman quadrangle*

Johnson and Logan Counties: Merewether, E. A. 00758

*Johnson County*

Coal Hill, Hartman, and Clarksville quadrangles: Merewether, E. A. 00758

Dardanelle Reservoir area: Haley, B. R. 00473

Scranton and New Blaine quadrangles: Haley, B. R. 00475

*Logan County*

Dardanelle Reservoir area: Haley, B. R. 00473

General: Hendricks, T. A. 00514

Hartman and Clarksville quadrangles:

Merewether, E. A. 00758

Scranton quadrangle: Haley, B. R. 00475

*New Blaine quadrangle*

Logan and Johnson Counties: Haley, B. R. 00475

*Ouachita County*

Camden field: Taff, J. A. 01119

*Pope County*

Dardanelle Reservoir area: Haley, B. R. 00473

Russellville West quadrangle: Haley, B. R. 00474

**Arkansas—Continued***Resources*

Summary: Haley, B. R. 00472

*Russellville West quadrangle*

Pope and Yell Counties: Haley, B. R. 00474

*Scott County*

Waldron quadrangle: Reinemund, J. A. 00933

*Scranton quadrangle*

Logan County: Haley, B. R. 00475

*Sebastian County*

General: Hendricks, T. A. 00514

Greenwood quadrangle: Haley, B. R. 00478

*Waldron quadrangle*

Scott County: Reinemund, J. A. 00933

*Washington County*

Winslow quadrangle: Purdue, A. H. 00920

*Winslow quadrangle*

Crawford, Franklin, and Washington

Counties: Purdue, A. H. 00920

*Yell County*

Dardanelle Reservoir area: Haley, B. R. 00473

Russellville West quadrangle: Haley, B. R. 00474

**Ash***Determination*

Field methods: Leshner, C. E. 00657

**Atlantic Coastal Plain***Potomac Formation*

Fossil wood and lignite: Knowlton, F. H. 00618

**Beryllium-bearing coal***United States*

Geochemical and geographic distribution:

Stadnichenko, Taisia. 01085

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1882-1906: Lee, W. T. 00643

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*Uranium-bearing coal*

United States, 1955: Kehn, T. M. 00587

**Boghead coal***Origin, composition*

Scotland, Alaska, Pennsylvania: Thiessen, Reinhardt. 01118

**Boilers***House, factory, locomotive*

Tests, 1907: Goss, W. F. M. 00447

Tests, 1908: Goss, W. F. M. 00448

*Smoke prevention*

Recommendations: Randall, D. T. 00921

Recommendations: Randall, D. T. 00923

*Steam production*

Significance of drafts: Ray, W. T. 00924

*Tests*

House, factory, locomotive: Randall, D. T. 01056

**Briquets***Statistics*

1915: Leshner, C. E. 00658

1916: Leshner, C. E. 00662

1917: Leshner, C. E. 00665

1918: Leshner, C. E. 00668

1920: McKenney, W. F. 00708

**Briquets***Statistics*

1921: McKenney, W. F. 00709

1922: McKenney, W. F. 00710

1923: McKenney, W. F. 00711

1907: Parker, E. W. 00843

1908: Parker, E. W. 00846

1909: Parker, E. W. 00849

1911: Parker, E. W. 00855

1912: Parker, E. W. 00857

1913: Parker, E. W. 00858

1914: Parker, E. W. 00861

1919: Tryon, F. G. 01151

*Status of industry*

Technology, tests, 1907: Mills, J. E. 00770

Technology, tests, 1906: Parker, E. W. 00842

Technology, tests, 1904: Parker, E. W. 00863

Technology, tests, 1907: Randall, D. T. 01056

Technology, tests, 1908: Ray, W. T. 00925

Technology, tests, 1908: Ray, W. T. 00926

Technology, tests: Wright, C. L. 01258

*Technology*

Tests, 1909: Wright, C. L. 01259

**Burning of coal beds***Effects of*

Montana: Rogers, G. S. 00970

**California***Amador County, Mokelumne area*

Geology and water resources: Piper, A. M. 00900

Geology and water resources: Stearns, H. T. 01092

*Coal fields*

Summary, 1900: Smith, G. O. 01031

Summary, 1892: Turner, H. W. 01159

*Marysville Buttes, Sutter County*

Marysville quadrangle: Lindgren, Waldemar. 00676

*Marysville quadrangle*

Sutter County: Lindgren, Waldemar. 00676

*Mokelumne area, Amador County*

Geology and water resources: Piper, A. M. 00900

Geology and water resources: Stearns, H. T. 01092

*Monterey County*

Mount Diablo Range: Arnold, Ralph. 00020

Priest Valley: Pack, R. W. 00803

Stone Canyon area: Campbell, M. R. 00192

Waltham Valley: Pack, R. W. 00803

*Mount Diablo Range*

Monterey County: Arnold, Ralph. 00020

*Priest Valley*

Monterey County: Pack, R. W. 00803

*San Benito County*

General: Campbell, M. R. 00190

*Stone Canyon area*

Monterey County: Arnold, Ralph. 00020

Monterey County: Campbell, M. R. 00192

*Sutter County*

Marysville quadrangle: Lindgren, Waldemar. 00676

*Uranium-bearing coal*

General: Moore, G. W. 00780

**California***Waltham Valley*

Monterey County: Pack, R. W. 00803

**Cannel coal***Arkansas, Ouachita County*

Camden field: Taff, J. A. 01119

*Origin, composition*

Kentucky, Pennsylvania: Thiessen, Reinhardt. 01118

*Texas*

Santo Tomas field, Webb County: Ashley, G. H. 00035

Santo Tomas field, Webb County: Lonsdale, J. T. 00694

Santo Tomas field, Webb County:  
Trowbridge, A. C. 01147

Santo Tomas field, Webb County: Vaughan, T. W. 01171

*United States*

Summary, 1917: Ashley, G. H. 00034

**Classification***Rank*

Specifications, 1915: Campbell, M. R. 00297

Specifications, 1904: Parker, E. W. 00863

**Clay associated with coal***Alabama*

Birmingham district: Butts, Charles. 00147

*Missouri*

Saint Louis district: Fenneman, N. M. 00396

*New Mexico*

San Juan basin, western part: Shaler, M. K. 01003

*Pennsylvania*

Clarion quadrangle, Clarion County: Lines, E. F. 00681

Johnstown quadrangle, Cambria, Indiana, Somerset, and Westmoreland Counties:  
Phalen, W. C. 00885

**Clinker***Origin and composition*

Montana: Rogers, G. S. 00970

**Coal fields***United States*

Summary, 1909: Campbell, M. R. 00203

Summary, 1915: Campbell, M. R. 00297

Summary, 1900-1901: Hayes, C. W. 00505

Summary, 1902: Hayes, C. W. 00507

Summary, 1910: Parker, E. W. 00851

Summary, 1907: Parker, E. W. 00891

**Coal lands***Classification*

Standards: Bass, N. W. 01317

Valuation: Ashley, G. H. 00031

Valuation: Smith, G. O. 01034

*Valuation*

Classification: Ashley, G. H. 00031

Classification: Smith, G. O. 01034

Procedures: Fisher, C. A. 00413

**Coal mining***Regulations*

Public lands, 1938: U.S. Geological Survey. 01166

**Coke***Manufacture of*

Tests, 1904: Parker, E. W. 00863

**Coke***Prices*

1913-1918: Leshner, C. E. 00669

*Production*

Statistics, 1914: Leshner, C. E. 00655

Statistics, 1915: Leshner, C. E. 00660

Statistics, 1916: Leshner, C. E. 00664

Statistics, 1918: Leshner, C. E. 00672

Statistics, 1921: McBride, R. S. 00706

Statistics, 1920: McBride, R. S. 00707

Statistics, 1896: Parker, E. W. 00821

Statistics, 1897: Parker, E. W. 00823

Statistics, 1898: Parker, E. W. 00825

Statistics, 1899: Parker, E. W. 00827

Statistics, 1900: Parker, E. W. 00829

Statistics, 1901: Parker, E. W. 00831

Statistics, 1902: Parker, E. W. 00833

Statistics, 1903: Parker, E. W. 00835

Statistics, 1904: Parker, E. W. 00837

Statistics, 1905: Parker, E. W. 00839

Statistics, 1906: Parker, E. W. 00841

Statistics, 1907: Parker, E. W. 00844

Statistics, 1908: Parker, E. W. 00847

Statistics, 1909: Parker, E. W. 00850

Statistics, 1910: Parker, E. W. 00852

Statistics, 1911: Parker, E. W. 00854

Statistics, 1913: Parker, E. W. 00859

Statistics, 1912: Parker, E. W. 00890

Statistics, 1922: Tryon, F. G. 01152

Statistics, 1923: Tryon, F. G. 01154

Statistics, 1883-1884: Weeks, J. D. 01267

Statistics, 1885: Weeks, J. D. 01268

Statistics, 1886: Weeks, J. D. 01269

Statistics, 1887: Weeks, J. D. 01270

Statistics, 1888: Weeks, J. D. 01271

Statistics, 1891: Weeks, J. D. 01272

Statistics, 1892: Weeks, J. D. 01273

Statistics, 1893: Weeks, J. D. 01274

Statistics, 1894: Weeks, J. D. 01275

Statistics, 1895: Weeks, J. D. 01277

**Coking coal***Tests*

Washing and coking: Belden, A. W. 00084

Washing and coking: Moldenke, Richard. 00776

*Western United States*

Summary, 1965: Averitt, Paul. 00041

Summary, 1950: Berryhill, L. R. 00107

**Colombia***Resources*

Summary, 1948: Singewald, Q. D. 01023

**Colorado***Adams County*

Denver basin: Emmons, S. F. 00286

Denver basin: Martin, G. C. 00742

*Anthracite-Crested Butte quadrangles*

Gunnison County: Emmons, S. F. 00363

*Arapahoe County*

Denver basin: Emmons, S. F. 00286

Denver basin: Martin, G. C. 00742

*Archuleta County*

Durango field: Taff, J. A. 01112

Ignacio area: Barnes, Harley. 00065

San Juan basin, northeastern part, and Pagosa Springs field: Cross, Whitman. 00273

**Colorado—Continued***Archuleta County*

San Juan basin, northern part: Gardner, J. H. 00431

San Juan basin, northern part: Larsen, E. S., Jr. 00633

Southern part: Wood, G. H., Jr. 01249

*Axial and Monument Butte quadrangles*

Moffat County: Hancock, E. T. 00484

*Banty Point quadrangle*

Rio Blanco County: Cullins, H. L. 00280

*Book Cliffs field*

Garfield and Mesa Counties: Erdmann, C. E. 00390

Garfield and Mesa Counties: Richardson, G. B. 00951

Garfield and Mesa Counties: Richardson, G. B. 01052

*Boulder County*

Louisville quadrangle: Spencer, F. D. 01074

*Canon City field*

Fremont County: Lee, W. T. 00686

Fremont County: Washburne, C. W. 01206

*Carbondale field*

Chair Mountain quadrangle, Gunnison and Pitkin Counties: Godwin, L. H. 00445

Garfield, Pitkin, and Gunnison Counties: Donnell, J. R. 00352

Marble quadrangle, Gunnison and Pitkin Counties: Gaskill, D. L. 00436

Marcellina Mountain quadrangle, Gunnison County: Gaskill, D. L. 00435

Ragged Mountain area, Gunnison County: Horn, G. H. 00532

*Casa Grande quadrangle*

Las Animas County: Pillmore, C. L. 00898

*Cerro Summit quadrangle*

Montrose County: Dickinson, R. G. 00338

Montrose County: Dickinson, R. G. 00374

*Chair Mountain quadrangle*

Gunnison and Pitkin Counties: Godwin, L. H. 00445

*Coal fields*

Summary, 1892: Hills, R. C. 00522

Summary, 1959: Landis, E. R. 00631

Summary, 1900: Storrs, L. S. 01109

*Coalmont district*

North Park field, Jackson County: Erdmann, C. E. 00391

North Park field, Jackson County: Hail, W. J., Jr. 00465

*Colorado Springs field*

Colorado Springs quadrangle, El Paso County: Finlay, G. I. 00403

Corral Bluffs quadrangle, El Paso County: Soister, P. E. 01061

El Paso County: Goldman, M. I. 00446

Hanover NW quadrangle, El Paso County: Soister, P. E. 01071

*Colorado Springs quadrangle*

El Paso County: Finlay, G. I. 00403

*Corral Bluffs quadrangle*

El Paso County: Soister, P. E. 01061

*Cortez area, eastern part*

Montezuma County: Cullins, H. L. 00281

**Colorado***Crested Butte field*

Anthracite-Crested Butte quadrangles, Gunnison County: Emmons, S. F. 00363

Gunnison County: Lee, W. T. 00638

Oh-be-joyful quadrangle, Gunnison County: Gaskill, D. L. 00437

*Dakota Sandstone*

Cortez area, eastern part, Montezuma County: Cullins, H. L. 00281

Dolores County: Cross, Whitman. 00273

Montrose and San Miguel Counties: Williams, P. L. 01251

Montrose, San Miguel and Dolores Counties: Cater, F. W. 01322

*Danforth Hills field*

Moffat and Rio Blanco Counties: Gale, H. S. 00426

Moffat and Rio Blanco Counties: Gale, H. S. 00468

Moffat and Rio Blanco Counties: Hancock, E. T. 00485

Moffat County: Hancock, E. T. 00484

Moffat County: Horn, G. H. 00531

Thornburg area, sections, coal-bearing rocks: Dyni, J. R. 01355

Thornburg oil and gas field: Dyni, J. R. 01356

*Delta County*

Grand Mesa and Somerset fields: Lee, W. T. 00638

Grand Mesa field: Lee, W. T. 00636

Gunnison Valley: Woodruff, E. G. 01244

Paonia field: Johnson, V. H. 00562

*Denver basin*

Adams, Arapahoe, Douglas, Jefferson, Larimer, and Weld Counties: Emmons, S. F. 00286

Adams, Arapahoe, Jefferson, Larimer, and Weld Counties: Martin, G. C. 00742

Colorado Springs field, El Paso County: Goldman, M. I. 00446

Colorado Springs quadrangle, El Paso County: Finlay, G. I. 00403

Corral Bluffs quadrangle, El Paso County: Soister, P. E. 01061

Hanover NW quadrangle, El Paso County: Soister, P. E. 01071

Jefferson County, Old Leyden mine: Gude, A. J., 3d. 00463

Kassler quadrangle, Jefferson and Douglas Counties: Scott, G. R. 01011

Louisville quadrangle, Boulder and Jefferson Counties: Spencer, F. D. 01074

Morrison quadrangle, Jefferson County: Smith, J. H. 01039

*Dolores County*

Dakota Sandstone: Cater, F. W. 01322

Dakota Sandstone: Cross, Whitman. 00273

*Douglas County*

Denver basin: Emmons, S. F. 00286

Kassler quadrangle: Scott, G. R. 01011

*Durango field*

Archuleta, La Plata, and Montezuma Counties: Taff, J. A. 01112

**Colorado***Durango field*

La Plata and Montezuma Counties: Schrader, F. C. 00991

La Plata and Montezuma Counties: Shaler, M. K. 01002

La Plata and Montezuma Counties: Zapp, A. D. 01348

La Plata County: Cross, Whitman. 00273

*El Paso County*

Colorado Springs field: Goldman, M. I. 00446

Colorado Springs quadrangle: Finlay, G. I. 00403

Corral Bluffs quadrangle: Soister, P. E. 01061

Hanover NW quadrangle: Soister, P. E. 01071

*Elk Springs quadrangle*

Moffat County: Dyni, J. R. 00360

*Elmoro quadrangle*

Las Animas County: Hills, R. C. 00523

*Fox Hills Sandstone, paleobotany*

Greeley quadrangle, Weld County: Knowlton, F. H. 00689

*Fremont County*

Canon City field: Washburne, C. W. 01206

Canyon City field: Lee, W. T. 00686

*Fruitland Formation, coal in, Bu values*

San Juan basin: Hinds, J. S. 00568

*Garfield County*

Book Cliffs field: Erdmann, C. E. 00390

Book Cliffs field: Richardson, G. B. 00951

Book Cliffs field: Richardson, G. B. 01052

Carbondale field: Donnell, J. R. 00352

Glenwood Springs quadrangle: Bass, N. W. 00071

Grand Hogback field: Gale, H. S. 00426

Grand Hogback field: Gale, H. S. 00468

Rifle Gap area: Horn, G. H. 00533

*Glenwood Springs quadrangle*

Garfield County: Bass, N. W. 00071

*Grand County*

Hot Sulphur Springs NE quadrangle: Wanek, A. A. 01196

Kremmling quadrangle, northeastern part:

Izett, G. A. 01329

Middle Park field: Hail, W. J., Jr. 00465

*Grand Hogback field*

Garfield and Rio Blanco Counties: Gale, H. S. 00426

Garfield and Rio Blanco Counties: Gale, H. S. 00468

Garfield County, Rifle Gap area: Horn, G. H. 00533

Glenwood Springs quadrangle, Garfield County: Bass, N. W. 00071

*Grand Mesa field*

Delta and Mesa Counties: Lee, W. T. 00638

Delta, Gunnison, and Mesa Counties: Lee, W. T. 00636

*Greeley quadrangle, Weld County*

Fox Hills Sandstone, paleobotany: Knowlton, F. H. 00689

*Gulnare, Cuchara Pass, and Stonewall area*

Huerfano and Las Animas Counties: Wood, G. H., Jr. 01228

**Colorado***Gunnison County*

Anthracite-Crested Butte quadrangles: Emmons, S. F. 00363

Carbondale field: Donnell, J. R. 00352

Chair Mountain quadrangle: Godwin, L. H. 00445

Crested Butte and Somerset fields: Lee, W. T. 00638

Grand Mesa field: Lee, W. T. 00636

Marble quadrangle: Gaskill, D. L. 00436

Marcellina Mountain quadrangle: Gaskill, D. L. 00435

Oh-be-joyful quadrangle: Gaskill, D. L. 00437

Paonia field: Johnson, V. H. 00562

Ragged Mountain area: Horn, G. H. 00532

*Gunnison Valley*

Mesa and Delta Counties: Woodruff, E. G. 01244

*Hanover NW quadrangle*

El Paso County: Soister, P. E. 01071

*Hot Sulphur Springs NE quadrangle*

Grand County: Wanek, A. A. 01196

*Huerfano County*

Gulnare, Cuchara Pass, and Stonewall area: Wood, G. H., Jr. 01228

Huerfano Park area: Johnson, R. B. 00555

La Veta area, Walsenburg field: Johnson, R. B. 00559

Spanish Peaks quadrangle: Hills, R. C. 00570

Trinidad field: Johnson, R. B. 00556

Trinidad field: Johnson, R. B. 00557

Trinidad quadrangle: Johnson, R. B. 00558

Trinidad-Aguilar area: Harbour, R. L. 00487

Trinidad-Aguilar area: Harbour, R. L. 00488

Walsenburg field: Johnson, R. B. 00554

Walsenburg field: Johnson, R. B. 00560

Walsenburg field: Lee, W. T. 00686

Walsenburg field: Richardson, G. B. 00952

Walsenburg quadrangle: Hills, R. C. 00524

*Huerfano Park area*

Huerfano and Custer Counties: Johnson, R. B. 00555

*Ignacio area*

La Plata and Archuleta Counties: Barnes, Harley. 00065

*Jackson County*

North Park field: Beekly, A. L. 00083

North Park field, Coalmont district:

Erdmann, C. E. 00391

North Park field, northwest part: Hail, W. J., Jr. 00466

North Park field, southwest part: Hail, W. J., Jr. 00465

*Jefferson County*

Denver basin: Emmons, S. F. 00286

Denver basin: Martin, G. C. 00742

Kassler quadrangle: Scott, G. R. 01011

Louisville quadrangle: Spencer, F. D. 01074

Morrison quadrangle: Smith, J. H. 01039

Old Leyden mine: Gude, A. J., 3d. 00463

*Kassler quadrangle*

Jefferson and Douglas Counties: Scott, G. R. 01011

**Colorado—Continued***Kremmling quadrangle, northeastern part*

Grand County: Izett, G. A. 01329

*La Plata County*

Durango field: Cross, Whitman. 00273

Durango field: Larsen, E. S., Jr. 00633

Durango field: Schrader, F. C. 00991

Durango field: Shaler, M. K. 01002

Durango field: Taff, J. A. 01112

Durango field: Zapp, A. D. 01348

Ignacio area: Barnes, Harley. 00065

La Plata quadrangle: Cross, Whitman. 00274

Mesa Verde area: Collier, A. J. 00244

Mesa Verde area: Wanek, A. A. 01195

Red Mesa area: Barnes, Harley. 00066

San Juan basin, northern part: Gardner, J. H. 00431

*La Plata quadrangle*

La Plata and Montezuma Counties: Cross, Whitman. 00274

*La Veta area*

Walsenburg field, Huerfano County: Johnson, R. B. 00559

*Larimer County*

Denver basin: Emmons, S. F. 00286

Denver basin: Martin, G. C. 00742

*Las Animas County*

Casa Grande quadrangle: Pillmore, C. L. 00898

Elmore quadrangle: Hills, R. C. 00523

Gulnare, Cuchara Pass, and Stonewall area: Wood, G. H., Jr. 01228

Raton—Brilliant—Koehler quadrangles: Lee, W. T. 00640

Spanish Peaks quadrangle: Hills, R. C. 00570

Starkville—Weston area: Wood, G. H., Jr. 01229

Stonewall—Tercio area: Wood, G. H., Jr. 01230

Trinidad field: Johnson, R. B. 00556

Trinidad field: Johnson, R. B. 00557

Trinidad field: Lee, W. T. 00686

Trinidad field: Richardson, G. B. 00952

Trinidad quadrangle: Johnson, R. B. 00558

Trinidad—Aguilar area: Harbour, R. L. 00487

Trinidad—Aguilar area: Harbour, R. L. 00488

*Louisville quadrangle*

Boulder and Jefferson Counties: Spencer, F. D. 01074

*Lower White River field*

Banty Point quadrangle, Rio Blanco County: Cullins, H. L. 00280

Elk Springs quadrangle, Moffat County: Dyni, J. R. 00360

Moffat and Rio Blanco Counties: Gale, H. S. 00426

Northeast Rangely area: Gaskill, D. L. 01362

Rio Blanco and Moffat Counties: Gale, H. S. 00425

*Marble quadrangle*

Gunnison and Pitkin Counties: Gaskill, D. L. 00436

*Marcellina Mountain quadrangle*

Gunnison County: Gaskill, D. L. 00435

**Colorado***Maudlin Gulch area*

Moffat County: Horn, G. H. 00531

*Meeker quadrangle*

Moffat and Rio Blanco Counties: Hancock, E. T. 00485

*Mellin Hill quadrangle*

Rio Blanco and Moffat Counties: Cullins, H. L. 01325

*Mesa County*

Book Cliffs field: Erdmann, C. E. 00390

Book Cliffs field: Richardson, G. B. 00951

Book Cliffs field: Richardson, G. B. 01052

Grand Mesa field: Lee, W. T. 00636

Grand Mesa field: Lee, W. T. 00638

Gunnison Valley: Woodruff, E. G. 01244

*Mesa Verde area*

Montezuma and La Plata Counties: Collier, A. J. 00244

Montezuma and La Plata Counties: Wanek, A. A. 01195

Montezuma County: Wanek, A. A. 01194

*Middle Park field*

Grand County: Hail, W. J., Jr. 00465

Hot Sulphur Springs NE quadrangle, Grand County: Wanek, A. A. 01196

*Minor elements in coal*

Geochemical and geographic distribution: Deul, Maurice. 01354

*Moffat County*

Axial and Monument Butte quadrangles:

Hancock, E. T. 00484

Danforth Hills and Lower White River fields: Gale, H. S. 00426

Danforth Hills field: Gale, H. S. 00468

Danforth Hills field: Hancock, E. T. 00485

Elk Springs quadrangle: Dyni, J. R. 00360

Lower White River field: Gale, H. S. 00425

Lower White River field, northeast Rangely area: Gaskill, D. L. 01362

Maudlin Gulch, Temple Canyon, and

Danforth Hills areas: Horn, G. H. 00531

Meeker quadrangle: Hancock, E. T. 00485

Mellin Hill quadrangle: Cullins, H. L. 01325

Thornburg area, sections, coal-bearing rocks: Dyni, J. R. 01355

Thornburg oil and gas field: Dyni, J. R. 01356

Williams Fork Mountains, Yampa field:

Horn, G. H. 00534

Yampa and Danforth Hills fields: Hancock, E. T. 00484

Yampa field: Bass, N. W. 00070

*Montezuma County*

Cortez area, eastern part: Cullins, H. L. 00281

Durango field: Schrader, F. C. 00991

Durango field: Shaler, M. K. 01002

Durango field: Taff, J. A. 01112

Durango field: Zapp, A. D. 01348

La Plata quadrangle: Cross, Whitman. 00274

Mesa Verde area: Collier, A. J. 00244

Mesa Verde area: Wanek, A. A. 01194

Mesa Verde area: Wanek, A. A. 01195

Red Mesa area: Barnes, Harley. 00066

**Colorado**

- Montrose County*  
 Cerro Summit quadrangle: Dickinson, R. G. 00338  
 Cerro Summit quadrangle: Dickinson, R. G. 00374  
 Dakota Formation: Larsen, E. S., Jr. 00633  
 Dakota Sandstone: Cater, F. W. 01322  
 Dakota Sandstone: Williams, P. L. 01251  
 Tongue Mesa field: Cross, Whitman. 00273
- Morrison quadrangle*  
 Jefferson County: Smith, J. H. 01039
- North Park field*  
 Grand County, Kremmling quadrangle, northeastern part: Izett, G. A. 01329  
 Jackson County: Beekly, A. L. 00083  
 Jackson County, Coalmont district: Erdmann, C. E. 00391
- North Park field, northwest part*  
 Jackson County: Hail, W. J., Jr. 00466
- North Park field, southwest part*  
 Jackson County: Hail, W. J., Jr. 00465
- Northeast Rangely area, Lower White River field*  
 Rio Blanco and Moffat Counties: Gaskill, D. L. 01362
- Oh-be-joyful quadrangle*  
 Gunnison County: Gaskill, D. L. 00437
- Old Leyden mine*  
 Jefferson County: Gude, A. J., 3d. 00463
- Ouray County*  
 Dakota Formation: Larsen, E. S., Jr. 00633  
 Ouray quadrangle: Cross, Whitman. 00272  
 Tongue Mesa field: Cross, Whitman. 00273
- Ouray quadrangle*  
 Ouray County: Cross, Whitman. 00272
- Pagosa Springs field*  
 Archuleta County: Cross, Whitman. 00273
- Paonia field*  
 Delta and Gunnison Counties: Johnson, V. H. 00562
- Park County*  
 South Park field: Washburne, C. W. 01205
- Pitkin County*  
 Carbondale field: Donnell, J. R. 00352  
 Chair Mountain quadrangle: Godwin, L. H. 00445  
 Marble quadrangle: Gaskill, D. L. 00436
- Ragged Mountain area*  
 Gunnison County: Horn, G. H. 00532
- Rangely oil field*  
 Mellin Hill quadrangle, Rio Blanco and Moffat Counties: Cullins, H. L. 01325
- Raton field*  
 [See Trinidad and Walsenburg fields]
- Red Mesa area*  
 La Plata and Montezuma Counties: Barnes, Harley. 00066
- Resources*  
 Summary: Landis, E. R. 00631  
 Summary, 1953: Spencer, F. D. 01079
- Rifle Gap area*  
 Garfield County: Horn, G. H. 00533
- Rio Blanco County*  
 Banty Point quadrangle: Cullins, H. L. 00280

**Colorado**

- Rio Blanco County*  
 Danforth Hills and Grand Hogback fields: Gale, H. S. 00468  
 Danforth Hills field: Hancock, E. T. 00485  
 Danforth Hills, Grand Hogback, and Lower White River fields: Gale, H. S. 00426  
 Lower White River field: Gale, H. S. 00425  
 Lower White River field, northeast Rangely area: Gaskill, D. L. 01362  
 Meeker quadrangle: Hancock, E. T. 00485  
 Mellin Hill quadrangle: Cullins, H. L. 01325  
 Thornburg area, sections, coal-bearing rocks: Dyni, J. R. 01355  
 Thornburg oil and gas field: Dyni, J. R. 01356
- Routt County*  
 Yampa field: Bass, N. W. 00070  
 Yampa field: Fenneman, N. M. 00397  
 Yampa field: Fenneman, N. M. 00398  
 Yampa field: Gale, H. S. 00425  
 Yampa field, Twentymile Park district: Campbell, M. R. 00196
- San Juan basin, general*  
 Fruitland Formation, coal in, Btu values: Hinds, J. S. 00568  
 Upper Cretaceous, subsurface geology: Fassett, J. E. 00393
- San Juan basin, northern part*  
 Archuleta and La Plata Counties: Cross, Whitman. 00273  
 Archuleta and La Plata Counties: Larsen, E. S., Jr. 00633  
 Archuleta County, southern part: Wood, G. H., Jr. 01249  
 Archuleta, La Plata, and Montezuma Counties: Taff, J. A. 01112  
 Durango field, La Plata and Montezuma Counties: Schrader, F. C. 00991  
 Durango field, La Plata and Montezuma Counties: Shaler, M. K. 01002  
 Durango field, La Plata and Montezuma Counties: Zapp, A. D. 01348  
 Ignacio area, La Plata and Archuleta Counties: Barnes, Harley. 00065  
 La Plata and Archuleta Counties: Gardner, J. H. 00431  
 La Plata and Montezuma Counties: Barnes, Harley. 00066  
 La Plata quadrangle, La Plata and Montezuma Counties: Cross, Whitman. 00274  
 Mesa Verde area, Montezuma and La Plata Counties: Wanek, A. A. 01195  
 Mesa Verde area, Montezuma County: Wanek, A. A. 01194  
 Montezuma and La Plata Counties: Collier, A. J. 00244
- San Miguel County*  
 Dakota Sandstone: Cater, F. W. 01322  
 Dakota Sandstone: Williams, P. L. 01251
- Somerset field*  
 Anthracite-Crested Butte quadrangles, Gunnison County: Emmons, S. F. 00363  
 Chair Mountain quadrangle, Gunnison and Pitkin Counties: Godwin, L. H. 00445  
 Delta and Gunnison Counties: Johnson, V. H. 00562

**Colorado—Continued***Somerset field*

Delta and Gunnison Counties: Lee, W. T. 00638

Marble quadrangle, Gunnison and Pitkin Counties: Gaskill, D. L. 00436

Marcellina Mountain quadrangle, Gunnison County: Gaskill, D. L. 00435

Oh-be-joyful quadrangle, Gunnison County: Gaskill, D. L. 00437

*South Park field*

Park County: Washburne, C. W. 01205

*Spanish Peaks quadrangle*

Huerfano and Las Animas Counties: Hills, R. C. 00570

*Spheroidal coal*

Trinidad field: Johnson, R. B. 00556

*Starkville-Weston area*

Las Animas County: Wood, G. H., Jr. 01229

*Stonewall-Tercio area*

Las Animas County: Wood, G. H., Jr. 01230

*Temple Canyon area*

Moffat County: Horn, G. H. 00531

*Thornburg area, sections, coal-bearing rocks*

Moffat and Rio Blanco Counties: Dyni, J. R. 01355

*Thornburg oil and gas field*

Moffat and Rio Blanco Counties: Dyni, J. R. 01356

*Tongue Mesa field*

Cerro Summit quadrangle, Montrose County: Dickinson, R. G. 00338

Cerro Summit quadrangle, Montrose County: Dickinson, R. G. 00374

Montrose and Ouray Counties: Cross, Whitman. 00273

Ouray quadrangle, Ouray County: Cross, Whitman. 00272

*Trinidad field*

Casa Grande quadrangle, Las Animas County: Pillmore, C. L. 00898

Elmoro quadrangle, Las Animas County: Hills, R. C. 00523

Gulnare, Cuchara Pass, and Stonewall area: Wood, G. H., Jr. 01228

Huerfano and Las Animas Counties: Johnson, R. B. 00556

Huerfano and Las Animas Counties: Johnson, R. B. 00557

Las Animas County: Harbour, R. L. 00487

Las Animas County: Harbour, R. L. 00488

Las Animas County: Lee, W. T. 00686

Las Animas County: Richardson, G. B. 00952

Raton-Brilliant-Koehler quadrangles: Lee, W. T. 00640

Spanish Peaks quadrangle: Hills, R. C. 00570

Starkville-Weston area, Las Animas County: Wood, G. H., Jr. 01229

Stonewall-Tercio area, Las Animas County: Wood, G. H., Jr. 01230

Trinidad quadrangle: Johnson, R. B. 00558

**Colorado***Trinidad quadrangle*

Las Animas, Huerfano and adjoining counties: Johnson, R. B. 00558

*Trinidad-Aguilar area*

Las Animas and Huerfano Counties: Harbour, R. L. 00487

Las Animas and Huerfano Counties: Harbour, R. L. 00488

*Twentymile Park district, Yampa field*

Routt County: Campbell, M. R. 00196

*Walsenburg field*

Gulnare, Cuchara Pass, and Stonewall area: Wood, G. H., Jr. 01228

Huerfano County: Harbour, R. L. 00487

Huerfano County: Harbour, R. L. 00488

Huerfano County: Johnson, R. B. 00554

Huerfano County: Johnson, R. B. 00560

Huerfano County: Lee, W. T. 00686

Huerfano County: Richardson, G. B. 00952

Huerfano Park area, Huerfano and Custer Counties: Johnson, R. B. 00555

La Veta area, Huerfano County: Johnson, R. B. 00559

Spanish Peaks quadrangle: Hills, R. C. 00570

Trinidad quadrangle: Johnson, R. B. 00558

Walsenburg quadrangle, Huerfano County: Hills, R. C. 00524

*Walsenburg quadrangle*

Huerfano County: Hills, R. C. 00524

*Weld County*

Denver basin: Emmons, S. F. 00286

Denver basin: Martin, G. C. 00742

Greeley quadrangle, Fox Hills Sandstone, paleobotany: Knowlton, F. H. 00689

*Williams Fork Mountains, Yampa field*

Moffat County: Horn, G. H. 00534

*Yampa field*

Moffat County: Hancock, E. T. 00484

Routt and Moffat Counties: Bass, N. W. 00070

Routt County: Fenneman, N. M. 00397

Routt County: Fenneman, N. M. 00398

Routt County: Gale, H. S. 00425

Thornburg area, Moffat County, sections, coal-bearing rocks: Dyni, J. R. 01355

Thornburg oil and gas field, Moffat County: Dyni, J. R. 01356

Twentymile Park district, Routt County:

Campbell, M. R. 00196

Williams Fork Mountains, Moffat County: Horn, G. H. 00534

**Computer***Storage and retrieval*

Coal data: Kent, B. H. 00602

**Consumption [See also Production.]***Statistics*

1915: Leshner, C. E. 00659

1917: Leshner, C. E. 00667

1918: Leshner, C. E. 00693

**Eastern Interior basin***Coal fields*

Summary, 1900: Ashley, G. H. 00026



- Eastern Interior basin**  
*Minor elements in coal*  
 Geochemical and geographic distribution:  
 Zubovic, Peter. 01311
- Explosives**  
*Resulting gas*  
 Dust: Chamberlin, R. T. 00224  
 Dust: Rice, G. S. 00946  
*Used in mining*  
 General: Chamberlin, R. T. 00224  
 General: Munroe, C. E. 00785
- Fuel-testing plant**  
*Operations*  
 Tests, 1907-1908: Belden, A. W. 00084  
 Tests, 1904-1906: Breckenridge, L. P. 00120  
 Tests, 1907: Burrows, J. S. 00140  
 Tests, 1905: Holmes, J. A. 00528  
 Tests, 1906-1907: Holmes, J. A. 00529  
 Tests, 1905-1906: Lord, N. W. 00695  
 Tests, 1907: Mills, J. E. 00770  
 Tests, 1905-1907: Moldenke, Richard. 00776  
 Tests, 1904: Parker, E. W. 00862  
 Tests, 1904: Parker, E. W. 00863  
 Tests, 1907-1908: Wright, C. L. 01258
- Geochemistry**  
*Beryllium-bearing coal*  
 United States: Stadnichenko, Taisia. 01085  
*Germanium-bearing coal*  
 Analysis of, rapid methods: Almond, Hy. 00095  
 Analysis of, field methods: U.S. Geological Survey. 01167  
 United States, general: Stadnichenko, Taisia. 01084  
*Minor elements in coal*  
 Appalachian basin: Zubovic, Peter. 01312  
 Association with organic and inorganic phases: Zubovic, Peter. 01307  
 Chemical basis of associations: Zubovic, Peter. 01310  
 Comparative abundance: Zubovic, Peter. 01308  
 Eastern Interior basin: Zubovic, Peter. 01311  
 Northern Great Plains province: Zubovic, Peter. 01309  
 Relation to source rock: Zubovic, Peter. 01306  
 Texas, Colorado, North Dakota, and South Dakota: Deul, Maurice. 01354  
 Western Interior basin: Zubovic, Peter. 01305
- Georgia**  
*Chattooga County*  
 Ringgold quadrangle: Hayes, C. W. 00497  
*Coal fields*  
 Summary, 1900: Hayes, C. W. 00506  
*Dade County*  
 Nomenclature, Pennsylvanian rocks:  
 Culbertson, W. C. 00278  
 Ringgold quadrangle: Hayes, C. W. 00497  
 Sand and Lookout Mountains: Johnson, V. H. 00561  
 Stevenson quadrangle: Hayes, C. W. 00501  
*Northwestern part*  
 Nomenclature, Pennsylvanian rocks:  
 Culbertson, W. C. 00278
- Georgia**  
*Pennsylvanian rocks*  
 Correlation with Alabama and Tennessee:  
 Culbertson, W. C. 00278  
*Plateau field*  
 Stevenson quadrangle, Dade County: Hayes, C. W. 00501  
*Ringgold quadrangle*  
 Chattooga, Dade, and Walker Counties:  
 Hayes, C. W. 00497  
*Sand and Lookout Mountains*  
 Dade and Walker Counties: Johnson, V. H. 00561  
*Walker County*  
 Nomenclature, Pennsylvanian rocks:  
 Culbertson, W. C. 00278  
 Ringgold quadrangle: Hayes, C. W. 00497  
 Sand and Lookout Mountains: Johnson, V. H. 00561
- Germanium-bearing coal**  
*Analysis of*  
 Field methods: U.S. Geological Survey. 01167  
 Rapid methods: Almond, Hy. 00095  
*United States*  
 General: Stadnichenko, Taisia. 01084
- Idaho**  
*Ada County*  
 Boise quadrangle: Lindgren, Waldemar. 00673  
 Nampa quadrangle: Lindgren, Waldemar. 00674  
*Auburn area*  
 Caribou County, Freedom quadrangle:  
 Mansfield, G. R. 00721  
*Boise County*  
 Boise quadrangle: Lindgren, Waldemar. 00673  
 Horseshoe Bend and Jerusalem Valley fields:  
 Bowen, C. F. 00109  
*Boise quadrangle*  
 Boise and Ada Counties: Lindgren, Waldemar. 00673  
*Bonneville County*  
 Driggs quadrangle: Pampeyan, E. H. 00812  
 Fall Creek area, uranium-bearing coal: Vine, J. D. 01177  
 Fall Creek area, uranium-bearing coal: Vine, J. D. 01180  
 Willow Creek-Caribou district and Pine Creek area: Mansfield, G. R. 00720  
*Canyon County*  
 Nampa quadrangle: Lindgren, Waldemar. 00674  
*Caribou County*  
 Freedom quadrangle, Auburn area:  
 Mansfield, G. R. 00721  
*Cassia County*  
 Goose Creek district: Bowen, C. F. 00110  
 Goose Creek district, uranium-bearing coal:  
 Mapel, W. J. 00723  
*Clark County*  
 Continental Divide area: Mansfield, G. R. 00720  
*Clearwater County*  
 Orofino area: Lupton, C. T. 00700

**Idaho—Continued***Coal fields*

Summary, 1900: Storrs, L. S. 01109

*Continental Divide area*

Clark and Fremont Counties: Mansfield, G. R. 00720

*Driggs quadrangle*

Bonneville and Teton Counties: Pampeyan, E. H. 00812

*Fall Creek area*

Bonneville County, uranium-bearing coal:  
Vine, J. D. 01177

Bonneville County, uranium-bearing coal:  
Vine, J. D. 01180

*Fort Hall Indian Reservation*

Power County: Mansfield, G. R. 00719

*Freedom quadrangle*

Caribou County, Auburn area: Mansfield, G. R. 00721

*Fremont County*

Continental Divide area: Mansfield, G. R. 00720

*Garns Mountain quadrangle*

Teton County: Staatz, M. H. 01083

*Gem County*

Nampa quadrangle: Lindgren, Waldemar. 00674

*Goose Creek district*

Cassia County: Bowen, C. F. 00110

Cassia County: Mapel, W. J. 00723

*Horseshoe Bend and Jerusalem Valley fields*

Boise County: Bowen, C. F. 00109

Boise County: Lindgren, Waldemar. 00673

*Horseshoe Creek district*

Driggs quadrangle, Teton County: Pampeyan, E. H. 00812

Teton County: Mansfield, G. R. 00720

Teton County: Schultz, A. R. 01357

Teton County: Woodruff, E. G. 01245

Teton County, Garns Mountain quadrangle:  
Staatz, M. H. 01083

*Idaho County*

Orofino area: Lupton, C. T. 00700

*Jerusalem Valley field*

Boise County: Bowen, C. F. 00109

Boise County: Lindgren, Waldemar. 00673

*Lewis County*

Orofino area: Lupton, C. T. 00700

*Nampa quadrangle*

Ada, Canyon, Gem, Owyhee, and Payette  
Counties: Lindgren, Waldemar. 00674

*Nez Perce County*

Orofino area: Russell, I. C. 00984

*Orofino area*

Clearwater, Lewis, and Idaho Counties:  
Lupton, C. T. 00700

Nez Perce County: Russell, I. C. 00984

*Owyhee County*

Nampa quadrangle: Lindgren, Waldemar.  
00674

Reynolds Creek area: Duncan, D. C. 00357

Reynolds Creek area: Lindgren, Waldemar.  
00675

Silver City quadrangle: Lindgren, Waldemar.  
00675

**Idaho***Owyhee County*

Succor Creek area: Lindgren, Waldemar.  
00675

*Payette County*

Nampa quadrangle: Lindgren, Waldemar.  
00674

*Pine Creek area*

Bonneville County: Schultz, A. R. 01357

Driggs quadrangle, Bonneville and Teton  
Counties: Pampeyan, E. H. 00812

Teton and Bonneville Counties: Mansfield, G.  
R. 00720

Teton and Bonneville Counties: Schultz, A. R.  
01357

*Power County*

Fort Hall Indian Reservation: Mansfield, G.  
R. 00719

*Reynolds Creek area*

Owyhee County: Duncan, D. C. 00357

Owyhee County: Lindgren, Waldemar. 00675

*Silver City quadrangle*

Owyhee County: Lindgren, Waldemar. 00675

*Succor Creek area*

Owyhee County: Lindgren, Waldemar. 00675

*Teton County*

Driggs quadrangle: Pampeyan, E. H. 00812

Garns Mountain quadrangle: Staatz, M. H.  
01083

Horseshoe Creek district: Woodruff, E. G.  
01245

Horseshoe Creek district and Pine Creek area:  
Mansfield, G. R. 00720

Horseshoe Creek district and Pine Creek area:  
Schultz, A. R. 01357

*Uranium-bearing coal*

Cassia County, Goose Creek district: Mapel,  
W. J. 00723

Fall Creek area, Bonneville County: Vine, J.  
D. 01177

Fall Creek area, Bonneville County: Vine, J.  
D. 01180

*Willow Creek—Caribou district*

Bonneville County: Mansfield, G. R. 00720

Bonneville County: Schultz, A. R. 01357

**Illinois***Belleville quadrangle*

Madison and Saint Clair Counties: Udden, J.  
A. 01164

*Bond County*

Breese quadrangle: Udden, J. A. 01164

Gillespie quadrangle: Lee, W. T. 00642

*Breese quadrangle*

Bond, Clinton, Madison, and St. Clair  
Counties: Udden, J. A. 01164

*Brussels quadrangle*

Calhoun and Jersey Counties: Rubey, W. W.  
00980

*Calhoun County*

Hardin and Brussels quadrangles: Rubey, W.  
W. 00980

*Carlyle quadrangle*

Clinton County: Shaw, E. W. 01067

## Illinois

- Centralia quadrangle*  
Clinton and Marion Counties: Shaw, E. W. 01067
- Clinton County*  
Breese quadrangle: Udden, J. A. 01164  
Carlyle quadrangle: Shaw, E. W. 01067  
Okawville quadrangle: Shaw, E. W. 01066
- Coal fields*  
Summary, 1900: Ashley, G. H. 00026
- Colchester quadrangle*  
McDonough and Schuyler Counties: Hinds, Henry. 00525
- Danville quadrangle*  
Vermillion County: Campbell, M. R. 00201
- Edwards County*  
Patoka quadrangle: Fuller, M. L. 00424
- Edwards district*  
Patoka quadrangle: Fuller, M. L. 00424
- Franklin County*  
Herrin quadrangle: Shaw, E. W. 01008
- Gallatin County*  
Stratigraphy, structure, coal-bearing rocks: DeWolf, F. W. 00337
- Geologic work on coal*  
Summary, 1900-1902: Fuller, M. L. 00423
- Gillespie quadrangle*  
Macoupin County: Lee, W. T. 00642
- Greene County*  
Hardin quadrangle: Rubey, W. W. 00980
- Hamilton County*  
Stratigraphy, structure, coal-bearing rocks: DeWolf, F. W. 00337
- Hardin quadrangle*  
Calhoun, Jersey, and Greene Counties: Rubey, W. W. 00980
- Herrin quadrangle*  
Franklin, Jackson, Perry, and Williamson Counties: Shaw, E. W. 01008
- Jackson County*  
Murphysboro-Herrin quadrangles: Shaw, E. W. 01008
- Jersey County*  
Hardin and Brussels quadrangles: Rubey, W. W. 00980
- Logan County*  
Springfield quadrangle: Shaw, E. W. 01009
- Macomb quadrangle*  
McDonough and Schuyler Counties: Hinds, Henry. 00525
- Macoupin County*  
Gillespie-Mount Olive quadrangles: Lee, W. T. 00642
- Madison County*  
Belleville-Breese quadrangles: Udden, J. A. 01164
- Marion County*  
Carlyle-Centralia quadrangles: Shaw, E. W. 01067
- McDonough County*  
Colchester-Macomb quadrangles: Hinds, Henry. 00525
- Menard County*  
Tallula-Springfield quadrangles: Shaw, E. W. 01009

## Illinois

- Monroe County*  
New Athens quadrangle: Shaw, E. W. 01066
- Montgomery County*  
Mount Olive quadrangle: Lee, W. T. 00642
- Morgan County*  
Tallula quadrangle: Shaw, E. W. 01009
- Mount Olive quadrangle*  
Bond, Macoupin, and Montgomery Counties: Lee, W. T. 00642
- Murphysboro quadrangle*  
Jackson and Perry Counties: Shaw, E. W. 01008
- New Athens quadrangle*  
Monroe and Saint Clair Counties: Shaw, E. W. 01066
- Okawville quadrangle*  
Clinton and Washington Counties: Shaw, E. W. 01066
- Patoka quadrangle*  
Edwards and Wabash Counties: Fuller, M. L. 00424
- Peoria County*  
Peoria quadrangle: Udden, J. A. 01163
- Peoria quadrangle*  
Peoria and Tazewell Counties: Udden, J. A. 01163
- Perry County*  
Murphysboro-Herrin quadrangles: Shaw, E. W. 01008
- Saint Clair County*  
Belleville-Breese quadrangles: Udden, J. A. 01164  
New Athens quadrangle: Shaw, E. W. 01066
- Saline County*  
Stratigraphy, structure, coal-bearing rocks: DeWolf, F. W. 00337
- Saline-Gallatin field*  
Saline, Gallatin, White, and Hamilton Counties: DeWolf, F. W. 00337
- Sangamon County*  
Tallula-Springfield quadrangles: Shaw, E. W. 01009
- Schuyler County*  
Colchester-Macomb quadrangles: Hinds, Henry. 00525
- Springfield quadrangle*  
Logan, Menard, and Sangamon Counties: Shaw, E. W. 01009
- Tallula quadrangle*  
Menard, Morgan, and Sangamon Counties: Shaw, E. W. 01009
- Tazewell County*  
Peoria quadrangle: Udden, J. A. 01163
- Vermillion County*  
Danville quadrangle: Campbell, M. R. 00201
- Wabash County*  
Patoka quadrangle: Fuller, M. L. 00424
- Washington County*  
Okawville quadrangle: Shaw, E. W. 01066
- White County*  
Stratigraphy, structure, coal-bearing rocks: DeWolf, F. W. 00337
- Williamson County*  
Herrin quadrangle: Shaw, E. W. 01008

**Indiana***Clay County*

Coal City quadrangle: Kottlowski, F. E. 00627

Jasonville quadrangle: Wier, C. E. 01208

*Coal City quadrangle*

Greene, Clay, and Owen Counties:  
Kottlowski, F. E. 00627

*Coal fields*

Summary, 1900: Ashley, G. H. 00026

Summary, 1953: Spencer, F. D. 01073

*Danville quadrangle*

Vermillion and Warren Counties: Campbell,  
M. R. 00201

*Dennison quadrangle*

Vigo County: Friedman, S. A. 00420

*Ditney quadrangle*

Dubois, Gibson, Pike, Spencer, Vanderburgh,  
and Warrick Counties: Fuller, M. L. 00422

*Dubois County*

Dugger quadrangle, Sullivan County: Kottlowski,  
F. E. 00626

Ditney quadrangle: Fuller, M. L. 00422

*Geologic work on coal*

Summary, 1900-1902: Fuller, M. L. 00423

*Gibson County*

Ditney quadrangle: Fuller, M. L. 00422

Patoka quadrangle: Fuller, M. L. 00424

*Greene County*

Coal City quadrangle: Kottlowski, F. E. 00627

Jasonville quadrangle: Wier, C. E. 01208

Linton quadrangle: Wier, C. E. 01209

Switz City quadrangle: Kottlowski, F. E. 00628

*Hymera quadrangle*

Sullivan County: Wier, C. E. 01210

*Jasonville quadrangle*

Clay, Greene, and Sullivan Counties: Wier, C. E. 01208

*Linton quadrangle*

Greene and Sullivan Counties: Wier, C. E. 01209

*Owen County*

Coal City quadrangle: Kottlowski, F. E. 00627

*Patoka quadrangle*

Gibson, Posey, and Vanderburgh Counties:  
Fuller, M. L. 00424

*Pike County*

Ditney quadrangle: Fuller, M. L. 00422

*Posey County*

Patoka quadrangle: Fuller, M. L. 00424

*Resources*

Summary: Spencer, F. D. 01073

*Seelyville quadrangle*

Vigo County: Hutchison, H. C. 00545

*Shelburn quadrangle*

Sullivan County: Waddell, Courtney. 01181

*Spencer County*

Ditney quadrangle: Fuller, M. L. 00422

Tell City quadrangle: Spencer, F. D. 01078

*Stratigraphy, coal-bearing rocks*

General: Ashley, G. H. 00030

*Sullivan County*

Dugger quadrangle: Kottlowski, F. E. 00626

Hymera quadrangle: Wier, C. E. 01210

Jasonville quadrangle: Wier, C. E. 01208

**Indiana***Sullivan County*

Linton quadrangle: Wier, C. E. 01209

Shelburn quadrangle: Waddell, Courtney. 01181

*Switz City quadrangle*

Greene County: Kottlowski, F. E. 00628

*Tell City quadrangle*

Spencer County: Spencer, F. D. 01078

*Terre Haute quadrangle*

Vigo County: Friedman, S. A. 00420

*Vanderburgh County*

Ditney quadrangle: Fuller, M. L. 00422

Patoka quadrangle: Fuller, M. L. 00424

*Vermillion County*

Danville quadrangle: Campbell, M. R. 00201

*Vigo County*

Seelyville quadrangle: Hutchison, H. C. 00545

Terre Haute and Dennison quadrangles:  
Friedman, S. A. 00420

*Warren County*

Danville quadrangle: Campbell, M. R. 00201

*Warrick County*

Ditney quadrangle: Fuller, M. L. 00422

**Iowa***Coal fields*

Summary, 1900: Bain, H. F. 00048

Summary, 1892: Keyes, C. R. 00605

*General*

Underground water resources: Norton, W. H. 00788

*Water resources*

General: Norton, W. H. 00788

**Kansas***Allen County*

Iola quadrangle: Adams, G. I., 00003

*Bourbon County*

Iola quadrangle: Adams, G. I., 00003

*Cherokee County*

Joplin district quadrangle: Smith, W. S. 01046

Stratigraphy, structure, coal-bearing rocks:  
Pierce, W. G. 00897

*Coal fields*

Summary, 1900: Bain, H. F. 00048

*Crawford County*

Iola quadrangle: Adams, G. I., 00003

Stratigraphy, structure, coal-bearing rocks:  
Pierce, W. G. 00897

*Independence quadrangle*

Montgomery and Wilson Counties: Schrader,  
F. C. 01013

Montgomery and Wilson Counties: Schrader,  
F. C. 01014

*Iola quadrangle*

Allen, Bourbon, Crawford, and Neosho  
Counties: Adams, G. I., 00003

*Joplin district quadrangle*

Cherokee County: Smith, W. S. 01046

*Labette County*

Stratigraphy, structure, coal-bearing rocks:  
Pierce, W. G. 00897

*Leavenworth County*

Leavenworth quadrangle: Hinds, Henry. 00569

**Kansas***Leavenworth quadrangle*

Leavenworth County: Hinds, Henry. 00569

*Montgomery County*Independence quadrangle: Schrader, F. C.  
01013Independence quadrangle: Schrader, F. C.  
01014*Neosho County*

Iola quadrangle: Adams, G. I., 00003

*Shawnee County*

Eastern part: Johnson, W. D., Jr. 00563

Western part: Johnson, W. D., Jr. 00580

*Southeastern part*

Cherokee, Crawford, and Labette Counties:

Pierce, W. G. 00897

*Wilson County*Independence quadrangle: Schrader, F. C.  
01013Independence quadrangle: Schrader, F. C.  
01014**Kansas, southeastern part***Upper Carboniferous rocks*Stratigraphy and paleontology: Adams, G. I.  
00002**Kentucky***Allegre quadrangle*

Todd County: Klemic, Harry. 00609

*Ano quadrangle*Pulaski and Laurel Counties: Stager, H. K.  
01087*Argillite quadrangle*Greenup and Boyd Counties: Sheppard, R. A.  
01018*Barren County*Mammoth Cave quadrangle: Haynes, D. D.  
00509*Barthell quadrangle*

McCreary County: Pomerene, J. B. 00907

*Beaver Creek basin*

McCreary County: Collier, C. R. 00248

McCreary County: Collier, C. R. 01323

McCreary County: Musser, J. J. 00787

*Bee Spring quadrangle*

Edmonson and Grayson Counties:

Gildersleeve, Benjamin. 00441

*Bell County*

Cumberland Gap field: Ashley, G. H. 00027

Cumberland Gap field: Ashley, G. H. 00037

Ewing quadrangle: Englund, K. J. 00388

Ewing quadrangle: Englund, K. J. 00389

Middlesboro North quadrangle: Englund, K.  
J. 00387Middlesboro South quadrangle: Englund, K.  
J. 00368

Varilla quadrangle: Englund, K. J. 00386

*Bernstadt quadrangle*Laurel and Rockcastle Counties: Hatch, N.  
L., Jr. 00493*Big Stone Gap field*Harlan and Letcher Counties: Campbell, M.  
R. 00177*Billows quadrangle*Laurel, Pulaski, and Rockcastle Counties:  
Hatch, N. L., Jr. 00494**Kentucky***Blackford quadrangle*

Crittenden, Union, and Webster Counties:

Amos, D. H. 01313

*Blackwater quadrangle*Clay, Knox, and Laurel Counties: Stager, H.  
K. 01090*Boltsfork quadrangle*

Boyd County: Spencer, F. D. 01077

*Bowling Green North quadrangle*

Warren County: Shawe, F. R. 01015

*Boyd County*

Argillite quadrangle: Sheppard, R. A. 01018

Boltsfork and Burnaugh quadrangles:

Spencer, F. D. 01077

Fallsburg and Prichard quadrangles: Sharps,  
J. A. 01006

Kenova quadrangle: Phalen, W. C. 00883

Kenova quadrangle: Phalen, W. C. 00886

Kenova quadrangle: Phalen, W. C. 00888

Rush quadrangle: Carlson, J. E. 00220

*Breathitt County*

Buckhorn quadrangle: Stafford, P. T. 01091

Campton quadrangle: Briggs, R. P. 00121

Haddix quadrangle: Mixon, R. B. 00772

Jackson quadrangle: Prichard, G. E. 00910

Krypton quadrangle: Mixon, R. B. 00771

Landsaw quadrangle: Hansen, W. R. 00486.

Lee City quadrangle: Post, E. V. 01058

Quicksand quadrangle: Donnell, J. R. 00353

Seitz quadrangle: Bergin, M. J. 00089

Seitz quadrangle: Bergin, M. J. 00098

Tiptop quadrangle: Welch, S. W. 01285

Tiptop quadrangle: Welch, S. W. 01286

Troublesome quadrangle: Williamson, A. D.  
01252*Breckinridge County*Cloverport quadrangle: Bergendahl, M. H.  
00087Fordsville quadrangle: Bergendahl, M. H.  
00088*Bristow quadrangle*

Edmonson and Warren Counties:

Gildersleeve, Benjamin. 00438

*Broad Bottom quadrangle*

Floyd and Pike Counties: Alvord, D. C. 00007

*Brownsville quadrangle*Edmonson County: Gildersleeve, Benjamin.  
00439

Edmonson County, stratigraphy, base of

Pennsylvanian System: Shawe, F. R. 01063

*Bruin quadrangle*Elliott and Carter Counties: Englund, K. J.  
00384*Brushart quadrangle*

Greenup County: Denny, C. S. 00332

*Buckhorn quadrangle*

Breathitt, Leslie, and Perry Counties:

Stafford, P. T. 01091

*Burnaugh quadrangle*

Boyd County: Spencer, F. D. 01077

*Butler County*

Dunmor quadrangle: Miller, T. P. 00769

Quality quadrangle: Gildersleeve, Benjamin.  
00440

**Kentucky—Continued***Butler County*

- Reedville quadrangle: Shawe, F. R. 01016  
 Reedville quadrangle, stratigraphy, base of  
 Pennsylvanian System: Shawe, F. R. 01063  
 Riverside quadrangle: Shawe, F. R. 01017

*Caldwell County*

- Dalton quadrangle: Palmer, J. E. 00808  
 Dawson Springs quadrangle: Kehn, T. M.  
 00592  
 Olney quadrangle: Trace, R. D. 01137

*Campton quadrangle*

- Wolfe, Lee, and Breathitt Counties: Briggs, R.  
 P. 00121

*Cane Branch area*

- McCreary County: Lyons, E. J. 00701

*Cannel City quadrangle*

- Morgan, Wolfe, and Magoffin Counties:  
 Englund, K. J. 00364

*Cannel coal*

- Johnson County, near Paintsville: Thiessen,  
 Reinhardt. 01118

*Carrie quadrangle*

- Knott County: Seiders, V. M. 01001

*Carter County*

- Bruin quadrangle: Englund, K. J. 00384  
 Grayson quadrangle: Whittington, C. L.  
 01207

- Haldeman and Wrigley quadrangles:  
 Patterson, S. H. 00870

- Haldeman quadrangle: Patterson, S. H. 00869

- Kenova quadrangle: Phalen, W. C. 00883

- Kenova quadrangle: Phalen, W. C. 00886

- Kenova quadrangle: Phalen, W. C. 00888

- Oldtown quadrangle: Whittington, C. L.  
 01296

- Rush quadrangle: Carlson, J. E. 00220

- Tygarts Valley quadrangle: Sheppard, R. A.  
 01064

*Central City West quadrangle*

- Muhlenberg and Ohio Counties: Palmer, J. E.  
 01332

*Christian County*

- Dawson Springs quadrangle: Kehn, T. M.  
 00592

- Graham quadrangle: Kehn, T. M. 00593

- Nortonville quadrangle: Palmer, J. E. 00810

- Saint Charles and Nortonville quadrangles:  
 Palmer, J. E. 00811

- Saint Charles quadrangle: Palmer, J. E. 00809

*Clay County*

- Blackwater quadrangle: Stager, H. K. 01090

- Hima quadrangle: Reeves, R. G. 00930

- Hyden quadrangle: Johnston, J. E. 00582

- Manchester quadrangle: Finnell, T. L. 00404

- Portersburg quadrangle: Pomerene, J. B.  
 00908

- Tyner quadrangle: Snyder, G. L. 01049

*Cloverport quadrangle*

- Breckinridge and Hancock Counties:  
 Bergendahl, M. H. 00087

*Coiltown quadrangle*

- Hopkins' County: Franklin, G. J. 00418

**Kentucky***Corbin quadrangle*

- Knox, Laurel, and Whitley Counties: Puffett,  
 W. P. 00916

*Cornettsville quadrangle*

- Perry, Knott, Letcher, Harlan, and Leslie  
 Counties: Johnston, J. E. 00583

*Crittenden County*

- Blackford quadrangle: Amos, D. H. 01313

- Repton quadrangle: Seeland, D. A. 00999

- Salem quadrangle: Trace, R. D. 01136

*Cub Run quadrangle*

- Hart County: Sandberg, C. A. 00985

*Cumberland Falls quadrangle*

- McCreary and Whitley Counties: Smith, J. H.  
 01040

*Cumberland Gap field*

- Bell and Harlan Counties: Ashley, G. H.  
 00027

- Bell and Harlan Counties: Ashley, G. H.  
 00037

*Dalton quadrangle*

- Caldwell and Webster Counties: Palmer, J. E.  
 00808

*David quadrangle*

- Floyd and Magoffin Counties: Outerbridge,  
 W. F. 00802

*Daviess County*

- Maceo quadrangle: Calvert, R. H. 00158  
 Owensboro East quadrangle: Johnson, W. D.,  
 Jr. 00577

- Pellville quadrangle: Spencer, F. D. 01075

- Philpot quadrangle: Calvert, R. H. 00156

- Pleasant Ridge quadrangle: Goudarzi, G. H.  
 00452

- Rockport and Lewisport quadrangles:

- Spencer, F. D. 01076

- Sutherland quadrangle: Johnson, W. D., Jr.  
 00578

- Sutherland quadrangle: Smith, A. E. 01024

- Whitesville quadrangle: Calvert, R. H. 00157

*Dawson Springs No. 6 bed, western field*

- Correlation: Kehn, T. M. 00595

*Dawson Springs quadrangle*

- Caldwell, Christian, and Hopkins Counties:  
 Kehn, T. M. 00592

*Delbarton quadrangle*

- Pike County: Alvord, D. C. 01351

*Dorton quadrangle*

- Pike County: Barr, J. L. 00068

*Dundee quadrangle*

- Ohio County: Goudarzi, G. H. 00451

*Dunmor quadrangle*

- Butler, Logan, and Muhlenberg Counties:  
 Miller, T. P. 00769

*Eastern field*

- Cumberland Mountains, Lee Formation,  
 stratigraphy: Englund, K. J. 00367

- Drill holes, cores, logs: Alvord, D. C. 01314

- Lee Formation, stratigraphy: Englund, K. J.  
 00367

- Paleobotany, Pennsylvanian rocks: Kosanke,  
 R. M. 00620

- Paleobotany, Pennsylvanian rocks: Kosanke,  
 R. M. 00621

- Paleobotany, Pennsylvanian rocks: Kosanke,  
 R. M. 00622

**Kentucky***Eastern field*

- Paleobotany, Pennsylvanian rocks: Kosanke, R. M. 00623  
 Paleobotany, Pennsylvanian rocks: Kosanke, R. M. 00624  
 Paleobotany, Pennsylvanian rocks: Kosanke, R. M. 00625  
 Public and industrial water supplies: Baker, J. A. 00047  
 Resources: Huddle, J. W. 00539  
 Summary, 1900: Hayes, C. W. 00506

*Edmonson County*

- Bee Spring quadrangle: Gildersleeve, Benjamin. 00441  
 Bristow quadrangle: Gildersleeve, Benjamin. 00438  
 Brownsville quadrangle: Gildersleeve, Benjamin. 00439  
 Brownsville quadrangle, stratigraphy, base of Pennsylvanian System: Shawe, F. R. 01063  
 Mammoth Cave quadrangle: Haynes, D. D. 00509  
 Reedyville quadrangle: Shawe, F. R. 01016  
 Reedyville quadrangle, stratigraphy, base of Pennsylvanian System: Shawe, F. R. 01063  
 Rhoda quadrangle: Klemic, Harry. 00608

*Elkhorn field*

- Letcher and Pike Counties: Stone, R. W. 01103

*Elliott County*

- Bruin quadrangle: Englund, K. J. 00384  
 Haldeman and Wrigley quadrangles: Patterson, S. H. 00870  
 Haldeman quadrangle: Patterson, S. H. 00869  
 Isonville quadrangle: Englund, K. J. 00382  
 Kenova quadrangle: Phalen, W. C. 00883  
 Kenova quadrangle: Phalen, W. C. 00886  
 Kenova quadrangle: Phalen, W. C. 00888  
 Lenox quadrangle: Johnston, J. E. 00581  
 Sandy Hook quadrangle: Englund, K. J. 00383  
 Wrigley quadrangle: Hosterman, J. W. 00537

*Equality quadrangle*

- Ohio, McLean, and Muhlenberg Counties: Goudarzi, G. H. 00450

*Estill County*

- Richmond quadrangle: Campbell, M. R. 00165

*Estillville quadrangle*

- Harlan and Letcher Counties: Campbell, M. R. 00166

*Ewing quadrangle*

- Harlan and Bell Counties: Englund, K. J. 00388  
 Harlan and Bell Counties: Englund, K. J. 00389

*Ezel quadrangle*

- Morgan and Menifee Counties: Pipiringos, G. N. 01060

**Kentucky***Fallsburg quadrangle*

- Boyd and Lawrence Counties: Sharps, J. A. 01006

*Floyd County*

- Broad Bottom quadrangle: Alvord, D. C. 00007  
 David quadrangle: Outerbridge, W. F. 00802  
 Drill holes, cores, logs: Alvord, D. C. 01314  
 Harold quadrangle: Rice, C. L. 00940  
 Ivyton quadrangle: Rice, C. L. 00945  
 Lancer quadrangle: Rice, C. L. 00939  
 Martin quadrangle: Rice, C. L. 00941  
 McDowell quadrangle: Rice, C. L. 00944  
 Paintsville quadrangle: Outerbridge, W. F. 00800  
 Pikeville quadrangle: Alvord, D. C. 00008  
 Prestonsburg quadrangle: Price, W. E., Jr. 00909  
 Prestonsburg quadrangle: Rice, C. L. 00942  
 Thomas quadrangle: Rice, C. L. 00938

*Fordsville quadrangle*

- Breckinridge, Hancock, and Ohio Counties: Bergendahl, M. H. 00088

*Friendship quadrangle*

- Lewis and Greenup Counties: Erickson, R. L. 00392

*Garrard County*

- Wildie quadrangle: Gualtieri, J. L. 00461

*Golconda quadrangle*

- Livingston County: Amos, D. H. 00010

*Graham quadrangle*

- Christian, Hopkins, and Muhlenberg Counties: Kehn, T. M. 00593

*Gray County*

- Olaton quadrangle: Johnson, W. D., Jr. 00576

*Grayson County*

- Bee Spring quadrangle: Gildersleeve, Benjamin. 00441

*Grayson quadrangle*

- Carter County: Whittington, C. L. 01207

*Greenup County*

- Argillite quadrangle: Sheppard, R. A. 01018  
 Brushart quadrangle: Denny, C. S. 00332  
 Friendship quadrangle: Erickson, R. L. 00392  
 Greenup quadrangle: Dobrovolny, Ernest. 00371  
 Ironton quadrangle: Dobrovolny, Ernest. 00371  
 Kenova quadrangle: Phalen, W. C. 00883  
 Kenova quadrangle: Phalen, W. C. 00886  
 Kenova quadrangle: Phalen, W. C. 00888  
 Load quadrangle: Sharps, J. A. 01005  
 Oldtown quadrangle: Whittington, C. L. 01296  
 Portsmouth quadrangle: Sheppard, R. A. 01065  
 Tygarts Valley quadrangle: Sheppard, R. A. 01064

*Greenup quadrangle*

- Greenup County: Dobrovolny, Ernest. 00371

*Haddix quadrangle*

- Breathitt County: Mixon, R. B. 00772

**Kentucky—Continued***Haldeman quadrangle*

- Rowan, Carter, and Elliott Counties:  
Patterson, S. H. 00869  
Rowan, Carter, and Elliott Counties:  
Patterson, S. H. 00870

*Hancock County*

- Cloverport quadrangle: Bergendahl, M. H. 00087  
Fordsville quadrangle: Bergendahl, M. H. 00088  
Lewisport quadrangle: Spencer, F. D. 01076  
Maceo quadrangle: Calvert, R. H. 00158  
Pellville quadrangle: Spencer, F. D. 01075  
Tell City quadrangle: Spencer, F. D. 01078  
Whitesville quadrangle: Calvert, R. H. 00157

*Hanson quadrangle*

- Hopkins and Webster Counties: Franklin, G. J. 00417

*Harlan County*

- Big Stone Gap field: Campbell, M. R. 00177  
Cornettsville quadrangle: Johnston, J. E. 00583  
Cumberland Gap field: Ashley, G. H. 00027  
Cumberland Gap field: Ashley, G. H. 00037  
Estillville quadrangle: Campbell, M. R. 00166  
Ewing quadrangle: Englund, K. J. 00388  
Ewing quadrangle: Englund, K. J. 00389  
Keokee quadrangle: Miller, R. L. 01331  
Nolansburg quadrangle: Csejtey, Bela. 01324

*Harold quadrangle*

- Floyd County: Rice, C. L. 00940

*Hart County*

- Cub Run quadrangle: Sandberg, C. A. 00985  
Mammoth Cave quadrangle: Haynes, D. D. 00509

*Hartford quadrangle*

- Ohio County: Goudarzi, G. H. 00449

*Hazard No. 7 coal, plant microfossils*

- Perry County: Kosanke, R. M. 00621

*Hazard North quadrangle*

- Perry County: Seiders, V. M. 01000

*Hazard South quadrangle*

- Leslie and Perry Counties: Puffett, W. P. 00917

*Hazel Green quadrangle*

- Morgan and Wolfe Counties: Cashion, W. B. 00222

*Helton Branch area*

- McCreary County: Lyons, E. J. 00701

*Hima quadrangle*

- Clay and Knox Counties: Reeves, R. G. 00930

*Hollyhill quadrangle*

- McCreary and Whitley Counties: Loney, R. A. 00684

*Hopkins County*

- Coiltown quadrangle: Franklin, G. J. 00418  
Dawson Springs quadrangle: Kehn, T. M. 00592  
Graham quadrangle: Kehn, T. M. 00593  
Hanson quadrangle: Franklin, G. J. 00417  
Madisonville East quadrangle: Kehn, T. M. 00588  
Madisonville West quadrangle: Kehn, T. M. 00589

**Kentucky***Hopkins County*

- Nebo quadrangle: Franklin, G. J. 00419  
Nortonville quadrangle: Palmer, J. E. 0081  
Olney quadrangle: Trace, R. D. 01137  
Saint Charles and Nortonville quadrangles  
Palmer, J. E. 00811  
Saint Charles quadrangle: Palmer, J. E. 00805  
Slaughters quadrangle: Kehn, T. M. 00590

*Hurley quadrangle*

- Pike County: Outerbridge, W. F. 00893

*Hyden East quadrangle*

- Leslie and Perry Counties: Prostka, H. J. 00912

*Hyden quadrangle*

- Leslie, Clay, and Perry Counties: Johnston, J. E. 00582

*Inez quadrangle*

- Martin County: Outerbridge, W. F. 00798

*Ironton quadrangle*

- Greenup County: Dobrovolsky, Ernest. 00371

*Isonville quadrangle*

- Elliott County: Englund, K. J. 00382

*Ivyton quadrangle*

- Floyd, Johnson, and Magoffin Counties:  
Rice, C. L. 00945

*Jackson County*

- Johnetta quadrangle: Gualtieri, J. L. 00462  
London quadrangle: Campbell, M. R. 00167  
Parrot quadrangle: Crowder, D. F. 00275  
Portersburg quadrangle: Pomerene, J. B. 00908

- Richmond quadrangle: Campbell, M. R. 00165

- Tyner quadrangle: Snyder, G. L. 01049

*Jackson quadrangle*

- Breathitt County: Prichard, G. E. 00910

*Jamboree quadrangle*

- Pike County: Outerbridge, W. F. 00892

*Jellico West quadrangle*

- Whitley and McCreary Counties: Englund, K. J. 00380  
Whitley and McCreary Counties: Englund, K. J. 01326

*Johnetta quadrangle*

- Rockcastle and Jackson Counties: Gualtieri, J. L. 00462

*Johnson County*

- Ivyton quadrangle: Rice, C. L. 00945  
Lancer quadrangle: Rice, C. L. 00939  
Offutt quadrangle: Outerbridge, W. F. 00799  
Oil Springs quadrangle: Outerbridge, W. F. 00801  
Paintsville area: Baker, J. A. 00046  
Paintsville quadrangle: Outerbridge, W. F. 00800  
Prestonsburg quadrangle: Price, W. E., Jr. 00909  
Prestonsburg quadrangle: Rice, C. L. 00942  
Redbush quadrangle: Rice, C. L. 00943  
Salyersville North quadrangle: Adkison, W. L. 00005  
Salyersville North quadrangle: Adkison, W. L. 00096



**Kentucky***Kenova quadrangle*

Boyd, Carter, Elliott, Greenup, and Lawrence Counties: Phalen, W. C. 00883

Boyd, Carter, Elliott, Greenup, and Lawrence Counties: Phalen, W. C. 00886

Boyd, Carter, Elliott, Greenup and Lawrence Counties: Phalen, W. C. 00888

*Keokee quadrangle*

Harlan County: Miller, R. L. 01331

*Kermit quadrangle*

Martin County: Huddle, J. W. 00538

Martin County: Huddle, J. W. 00567

*Ketchen quadrangle*

McCreary and Whitley Counties: Englund, K. J. 00380

McCreary and Whitley Counties: Englund, K. J. 00369

*Knott County*

Carrie quadrangle: Seiders, V. M. 01001

Cornettsville quadrangle: Johnston, J. E. 00583

Drill holes, cores, logs: Alvord, D. C. 01314

Tiptop quadrangle: Welch, S. W. 01285

Tiptop quadrangle: Welch, S. W. 01286

Troublesome quadrangle: Williamson, A. D. 01252

*Knox County*

Blackwater quadrangle: Stager, H. K. 01090

Corbin quadrangle: Puffett, W. P. 00916

Hima quadrangle: Reeves, R. G. 00930

Rockholds quadrangle: Smith, J. H. 01042

Vicco quadrangle: Puffett, W. P. 00918

*Krypton quadrangle*

Breathitt, Leslie, and Perry Counties: Mixon, R. B. 00771

*Lancer quadrangle*

Floyd, Johnson, and Martin Counties: Rice, C. L. 00939

*Landsaw quadrangle*

Breathitt and Wolfe Counties: Hansen, W. R. 00486

*Laurel County*

Ano quadrangle: Stager, H. K. 01087

Bernstadt quadrangle: Hatch, N. L., Jr. 00493

Billows quadrangle: Hatch, N. L., Jr. 00494

Blackwater quadrangle: Stager, H. K. 01090

Corbin quadrangle: Puffett, W. P. 00916

Lily quadrangle: Stager, H. K. 01088

London quadrangle: Campbell, M. R. 00167

London quadrangle: Hatch, N. L., Jr. 00495

London SW quadrangle: Stager, H. K. 01089

Parrot quadrangle: Crowder, D. F. 00275

Portersburg quadrangle: Pomerene, J. B. 00908

Sawyer quadrangle: Puffett, W. P. 00914

Vox quadrangle: Puffett, W. P. 00915

*Lawrence County*

Fallsburg and Prichard quadrangles: Sharps, J. A. 01006

Kenova quadrangle: Phalen, W. C. 00883

Kenova quadrangle: Phalen, W. C. 00886

Kenova quadrangle: Phalen, W. C. 00888

Milo and Webb quadrangles: Jenkins, E. C. 00565

Redbush quadrangle: Rice, C. L. 00943

**Kentucky***Leatherwood quadrangle*

Leslie and Perry Counties: Prostka, H. J. 00913

*Lee City quadrangle*

Wolfe, Breathitt, and Morgan Counties: Post, E. V. 01058

*Lee County*

Campton quadrangle: Briggs, R. P. 00121

*Lenox quadrangle*

Morgan and Elliott Counties: Johnston, J. E. 00581

*Leslie County*

Buckhorn quadrangle: Stafford, P. T. 01091

Cornettsville quadrangle: Johnston, J. E. 00583

Hazard South quadrangle: Puffett, W. P. 00917

Hyden East quadrangle: Prostka, H. J. 00912

Hyden quadrangle: Johnston, J. E. 00582

Krypton quadrangle: Mixon, R. B. 00771

Leatherwood quadrangle: Prostka, H. J. 00913

Nolansburg quadrangle: Csejtey, Bela. 01324

*Letcher County*

Big Stone Gap field: Campbell, M. R. 00177

Cornettsville quadrangle: Johnston, J. E. 00583

Drill holes, cores, logs: Alvord, D. C. 01314

Elkhorn field: Stone, R. W. 01103

Estillville quadrangle: Campbell, M. R. 00166

Nolansburg quadrangle: Csejtey, Bela. 01324

Pound quadrangle: Butts, Charles. 00151

Russell Fork field: Stone, R. W. 01105

Tilford quadrangle: Puffett, W. P. 00919

*Lewis County*

Friendship quadrangle: Erickson, R. L. 00392

*Lewisport quadrangle*

Daviess and Hancock Counties: Spencer, F. D. 01076

*Lick Creek quadrangle*

Pike County: McKay, E. J. 01330

*Lily quadrangle*

Laurel County: Stager, H. K. 01088

*Livingston County*

Golconda quadrangle: Amos, D. H. 00010

*Load quadrangle*

Greenup County: Sharps, J. A. 01005

*Logan County*

Dunmor quadrangle: Miller, T. P. 00769

Quality quadrangle: Gildersleeve, Benjamin. 00440

Sharon Grove quadrangle: Ulrich, G. E. 01165

*London quadrangle*

Jackson, Laurel, Pulaski, and Rockcastle Counties: Campbell, M. R. 00167

Laurel County: Hatch, N. L., Jr. 00495

*London SW quadrangle*

Laurel County: Stager, H. K. 01089

*Maceo quadrangle*

Daviess and Hancock Counties: Calvert, R. H. 00158

**Kentucky—Continued***Madison County*

Richmond quadrangle: Campbell, M. R.  
00165

*Madisonville East quadrangle*

Hopkins and Muhlenberg Counties: Kehn, T.  
M. 00588

*Madisonville West quadrangle*

Hopkins County: Kehn, T. M. 00589

*Magoffin County*

Cannel City quadrangle: Englund, K. J. 00364

David quadrangle: Outerbridge, W. F. 00802

Ivyton quadrangle: Rice, C. L. 00945

Oil Springs quadrangle: Outerbridge, W. F.  
00801

Salyersville North quadrangle: Adkison, W.  
L. 00005

Salyersville quadrangle: Adkison, W. L. 00096

Seitz quadrangle: Bergin, M. J. 00089

Seitz quadrangle: Bergin, M. J. 00098

Tiptop quadrangle: Welch, S. W. 01285

Tiptop quadrangle: Welch, S. W. 01286

White Oak quadrangle: Adkison, W. L. 00004

White Oak quadrangle: Adkison, W. L. 00097

*Main Nolin coal*

Brownsville and Reedyville quadrangles,

Butler, Edmonson and Warren Counties:  
Shawe, F. R. 01063

*Majestic quadrangle*

Pike County: Outerbridge, W. F. 00893

*Mammoth Cave quadrangle*

Barren, Hart, and Edmonson Counties:

Haynes, D. D. 00509

*Manchester quadrangle*

Clay County: Finnell, T. L. 00404

*Martin County*

Inez quadrangle: Outerbridge, W. F. 00798

Kermit and Varney quadrangles: Huddle, J.  
W. 00538

Kermit quadrangle: Huddle, J. W. 00567

Lancer quadrangle: Rice, C. L. 00939

Milo and Webb quadrangles: Jenkins, E. C.  
00565

Naugatuck quadrangle: Alvord, D. C. 01351

Offutt quadrangle: Outerbridge, W. F. 00799

Thomas quadrangle: Rice, C. L. 00938

Varney quadrangle: Huddle, J. W. 00566

Williamson quadrangle: Alvord, D. C. 00009

*Martin quadrangle*

Floyd County: Rice, C. L. 00941

*Matewan quadrangle*

Pike County: Trent, V. A. 01138

*McCreary County*

Barthell and Oneida North quadrangles:

Pomerene, J. B. 00907

Beaver Creek basin: Collier, C. R. 00248

Beaver Creek basin: Collier, C. R. 01323

Beaver Creek basin: Musser, J. J. 00787

Cane Branch and Helton Branch areas:

Lyons, E. J. 00701

Cumberland Falls quadrangle: Smith, J. H.  
01049

Hollyhill quadrangle: Loney, R. A. 00684

Jellico West quadrangle: Englund, K. J. 01326

**Kentucky***McCreary County*

Ketchen and Jellico West quadrangles:

Englund, K. J. 00380

Ketchen quadrangle: Englund, K. J. 00369

Sawyer quadrangle: Puffett, W. P. 00914

Whitley City and Winfield quadrangles:

Pomerene, J. B. 00906

Wiborg quadrangle: Smith, J. H. 01358

*McDowell quadrangle*

Floyd and Pike Counties: Rice, C. L. 00944

*McLean County*

Equality quadrangle: Goudarzi, G. H. 00450

*Menifee County*

Ezel quadrangle: Pipiringos, G. N. 01060

*Meta quadrangle*

Pike County: Wolcott, D. E. 01224

*Middlesboro North quadrangle*

Bell County: Englund, K. J. 00387

*Middlesboro South quadrangle*

Bell County: Englund, K. J. 00368

*Millard quadrangle*

Pike County: Jenkins, E. C. 00553

*Milo quadrangle*

Lawrence and Webb Counties: Jenkins, E. C.  
00565

*Morgan County*

Cannel City quadrangle: Englund, K. J. 00364

Ezel quadrangle: Pipiringos, G. N. 01060

Hazel Green quadrangle: Cashion, W. B.  
00222

Lee City quadrangle: Post, E. V. 01058

Lenox quadrangle: Johnston, J. E. 00581

Redbush quadrangle: Rice, C. L. 00943

Salyersville North quadrangle: Adkison, W.  
L. 00005

Salyersville quadrangle: Adkison, W. L. 00096

Sandy Hook quadrangle: Englund, K. J.  
00383

Seitz quadrangle: Bergin, M. J. 00089

Seitz quadrangle: Bergin, M. J. 00098

West Liberty quadrangle: Englund, K. J.  
00385

White Oak quadrangle: Adkison, W. L. 00004

White Oak quadrangle: Adkison, W. L. 00097

Wrigley quadrangle: Hosterman, J. W. 00537

Wrigley quadrangle: Patterson, S. H. 00870

*Muhlenberg County*

Central City West quadrangle: Palmer, J. E.  
01332

Dunmor quadrangle: Miller, T. P. 00769

Equality quadrangle: Goudarzi, G. H. 00450

Graham quadrangle: Kehn, T. M. 00593

Madisonville East quadrangle: Kehn, T. M.  
00588

*Naugatuck quadrangle*

Martin County: Alvord, D. C. 01351

*Nebo quadrangle*

Webster and Hopkins Counties: Franklin, G.  
J. 00419

*No. 4 bed, western field*

Correlation: Kehn, T. M. 00595

*Nolansburg quadrangle*

Harlan, Leslie, Letcher, and Perry Counties:  
Csejtey, Bela. 01324

**Kentucky***Nortonville quadrangle*

Hopkins and Christian Counties: Palmer, J. E. 00810

*Offutt quadrangle*

Johnson and Martin Counties: Outerbridge, W. F. 00799

*Ohio County*

Central City West quadrangle: Palmer, J. E. 01332

Dundee quadrangle: Goudarzi, G. H. 00451

Equality quadrangle: Goudarzi, G. H. 00450

Fordsville quadrangle: Bergendahl, M. H. 00088

Hartford quadrangle: Goudarzi, G. H. 00449

Olaton quadrangle: Johnson, W. D., Jr. 00576

Philpot quadrangle: Calvert, R. H. 00156

Pleasant Ridge quadrangle: Goudarzi, G. H. 00452

Whitesville quadrangle: Calvert, R. H. 00157

*Oil Springs quadrangle*

Johnson and Magoffin Counties: Outerbridge, W. F. 00801

*Olaton quadrangle*

Gray and Ohio Counties: Johnson, W. D., Jr. 00576

*Oldtown quadrangle*

Greenup and Carter Counties: Whittington, C. L. 01296

*Olney quadrangle*

Caldwell and Hopkins Counties: Trace, R. D. 01137

*Oneida North quadrangle*

McCreary County: Pomerene, J. B. 00907

*Owensboro East quadrangle*

Daviess County: Johnson, W. D., Jr. 00577

*Painitsville area*

Johnson County: Baker, J. A. 00046

*Painitsville quadrangle*

Johnson and Floyd Counties: Outerbridge, W. F. 00800

*Paleobotany, Pennsylvanian rocks*

Eastern field: Kosanke, R. M. 00620

Eastern field: Kosanke, R. M. 00621

Eastern field: Kosanke, R. M. 00622

Eastern field: Kosanke, R. M. 00623

Eastern field: Kosanke, R. M. 00624

Eastern field: Kosanke, R. M. 00625

Perry County, Hazard No. 7 coal:

Kosanke, R. M. 00621

Western field: Kosanke, R. M. 00620

Western field: Kosanke, R. M. 00625

*Parrot quadrangle*

Jackson and Laurel Counties: Crowder, D. F. 00275

*Pellville quadrangle*

Daviess and Hancock Counties: Spencer, F. D. 01075

*Perry County*

Buckhorn quadrangle: Stafford, P. T. 01091

Cornettsville quadrangle: Johnston, J. E. 00583

Drill holes, cores, logs: Alvord, D. C. 01314

Hazard No. 7 coal, plant microfossils:

Kosanke, R. M. 00621

**Kentucky***Perry County*

Hazard North quadrangle: Seiders, V. M. 01000

Hazard South quadrangle: Puffett, W. P. 00917

Hyden East quadrangle: Prostka, H. J. 00912

Hyden quadrangle: Johnston, J. E. 00582

Krypton quadrangle: Mixon, R. B. 00771

Leatherwood quadrangle: Prostka, H. J. 00913

Nolansburg quadrangle: Csejtey, Bela. 01324

Tilford quadrangle: Puffett, W. P. 00919

Troublesome quadrangle: Williamson, A. D. 01252

Vicco quadrangle: Puffett, W. P. 00918

*Philpot quadrangle*

Daviess and Ohio Counties: Calvert, R. H. 00156

*Pike County*

Broad Bottom quadrangle: Alvord, D. C. 00007

Delbarton quadrangle: Alvord, D. C. 01351

Dorton quadrangle: Barr, J. L. 00068

Drill holes, cores, logs: Alvord, D. C. 01314

Elkhorn field: Stone, R. W. 01103

Jamboree quadrangle: Outerbridge, W. F. 00892

Lick Creek quadrangle: McKay, E. J. 01330

Majestic, Hurley, and Wharncliffe quadrangles: Outerbridge, W. F. 00893

Matewan quadrangle: Trent, V. A. 01138

McDowell quadrangle: Rice, C. L. 00944

Meta quadrangle: Wolcott, D. E. 01224

Millard quadrangle: Jenkins, E. C. 00553

Pikeville quadrangle: Alvord, D. C. 00008

Pound quadrangle: Butts, Charles. 00151

Resources: Hunt, C. B. 00544

Russell Fork field: Stone, R. W. 01105

Thomas quadrangle: Rice, C. L. 00938

Varney quadrangle: Huddle, J. W. 00538

Varney quadrangle: Huddle, J. W. 00566

Williamson quadrangle: Alvord, D. C. 00009

*Pikeville quadrangle*

Pike and Floyd Counties: Alvord, D. C. 00008

*Pleasant Ridge quadrangle*

Ohio and Daviess Counties: Goudarzi, G. H. 00452

*Portersburg quadrangle*

Clay, Jackson, and Laurel Counties: Pomerene, J. B. 00908

*Portsmouth quadrangle*

Greenup County: Sheppard, R. A. 01065

*Pound quadrangle*

Letcher and Pike Counties: Butts, Charles. 00151

*Prestonsburg quadrangle*

Floyd and Johnson Counties: Price, W. E., Jr. 00909

Floyd and Johnson Counties: Rice, C. L. 00942

*Prichard quadrangle*

Boyd and Lawrence Counties: Sharps, J. A. 01006

**Kentucky—Continued***Providence quadrangle*

Webster County: Kehn, T. M. 00591

*Pulaski County*

Ano quadrangle: Stager, H. K. 01087

Billows quadrangle: Hatch, N. L., Jr. 00494

London quadrangle: Campbell, M. R. 00167

Shopville quadrangle: Hatch, N. L., Jr. 00496

*Quality quadrangle*

Butler and Logan Counties: Gildersleeve, Benjamin. 00440

*Quicksand quadrangle*

Breathitt County: Donnell, J. R. 00353

*Reebush quadrangle*

Johnson, Lawrence, and Morgan Counties: Rice, C. L. 00943

*Reedyville quadrangle*

Butler, Edmonson, and Warren Counties:

Shawe, F. R. 01016

Stratigraphy, base of Pennsylvanian System: Shawe, F. R. 01063

*Repton quadrangle*

Crittenden County: Seeland, D. A. 00999

*Rhoda quadrangle*

Edmonson County: Klemic, Harry. 00608

*Richmond quadrangle*

Estill, Jackson, Madison, and Rockcastle Counties: Campbell, M. R. 00165

*Riverside quadrangle*

Butler and Warren Counties: Shawe, F. R. 01017

*Rockcastle County*

Bernstadt quadrangle: Hatch, N. L., Jr. 00493

Billows quadrangle: Hatch, N. L., Jr. 00494

Johnetta quadrangle: Gualtieri, J. L. 00462

London quadrangle: Campbell, M. R. 00167

Richmond quadrangle: Campbell, M. R. 00165

Shopville quadrangle: Hatch, N. L., Jr. 00496

Wildie quadrangle: Gualtieri, J. L. 00461

*Rockholds quadrangle*

Whitley and Knox Counties: Smith, J. H. 01042

*Rockport quadrangle*

Daviss County: Spencer, F. D. 01076

*Rowan County*

Haldeman and Wrigley quadrangles:

Patterson, S. H. 00870

Haldeman quadrangle: Patterson, S. H. 00869

Wrigley quadrangle: Hosterman, J. W. 00537

*Rush quadrangle*

Boyd and Carter Counties: Carlson, J. E. 00220

*Russell Fork field*

Pike and Letcher Counties: Stone, R. W. 01105

*Saint Charles and Nortonville quadrangles*

Hopkins and Christian Counties: Palmer, J. E. 00811

*Saint Charles quadrangle*

Hopkins and Christian Counties: Palmer, J. E. 00809

*Salem quadrangle*

Crittenden County: Trace, R. D. 01136

**Kentucky***Salysville North quadrangle*

Magoffin, Morgan, and Johnson Counties: Adkison, W. L. 00005

*Salysville quadrangle*

Magoffin, Morgan, and Johnson Counties: Adkison, W. L. 00096

*Sandy Hook quadrangle*

Elliott and Morgan Counties: Englund, K. J. 00383

*Sawyer quadrangle*

Laurel, Whitley, and McCreary Counties: Puffett, W. P. 00914

*Seitz quadrangle*

Breathitt, Magoffin, Morgan, and Wolfe Counties: Bergin, M. J. 00089

Breathitt, Magoffin, Morgan, and Wolfe Counties: Bergin, M. J. 00098

*Sharon Grove quadrangle*

Todd and Logan Counties: Ulrich, G. E. 01165

*Shopville quadrangle*

Pulaski and Rockcastle Counties: Hatch, N. L., Jr. 00496

*Slaughters quadrangle*

Hopkins and Webster Counties: Kehn, T. M. 00590

*Strip mining, effects of*

Beaver Creek basin, McCreary County: Collier, C. R. 00248

Beaver Creek basin, McCreary County: Collier, C. R. 01323

Beaver Creek basin, McCreary County: Musser, J. J. 00787

*Sutherland quadrangle*

Daviss County: Johnson, W. D., Jr. 00578

Daviss County: Smith, A. E. 01024

*Tell City quadrangle*

Hancock County: Spencer, F. D. 01078

*Thomas quadrangle*

Floyd, Martin, and Pike Counties: Rice, C. L. 00938

*Tilford quadrangle*

Letcher and Perry Counties: Puffett, W. P. 00919

*Tiptop quadrangle*

Breathitt, Magoffin, and Knott Counties: Welch, S. W. 01285

Breathitt, Magoffin, and Knott Counties: Welch, S. W. 01286

*Todd County*

Allegre quadrangle: Klemic, Harry. 00609

Sharon Grove quadrangle: Ulrich, G. E. 01165

*Troublesome quadrangle*

Breathitt, Knott, and Perry Counties: Williamson, A. D. 01252

*Tygart's Valley quadrangle*

Carter and Greenup Counties: Sheppard, R. A. 01064

*Tyner quadrangle*

Clay and Jackson Counties: Snyder, G. L. 01049

*Union County*

Blackford quadrangle: Amos, D. H. 01313

**Kentucky***Varilla quadrangle*

Bell County: Englund, K. J. 00386

*Varney quadrangle*

Martin and Pike Counties: Huddle, J. W. 00538

Martin and Pike Counties: Huddle, J. W. 00566

*Vicco quadrangle*

Knox and Perry Counties: Puffett, W. P. 00918

*Vox quadrangle*

Laurel and Whitley Counties: Puffett, W. P. 00915

*Warren County*

Bowling Green North quadrangle: Shawe, F. R. 01015

Bristow quadrangle: Gildersleeve, Benjamin. 00438

Reedyville quadrangle: Shawe, F. R. 01016

Reedyville quadrangle, stratigraphy, base of Pennsylvanian System: Shawe, F. R. 01063

Riverside quadrangle: Shawe, F. R. 01017

*Webb quadrangle*

Lawrence and Martin Counties: Jenkins, E. C. 00565

*Webster County*

Blackford quadrangle: Amos, D. H. 01313

Dalton quadrangle: Palmer, J. E. 00808

Hanson quadrangle: Franklin, G. J. 00417

Nebo quadrangle: Franklin, G. J. 00419

Providence quadrangle: Kehn, T. M. 00591

Slaughters quadrangle: Kehn, T. M. 00590

*West Liberty quadrangle*

Morgan County: Englund, K. J. 00385

*Western field*

No. 4 (Dawson Springs No. 6) bed, correlation: Kehn, T. M. 00595

Paleobotany, Pennsylvanian rocks: Kosanke, R. M. 00620

Paleobotany, Pennsylvanian rocks: Kosanke, R. M. 00625

Stratigraphy, base of Pennsylvanian System: Shawe, F. R. 01063

Summary, 1900: Ashley, G. H. 00026

*Wharncliffe quadrangle*

Pike County: Outerbridge, W. F. 00893

*White Oak quadrangle*

Magoffin and Morgan Counties: Adkison, W. L. 00004

Magoffin and Morgan Counties: Adkison, W. L. 00097

*Whitesville quadrangle*

Daviess, Hancock, and Ohio Counties:

Calvert, R. H. 00157

*Whitley City quadrangle*

McCreary County: Pomerene, J. B. 00906

*Whitley County*

Corbin quadrangle: Puffett, W. P. 00916

Cumberland Falls quadrangle: Smith, J. H. 01040

Hollyhill quadrangle: Loney, R. A. 00684

Jellico West quadrangle: Englund, K. J. 01326

Ketchen and Jellico West quadrangles:

Englund, K. J. 00380

**Kentucky***Whitley County*

Rockholds quadrangle: Smith, J. H. 01042

Sawyer quadrangle: Puffett, W. P. 00914

Vox quadrangle: Puffett, W. P. 00915

Williamsburg quadrangle: Tabor, R. W. 01111

Wofford quadrangle: Smith, J. H. 01041

*Wildie quadrangle*

McCreary County: Smith, J. H. 01358

*Wildie quadrangle*

Garrard and Rockcastle Counties: Gualtieri, J. L. 00461

*Williamsburg quadrangle*

Whitley County: Tabor, R. W. 01111

*Williamson quadrangle*

Pike and Martin Counties: Alvord, D. C. 00009

*Winfield quadrangle*

McCreary County: Pomerene, J. B. 00906

*Wofford quadrangle*

Whitley County: Smith, J. H. 01041

*Wolfe County*

Campton quadrangle: Briggs, R. P. 00121

Cannel City quadrangle: Englund, K. J. 00364

Hazel Green quadrangle: Cashion, W. B. 00222

Landsaw quadrangle: Hansen, W. R. 00486

Lee City quadrangle: Post, E. V. 01058

Seitz quadrangle: Bergin, M. J. 00089

Seitz quadrangle: Bergin, M. J. 00098

*Wrigley quadrangle*

Morgan, Rowan, and Elliott Counties:

Hosterman, J. W. 00537

Rowan, Morgan, and Elliott Counties:

Patterson, S. H. 00870

**Korea***Coal fields*

Summary: Andrews, D. A. 00013

*Hambaek field*

Summary: Baldwin, E. M. 00049

*Hwasun field*

Summary: Hi, C. C. 00519

*Macha-ri field*

Summary: Reinemund, J. A. 00932

*Mungyong-Eunsong field*

Summary: Hi, C. C. 00519

*Resources*

Summary: Andrews, D. A. 00013

*Tangyang field*

Summary: Brill, K. G., Jr. 00122

**Maine***Peat*

Distribution, use, resources: Bastin, E. S. 00072

**Maryland***Accident quadrangle*

Garrett County: Martin, G. C. 00740

*Allegany County*

Grantsville quadrangle: Martin, G. C. 00740

Pawpaw quadrangle: Stose, G. W. 01141

Piedmont quadrangle: Darton, N. H. 00320

*Coal fields*

Summary, 1900: White, David. 01294

**Maryland—Continued***Garrett County*

Accident-Grantsville quadrangles: Martin, G. C. 00740

Piedmont quadrangle: Darton, N. H. 00320

*Grantsville quadrangle*

Allegheny and Garrett Counties: Martin, G. C. 00740

*Pawpaw quadrangle*

Allegheny and Washington Counties: Stose, G. W. 01141

*Peat*

Distribution, type, resources: Cameron, C. C. 01320

*Piedmont quadrangle*

Allegheny and Garrett Counties: Darton, N. H. 00320

*Washington County*

Pawpaw quadrangle: Stose, G. W. 01141

**Mexico***Santa Clara district*

Sonora: Wilson, I. F. 01216

*Sonora*

Santa Clara district: Wilson, I. F. 01216

**Michigan***Resources*

Summary, 1950: Cohee, G. V. 00235

Summary, 1900: Lane, A. C. 00632

**Mine bumps***Geology applied to study of*

Utah, Carbon County, Sunnyside area: Osterwald, F. W. 00795

*Instrumentation for study of*

Utah, Carbon County, Sunnyside area: Maberry, J. O. 00712

*Seismic study of*

Utah, Carbon and Emery Counties: Dunrud, C. R. 00359

**Mining***Accidents*

Causes, prevention: Hall, Clarence. 00479

*Explosions*

Prevention: Munroe, C. E. 00785

Prevention: Rice, G. S. 00946

Prevention: Watteyne, Victor. 01261

Preventions: Chamberlin, R. T. 00224

**Minor elements in coal***Appalachian basin*

Geochemical and geographic distribution: Zubovic, Peter. 01312

*Association with organic and inorganic phases*

Geochemistry: Zubovic, Peter. 01307

*Chemical basis of associations*

Geochemistry: Zubovic, Peter. 01310

*Comparative abundance*

Geochemistry: Zubovic, Peter. 01308

*Eastern Interior basin*

Geochemical and geographic distribution: Zubovic, Peter. 01311

*Northern Great Plains province*

Geochemical and geographic distribution: Zubovic, Peter. 01309

*Relation to source rock*

Geochemistry: Zubovic, Peter. 01306

**Minor elements in coal***Texas, Colorado, North and South Dakota*

Geochemical and geographic distribution: Deul, Maurice. 01354

*Western Interior basin*

Geochemical and geographic distribution: Zubovic, Peter. 01305

**Mississippi***Lignite*

General: Crider, A. F. 00271

**Missouri***Adair County*

General: Greene, F. C. 00454

*Clay associated with coal*

Saint Louis district: Fenneman, N. M. 00396

*Clay County*

Smithville quadrangle: Hinds, Henry. 00569

*Clinton County*

Smithville quadrangle: Hinds, Henry. 00569

*Coal fields*

Summary, 1900: Bain, H. F. 00048

Summary, 1892: Winslow, Arthur. 01222

*Jasper County*

Joplin district quadrangle: Smith, W. S. 01046

*Joplin district quadrangle*

Jasper County: Smith, W. S. 01046

*Leavenworth quadrangle*

Platt County: Hinds, Henry. 00569

*Northeastern part*

Adair, Putnam, Schuyler, and Sullivan Counties: Greene, F. C. 00454

*Paleobotany*

Paleozoic rocks: White, David. 01290

*Paleozoic rocks*

Paleobotany: White, David. 01290

*Platt County*

Leavenworth-Smithville quadrangles: Hinds, Henry. 00569

*Putnam County*

General: Greene, F. C. 00454

*Saint Louis district*

Clay associated with coal: Fenneman, N. M. 00396

*Schuyler County*

General: Greene, F. C. 00454

*Smithville quadrangle*

Clay, Clinton, and Platt Counties: Hinds, Henry. 00569

*Sullivan County*

General: Greene, F. C. 00454

**Missouri River basin***Fuel resources*

Map: Dow, D. H. 00354

**Missouri, southwestern part***Carboniferous basins*

Paleobotany: White, David. 01289

**Montana***Ashland field*

Rosebud, Powder River, and Custer Counties: Bass, N. W. 00069

*Assiniboine region*

Big Sandy quadrangle, Chouteau County: Lindvall, R. M. 00677

Boxelder quadrangle, Hill and Chouteau Counties: Lindvall, R. M. 00678

**Montana***Assiniboine region*

- Eagle Buttes quadrangle, Chouteau County:  
Lindvall, R. M. 00679  
Eskey quadrangle, Chouteau and Blaine  
Counties: Lindvall, R. M. 00680

*Baker field*

- Custer and Fallon Counties: Bowen, C. F.  
00108

*Baylor quadrangle, south half*

- Valley County: Colton, R. B. 00288

*Bear Creek field*

- Carbon County: Fisher, C. A. 00408

*Bearpaw Mountains*

- Centennial Mountain quadrangle, Chouteau  
and Hill Counties: Stewart, D. B. 01095  
Cleveland quadrangle, Blaine County:  
Schmidt, R. G. 00988  
Laredo quadrangle, Hill and Chouteau  
Counties: Pecora, W. T. 00875  
Lloyd quadrangle, Blaine County: Schmidt,  
R. G. 00987

- Maddux quadrangle, Blaine County: Bryant,  
B. H. 00132

- Rattlesnake quadrangle, Blaine County:  
Hearn, B. C. 00510

- Shambo quadrangle, Hill and Blaine  
Counties: Kerr, J. H. 00604

- Warrick quadrangle, Hill, Chouteau, and  
Blaine Counties: Pecora, W. T. 00874

*Beaverhead National Forest*

- Madison County: Klepper, M. R. 00611

*Big Horn County*

- Forsyth field: Dobbin, C. E. 00348  
General: Thom, W. T., Jr. 01128  
Moorhead field: Bryson, R. P. 00134  
Pine Ridge field: Rogers, G. S. 00969  
Sheridan field, northward extension: Baker,  
A. A. 00045  
Tullock Creek field: Rogers, G. S. 01050

*Big Sandy field*

- Chouteau County: Bowen, C. F. 00113  
Chouteau County: Pierce, W. G. 00896

*Big Sandy quadrangle*

- Chouteau County: Lindvall, R. M. 00677

*Birney-Broadus field*

- Rosebud and Powder River Counties:  
Warren, W. C. 01202

*Black Hills region, geologic and structure contour map*

- Carter and Powder River Counties: Mapel,  
W. J. 00726

*Blackfeet-Valier field*

- Glacier, Pondera, and Toole Counties:  
Stebinger, Eugene. 01094

*Blaine County*

- Cleveland field: Bowen, C. F. 00112  
Cleveland quadrangle: Schmidt, R. G. 00988  
Eskey quadrangle: Lindvall, R. M. 00680  
Little Rocky Mountains: Knechtel, M. M.  
00616  
Lloyd quadrangle: Schmidt, R. G. 00987  
Maddux quadrangle: Bryant, B. H. 00132  
Milk River field: Pepperberg, L. J. 00876  
Milk River field: Pepperberg, L. J. 00889

**Montana***Blaine County*

- Rattlesnake quadrangle: Hearn, B. C. 00510  
Shambo quadrangle: Kerr, J. H. 00604  
Warrick quadrangle: Pecora, W. T. 00874

*Boxelder quadrangle*

- Hill and Chouteau Counties: Lindvall, R. M.  
00678

*Bozeman Pass quadrangle*

- Gallatin and Park Counties: Roberts, A. E.  
00964

*Bridger field*

- Carbon County: Knappen, R. S. 00613  
Carbon County: Washburne, C. W. 01204

*Brisbin quadrangle*

- Park County: Roberts, A. E. 00957

*Brockton quadrangle*

- Roosevelt and Richland Counties: Colton, R.  
B. 00253

*Bull Mountain field*

- Musselshell and Yellowstone Counties:  
Woolsey, L. H. 01256

- Musselshell and Yellowstone Counties:  
Woolsey, L. H. 01257

- Musselshell County: Ellis, A. J. 00362  
Yellowstone County: Hall, G. M. 00480

*Bull Mountain field, central part*

- Musselshell and Yellowstone Counties:  
Richards, R. W. 00948

*Bull Mountain field, eastern part*

- Musselshell and Yellowstone Counties:  
Lupton, C. T. 00697

*Carbon County*

- Bear Creek field: Fisher, C. A. 00408  
Bridger field: Knappen, R. S. 00613  
Castagne quadrangle: Smith, H. L. 01035  
Cooney Reservoir quadrangle: Wanek, A. A.  
01197  
Montaqua quadrangle: Patterson, E. D. 00868  
Rapids quadrangle: Wanek, A. A. 01198  
Red Lodge field: Calvert, W. R. 00163  
Red Lodge field: Darton, N. H. 00310  
Red Lodge field: Washburne, C. W. 01204  
Red Lodge field: Woodruff, E. G. 01241  
Roberts quadrangle: Zeller, H. D. 01299

*Carter County*

- Black Hills region, geologic and structure  
contour map: Mapel, W. J. 00726  
Ekalaka field: Bauer, C. M. 00074  
Uranium-bearing coal: Denson, N. M. 00334  
Uranium-bearing coal: Denson, N. M. 00375

*Carter County, Ekalaka field*

- Uranium-bearing coal: Gill, J. R. 00442

*Cartersville quadrangle*

- Rosebud County: Smith, J. F., Jr. 01037

*Cascade County*

- Fort Benton quadrangle: Weed, W. H. 01265  
Great Falls field: Fisher, C. A. 00409  
Great Falls field: Fisher, C. A. 00411  
Great Falls field: Fisher, C. A. 00412  
Great Falls field, Hound Creek district:  
Barnett, V. H. 00067  
Little Belt Mountains quadrangle: Weed, W.  
H. 01266  
Portage quadrangle: Lemke, R. W. 00648

**Montana—Continued***Castagne quadrangle*

Carbon County: Smith, H. L. 01035

*Centennial Mountain quadrangle*

Chouteau and Hill Counties: Stewart, D. B. 01095

*Chelsea quadrangle*

Roosevelt and McCone Counties: Colton, R. B. 00254

*Chimney Rock quadrangle*

Park County: Roberts, A. E. 00958

*Chouteau County*

Big Sandy field: Bowen, C. F. 00113

Big Sandy field: Pierce, W. G. 00896

Big Sandy quadrangle: Lindvall, R. M. 00677

Boxelder quadrangle: Lindvall, R. M. 00678

Centennial Mountain quadrangle: Stewart, D. B. 01095

Eagle Buttes quadrangle: Lindvall, R. M. 00679

Eskay quadrangle: Lindvall, R. M. 00680

Fort Benton quadrangle: Weed, W. H. 01265

Laredo quadrangle: Pecora, W. T. 00875

Lower Marias River area: Smith, J. F., Jr. 01038

Warrick quadrangle: Pecora, W. T. 00874

*Cleveland field*

Blaine County: Bowen, C. F. 00112

*Cleveland quadrangle*

Blaine County: Schmidt, R. G. 00988

*Clinker*

Origin, composition: Rogers, G. S. 00970

*Coal fields*

Map: Combo, J. X. 00263

Summary, 1949: Combo, J. X. 00262

Summary, 1900: Storrs, L. S. 01109

Summary, 1894: Weed, W. H. 01264

*Coalwood field*

Powder River County: Bryson, R. P. 00133

*Cooney Reservoir quadrangle*

Carbon and Stillwater Counties: Wanek, A. A. 01197

*Crazy Mountains field*

Meagher, Park, and Wheatland Counties: Stone, R. W. 01106

*Crow Indian Reservation*

General: Thom, W. T., Jr. 01128

*Culbertson field*

Sheridan and Roosevelt Counties: Beekly, A. L. 00082

*Cuskers quadrangle*

Roosevelt County: Colton, R. B. 00255

*Custer County*

Ashland field: Bass, N. W. 00069

Baker field: Bowen, C. F. 00108

Hathaway quadrangle: Smith, J. F., Jr. 01037

Little Sheep Mountain field: Rogers, G. S. 00968

Miles City field: Collier, A. J. 00247

Miles City field: Leonard, A. G. 00651

Mizpah field: Parker, F. S. 00865

Rosebud field: Pierce, W. G. 00894

Stripping coal: Brown, Andrew. 00130

Terry field: Herald, F. A. 00515

**Montana***Custer National Forest*

Powder River and Rosebud Counties: Wegemann, C. H. 01278

*Daniels County*

Fort Peck Indian Reservation: Smith, C. D. 01027

Larslan, West Fork, Police Creek, Kahle, and Lundville quadrangles, south half: Colton, R. B. 00288

Scobey field: Bauer, C. M. 00073

Scobey field: Collier, A. J. 00245

*Dawson County*

Glendive field: Hance, J. H. 00481

Glendive field: Leonard, A. G. 00651

Richey-Lambert field: Parker, F. S. 00864

Sidney field: Stebinger, Eugene. 01093

Stripping coal: Culbertson, W. C. 00276

Stripping coal: May, P. R. 00756

Wibaux area, stripping coal: May, P. R. 00756

*Deer Lodge County*

Tertiary lake beds: Pardee, J. T. 00813

*Eagle Buttes quadrangle*

Chouteau County: Lindvall, R. M. 00679

*Eastern Montana*

General: Calvert, W. R. 00160

*Ekalaka field*

Carter and Fallon Counties: Bauer, C. M. 00074

*Electric field*

Park County: Calvert, W. R. 00162

*Eskay quadrangle*

Chouteau and Blaine Counties: Lindvall, R. M. 00680

*Fallon County*

Baker field: Bowen, C. F. 00108

Ekalaka field: Bauer, C. M. 00074

Terry field: Herald, F. A. 00515

*Fergus County*

Fort Benton quadrangle: Weed, W. H. 01265

General: Bowen, C. F. 00111

Lewistown field: Calvert, W. R. 00159

Lewistown field: Calvert, W. R. 00179

*Forsyth field*

Rosebud, Treasure, and Big Horn Counties: Dobbin, C. E. 00348

*Fort Benton quadrangle*

Cascade, Chouteau, Fergus, and Judith Basin Counties: Weed, W. H. 01265

*Fort Ellis quadrangle*

Gallatin County: Roberts, A. E. 00962

*Fort Peck Indian Reservation*

Daniels, McCone, Richland, Roosevelt, Sheridan, and Valley Counties: Smith, C. D. 01027

*Gallatin County*

Bozeman Pass quadrangle: Roberts, A. E. 00964

Fort Ellis quadrangle: Roberts, A. E. 00962

Little Belt Mountains quadrangle: Weed, W. H. 01266

Livingston quadrangle: Iddings, J. P. 00552

Livingston-Trail Creek field: Calvert, W. R. 00161



**Montana***Gallatin County*

Livingston-Trail Creek field: Roberts, A. E. 00965

Maxey Ridge quadrangle: Roberts, A. E. 00961

Mystic Lake quadrangle: Roberts, A. E. 00963

Three Forks quadrangle: Peale, A. C. 00872

*Garfield County*

Mosby dome: Johnson, W. D., Jr. 00579

*Geologic work on coal*

Summary, 1907: Campbell, M. R. 00173

*Girard field, northern part*

Richland County: Prichard, G. E. 00911

*Glacier County*

Blackfoot-Valier field: Stebinger, Eugene. 01094

*Glendive field*

Dawson County: Leonard, A. G. 00651

Dawson, Prairie, and Wibaux Counties: Hance, J. H. 00481

*Golden Valley County*

General: Ellis, A. J. 00362

*Granite County*

Tertiary lake beds: Pardee, J. T. 00813

*Great Falls field*

Cascade, Judith Basin, and Meagher Counties: Fisher, C. A. 00411

Cascade, Judith Basin, and Meagher Counties: Fisher, C. A. 00412

Hound Creek district, Cascade and Meagher Counties: Barnett, V. H. 00067

Portage quadrangle, Cascade County: Lemke, R. W. 00648

*Hathaway quadrangle*

Custer and Rosebud Counties: Smith, J. F., Jr. 01037

*Hay Creek quadrangle*

Roosevelt County: Colton, R. B. 00256

*Hill County*

Boxelder quadrangle: Lindvall, R. M. 00678

Centennial Mountain quadrangle: Stewart, D. B. 01095

Laredo quadrangle: Pecora, W. T. 00875

Lower Marias River area: Smith, J. F., Jr. 01038

Milk River field: Pepperberg, L. J. 00876

Milk River field: Pepperberg, L. J. 00889

Milk River field: Pierce, W. G. 00896

Shambo quadrangle: Kerr, J. H. 00604

Warrick quadrangle: Pecora, W. T. 00874

*Hoppers quadrangle*

Park County: Roberts, A. E. 00959

*Jefferson County*

Three Forks quadrangle: Peale, A. C. 00872

*Judith Basin County*

Fort Benton quadrangle: Weed, W. H. 01265

Great Falls field: Fisher, C. A. 00409

Great Falls field: Fisher, C. A. 00411

Great Falls field: Fisher, C. A. 00412

Lewistown field: Calvert, W. R. 00159

Lewistown field: Calvert, W. R. 00179

Little Belt Mountains quadrangle: Weed, W. H. 01266

**Montana***Kahle quadrangle, south half*

Roosevelt and Daniels Counties: Colton, R. B. 00288

*Laredo quadrangle*

Hill and Chouteau Counties: Pecora, W. T. 00875

*Larslan quadrangle, south half*

Valley and Daniels Counties: Colton, R. B. 00288

*Lewistown field*

Fergus, Judith Basin, and Wheatland Counties: Calvert, W. R. 00159

Fergus, Judith Basin, and Wheatland Counties: Calvert, W. R. 00179

*Liberty County*

General: Pierce, W. G. 00896

Lower Marias River area: Smith, J. F., Jr. 01038

*Little Belt Mountains quadrangle*

Cascade, Gallatin, Judith Basin, Meagher, Park, Sweet Grass, and Wheatland Counties: Weed, W. H. 01266

*Little Rocky Mountains*

Blaine and Phillips Counties: Knechtel, M. M. 00616

*Little Sheep Mountain field*

Custer, Prairie, and Rosebud Counties: Rogers, G. S. 00968

*Livingston quadrangle*

Gallatin and Park Counties: Iddings, J. P. 00552

Park County: Roberts, A. E. 00960

*Livingston-Trail Creek field*

Bozeman Pass quadrangle, Gallatin and Park Counties: Roberts, A. E. 00964

Brisban quadrangle, Park County: Roberts, A. E. 00957

Chimney Rock quadrangle, Park County:

Roberts, A. E. 00958

Fort Ellis quadrangle, Gallatin County:

Roberts, A. E. 00962

Gallatin and Park Counties: Roberts, A. E. 00965

Gallatin, Park, and Sweetgrass Counties:

Calvert, W. R. 00161

Hoppers quadrangle, Park County: Roberts, A. E. 00959

Livingston quadrangle: Iddings, J. P. 00552

Livingston quadrangle, Park County:

Roberts, A. E. 00960

Maxey Ridge quadrangle, Gallatin and Park Counties: Roberts, A. E. 00961

Mystic Lake quadrangle, Gallatin and Park Counties: Roberts, A. E. 00963

*Lloyd quadrangle*

Blaine County: Schmidt, R. G. 00987

*Lower Marias River area*

Chouteau, Hill, and Liberty Counties: Smith, J. F., Jr. 01038

*Lundville quadrangle, south half*

Roosevelt and Daniels Counties: Colton, R. B. 00288

*Maddux quadrangle*

Blaine County: Bryant, B. H. 00132

**Montana—Continued***Madison County*

Basin Creek, Ruby River: Klepper, M. R. 00611

Beaverhead National Forest: Klepper, M. R. 00611

Three Forks quadrangle: Peale, A. C. 00872

*Maxey Ridge quadrangle*

Gallatin and Park Counties: Roberts, A. E. 00961

*McCone County*

Chelsea quadrangle: Colton, R. B. 00254

Fort Peck Indian Reservation: Smith, C. D. 01027

General: Collier, A. J. 00246

Oswego quadrangle: Colton, R. B. 00289

Poplar quadrangle: Colton, R. B. 00257

Wolf Point quadrangle: Colton, R. B. 00251

*Meagher County*

Crazy Mountains field: Stone, R. W. 01106

Great Falls field: Fisher, C. A. 00409

Great Falls field: Fisher, C. A. 00411

Great Falls field: Fisher, C. A. 00412

Great Falls field, Hound Creek district:  
Barnett, V. H. 00067

Little Belt Mountains quadrangle: Weed, W. H. 01266

*Medicine Lake area*

Sheridan County: Witkind, I. J. 01223

*Miles City field*

Custer County: Collier, A. J. 00247

Custer County: Leonard, A. G. 00651

*Milk River field*

Blaine and Hill Counties: Pepperberg, L. J. 00876

Blaine and Hill Counties: Pepperberg, L. J. 00889

Hill County: Pierce, W. G. 00896

*Missoula County*

Tertiary lake beds: Pardee, J. T. 00813

*Mizpah field*

Custer County: Parker, F. S. 00865

*Montaqua quadrangle*

Carbon and Stillwater Counties: Patterson, E. D. 00868

*Moorehead field*

Big Horn, Rosebud and Powder River

Counties: Bryson, R. P. 00134

*Mosby dome*

Petroleum and Garfield Counties: Johnson, W. D., Jr. 00579

*Musselshell County*

Bull Mountain field: Ellis, A. J. 00362

Bull Mountain field: Woolsey, L. H. 01256

Bull Mountain field: Woolsey, L. H. 01257

Bull Mountain field, central part: Richards, R. W. 00948

Bull Mountain field, eastern part: Lupton, C. T. 00697

General: Bowen, C. F. 00111

*Mystic Lake quadrangle*

Gallatin and Park Counties: Roberts, A. E. 00963

**Montana***Oswego quadrangle*

Valley, Roosevelt, and McCone Counties:  
Colton, R. B. 00289

*Otter Creek quadrangle*

Sheridan County: Colton, R. B. 00252

*Park County*

Bozeman Pass quadrangle: Roberts, A. E. 00964

Brisbin quadrangle: Roberts, A. E. 00957

Chimney Rock quadrangle: Roberts, A. E. 00958

Crazy Mountains field: Stone, R. W. 01106

Electric field: Calvert, W. R. 00162

Hoppers quadrangle: Roberts, A. E. 00959

Little Belt Mountains quadrangle: Weed, W. H. 01266

Livingston quadrangle: Iddings, J. P. 00552

Livingston quadrangle: Roberts, A. E. 00960

Livingston-Trail Creek field: Calvert, W. R. 00161

Livingston-Trail Creek field: Roberts, A. E. 00965

Maxey Ridge quadrangle: Roberts, A. E. 00961

Mystic Lake quadrangle: Roberts, A. E. 00963

*Petroleum County*

General: Bowen, C. F. 00111

Mosby dome: Johnson, W. D., Jr. 00579

*Phillips County*

Little Rocky Mountains: Knechtel, M. M. 00616

*Pine Ridge field*

Big Horn and Yellowstone Counties: Rogers, G. S. 00969

*Plentywood field*

Sheridan County: Bauer, C. M. 00073

*Police Creek quadrangle, south half*

Roosevelt and Daniels Counties: Colton, R. B. 00288

*Pondera County*

Blackfeet-Valier field: Stebinger, Eugene. 01094

*Poplar quadrangle*

Roosevelt, Richland, and McCone Counties:  
Colton, R. B. 00257

*Porcupine Valley quadrangle*

Valley County: Colton, R. B. 00258

*Portage quadrangle*

Cascade quadrangle: Lemke, R. W. 00648

*Powder River County*

Ashland field: Bass, N. W. 00069

Birney-Broadus field: Warren, W. C. 01202

Black Hills region, geologic and structure

contour map: Mapel, W. J. 00726

Coalwood field: Bryson, R. P. 00133

Custer National Forest: Wegemann, C. H. 01278

Moorhead field: Bryson, R. P. 00134

Stripping coal: Brown, Andrew. 00130

*Powell County*

Tertiary lake beds: Pardee, J. T. 00813

*Prairie County*

Glendive field: Hance, J. H. 00481

**Montana***Prairie County*

Little Sheep Mountain field: Rogers, G. S. 00968

Terry field: Herald, F. A. 00515

Terry field: Leonard, A. G. 00651

*Rapids quadrangle*

Carbon and Stillwater Counties: Wanek, A. A. 01198

*Rattlesnake quadrangle*

Blaine County: Hearn, B. C. 00510

*Ravalli County*

Tertiary lake beds: Pardee, J. T. 00813

*Red Lodge field*

Carbon County: Calvert, W. R. 00163

Carbon County: Darton, N. H. 00310

Carbon County: Eldridge, G. H. 00361

Carbon County: Fisher, C. A. 00408

Carbon County: Knappen, R. S. 00613

Carbon County: Washburne, C. W. 01204

Carbon County: Woodruff, E. G. 01241

Castagne quadrangle, Carbon County: Smith, H. L. 01035

Cooney Reservoir quadrangle, Carbon and Stillwater Counties: Wanek, A. A. 01197

Montaqua quadrangle, Carbon and Stillwater Counties: Patterson, E. D. 00868

Rapids quadrangle, Carbon and Stillwater

Counties: Wanek, A. A. 01198

Roberts quadrangle, Carbon County: Zeller, H. D. 01299

*Resources*

Summary: Combo, J. X. 00262

*Richey-Lambert field*

Richland and Dawson Counties: Parker, F. S. 00864

*Richland County*

Brockton quadrangle: Colton, R. B. 00253

Fort Peck Indian Reservation: Smith, C. D. 01027

Girard field, northern part: Prichard, G. E. 00911

Poplar quadrangle: Colton, R. B. 00257

Richey-Lambert field: Parker, F. S. 00864

Sidney field: Stebinger, Eugene. 01093

Stripping coal: Culbertson, W. C. 00276

Wibaux area, stripping coal: May, P. R. 00756

*Roberts quadrangle*

Carbon County: Zeller, H. D. 01299

*Roosevelt County*

Brockton quadrangle: Colton, R. B. 00253

Chelsea quadrangle: Colton, R. B. 00254

Culbertson field: Beekly, A. L. 00082

Cuskers quadrangle: Colton, R. B. 00255

Fort Peck Indian Reservation: Smith, C. D. 01027

Hay Creek quadrangle: Colton, R. B. 00256

Oswego quadrangle: Colton, R. B. 00289

Poplar quadrangle: Colton, R. B. 00257

Smoke Creek area: Witkind, I. J. 01223

Todd Lakes quadrangle: Colton, R. B. 00260

Tule Valley quadrangle: Colton, R. B. 00261

West Fork, Police Creek, Kahle, and

Lundville quadrangles, south half: Colton, R. B. 00288

**Montana***Roosevelt County*

Wolf Point quadrangle: Colton, R. B. 00251

*Rosebud County*

Ashland field: Bass, N. W. 00069

Birney-Broadus field: Warren, W. C. 01202

Cartersville and Hathaway quadrangles:

Smith, J. F., Jr. 01037

Custer National Forest: Wegemann, C. H. 01278

Forsyth field: Dobbin, C. E. 00348

Little Sheep Mountain field: Rogers, G. S. 00968

Moorhead field: Bryson, R. P. 00134

Rosebud field: Leonard, A. G. 00651

Rosebud field: Pierce, W. G. 00894

Rosebud field, geology and ground-water resources: Renick, B. C. 00934

Sheridan field, northward extension: Baker, A. A. 00045

Stripping coal: Kepferle, R. C. 00603

*Rosebud field*

Rosebud and Custer Counties: Pierce, W. G. 00894

Rosebud County: Leonard, A. G. 00651

Rosebud County, geology and ground-water resources: Renick, B. C. 00934

*Scobey field*

Daniels County: Bauer, C. M. 00073

Valley, Daniels, and Sheridan Counties:

Collier, A. J. 00245

*Sentinel Butte field*

Wibaux County: Leonard, A. G. 00653

*Shambo quadrangle*

Hill and Blaine Counties: Kerr, J. H. 00604

*Sheridan County*

Culbertson field: Beekly, A. L. 00082

Fort Peck Indian Reservation: Smith, C. D. 01027

Medicine Lake area: Witkind, I. J. 01223

Otter Creek quadrangle: Colton, R. B. 00252

Plentywood field: Bauer, C. M. 00073

Scobey field: Collier, A. J. 00245

*Sheridan field, northward extension*

Big Horn and Rosebud Counties: Baker, A. A. 00045

*Sidney field*

Dawson, Richland, and Wibaux Counties:

Stebinger, Eugene. 01093

*Silver Bow County*

Tertiary lake beds: Pardee, J. T. 00813

*Smoke Creek area*

Roosevelt County: Witkind, I. J. 01223

*Spring Creek quadrangle*

Valley County: Colton, R. B. 00259

*Stillwater County*

Judith River Formation: Knappen, R. S. 00613

Upper Stillwater basin: Calvert, W. R. 00163

*Stratigraphy, coal-bearing rocks*

1905: Leonard, A. G. 00650

*Stripping coal*

Custer and Powder River Counties: Brown, Andrew. 00130

**Montana—Continued***Stripping coal*

Richland and Dawson Counties: Culbertson, W. C. 00276

Rosebud County: Kepferle, R. C. 00603

Wibaux area, Dawson, Richland, and Wibaux Counties: May, P. R. 00756

*Sweet Grass County*

Little Belt Mountains quadrangle: Weed, W. H. 01266

*Sweetgrass County*

Livingston-Trail Creek field: Calvert, W. R. 00161

*Terry field*

Custer, Fallon, Prairie, and Wibaux Counties: Herald, F. A. 00515

Prairie County: Leonard, A. G. 00651

*Tertiary lake beds*

Deer Lodge, Granite, Missoula, Powell, Ravalli, and Silver Bow Counties: Pardee, J. T. 00813

*Three Forks quadrangle*

Gallatin, Jefferson, and Madison Counties: Peale, A. C. 00872

*Todd Lakes quadrangle*

Valley and Roosevelt Counties: Colton, R. B. 00260

*Toole County*

Blackfoot-Valier field: Stebinger, Eugene. 01094

*Treasure County*

Forsyth field: Dobbin, C. E. 00348

General: Hall, G. M. 00480

Tullock Creek field: Rogers, G. S. 01050

*Tule Valley quadrangle*

Roosevelt County: Colton, R. B. 00261

*Tullock Creek field*

Big Horn and Treasure Counties: Rogers, G. S. 01050

*Upper Stillwater basin*

Stillwater and Carbon Counties: Calvert, W. R. 00163

*Uranium-bearing coal*

Carter County: Denson, N. M. 00334

Carter County: Denson, N. M. 00375

Carter County, Ekalaka field: Gill, J. R. 00442

Distribution, thickness, analyses: Denson, N. M. 00333

General: Denson, N. M. 00376

General: Vine, J. D. 01178

Western Counties: Hail, W. J., Jr. 00471

*Valley County*

Baylor, Larслан, and West Fork quadrangles, south half: Colton, R. B. 00288

Fort Peck Indian Reservation: Smith, C. D. 01027

Oswego quadrangle: Colton, R. B. 00289

Porcupine Valley quadrangle: Colton, R. B. 00258

Scobey field: Collier, A. J. 00245

Spring Creek quadrangle: Colton, R. B. 00259

Todd Lakes quadrangle: Colton, R. B. 00260

**Montana***Warrick quadrangle*

Hill, Chouteau, and Blaine Counties: Pecora, W. T. 00874

*West Fork quadrangle, south half*

Valley, Roosevelt, and Daniels Counties: Colton, R. B. 00288

*Wheatland County*

Crazy Mountains field: Stone, R. W. 01106

Lewistown field: Calvert, W. R. 00159

Lewistown field: Calvert, W. R. 00179

Little Belt Mountains quadrangle: Weed, W. H. 01266

*Wibaux area, stripping coal*

Dawson, Richland and Wibaux Counties: May, P. R. 00756

*Wibaux County*

Glendive field: Hance, J. H. 00481

Sentinel Butte field: Leonard, A. G. 00653

Sidney field: Stebinger, Eugene. 01093

Terry field: Herald, F. A. 00515

Wibaux area, stripping coal: May, P. R. 00756

*Wolf Point quadrangle*

McCone and Roosevelt Counties: Colton, R. B. 00251

*Yellowstone County*

Bull Mountain field: Hall, G. M. 00480

Bull Mountain field: Woolsey, L. H. 01256

Bull Mountain field: Woolsey, L. H. 01257

Bull Mountain field, central part: Richards, R. W. 00948

Bull Mountain field, eastern part: Lupton, C. T. 00697

Pine Ridge field: Rogers, G. S. 00969

**Nebraska***Dakota County*

Dakota Formation: Burchard, E. F. 00137

Elk Point quadrangle: Todd, J. E. 01132

*Dixon County*

Elk Point quadrangle: Todd, J. E. 01132

*Elk Point quadrangle*

Dakota and Dixon Counties: Todd, J. E. 01132

**Nevada***Coal fields*

Summary, 1900: Storrs, L. S. 01109

*Coaldale field*

Esmeralda County: Hance, J. H. 00482

Esmeralda County: Spurr, J. E. 01082

*Coaldale quadrangle*

Esmeralda County: Ferguson, H. G. 00399

*Elko County*

Goose Creek district, uranium-bearing coal: Mapel, W. J. 00723

*Esmeralda County*

Coaldale field: Hance, J. H. 00482

Coaldale field: Spurr, J. E. 01082

Coaldale quadrangle: Ferguson, H. G. 00399

*Uranium-bearing coal*

Elko County, Goose Creek district: Mapel, W. J. 00723

General: Moore, G. W. 00780

**New Mexico***Barker Dome-Fruitland area*

San Juan County: Hayes, P. T. 00508

**New Mexico***Bernalillo County*

Laguna 4 quadrangle, eastern part: Hemphill, W. R. 00511

Mount Taylor field: Hunt, C. B. 00542

Tijeras field: Lee, W. T. 00637

*Brilliant quadrangle*

Colfax County: Lee, W. T. 00640

*Carthage field*

Socorro County: Gardner, J. H. 00433

*Casa Grande quadrangle*

Colfax County: Pillmore, C. L. 00898

*Cerrillos field*

Santa Fe County: Gardner, J. H. 00432

Santa Fe County: Lee, W. T. 00639

*Chaco Canyon 4 quadrangle*

McKinley County: Kover, A. N. 00629

McKinley County: Kover, A. N. 00630

*Clay associated with coal*

San Juan basin, western part: Shaler, M. K. 01003

*Coal fields*

Summary, 1950: Read, C. B. 00928

Summary, 1900: Storrs, L. S. 01109

*Colfax County*

Casa Grande quadrangle: Pillmore, C. L. 00898

Koehler quadrangle: Wood, G. H., Jr. 01250

Raton field: Lee, W. T. 00641

Raton field: Lee, W. T. 00686

Raton field, southwestern part: Wanek, A. A. 01199

Raton-Brilliant-Koehler quadrangles: Lee, W. T. 00640

*Datil Mountain field*

Socorro County: Winchester, D. E. 01218

*Engle field*

Sierra County: Lee, W. T. 00634

*Fort Stanton Reservation*

Lincoln County: Campbell, M. R. 00191

*Fruitland Formation, coal in, Btu values*

San Juan basin: Hinds, J. S. 00568

*Gallup field*

McKinley and San Juan Counties: Gregory, H. E. 00455

McKinley County: Schrader, F. C. 00991

McKinley County: Shaler, M. K. 01002

*Gallup-Zuni field*

McKinley and Valencia Counties: Sears, J. D. 00998

*Gasbuggy 1 core*

Rio Arriba County: Fassett, J. E. 00395

*Grants 4 quadrangle*

Valencia County: Knox, A. S. 00619

*Grants 1 quadrangle, eastern part*

McKinley and Valencia Counties: Knox, A. S. 00688

*Johnson Trading Post quadrangle*

Sandoval County: Hinds, J. S. 00526

*Kirtland quadrangle*

San Juan County: Beaumont, E. C. 00080

*Koehler quadrangle*

Colfax County: Lee, W. T. 00640

Colfax County: Wood, G. H., Jr. 01250

**New Mexico***La Ventana-Chacra Mesa field*

McKinley, Sandoval, and San Juan Counties: Dane, C. H. 00285

*Laguna 2 quadrangle*

McKinley, Sandoval, and Valencia Counties: Hackman, R. J. 00464

*Laguna 4 quadrangle, eastern part*

Bernalillo County: Hemphill, W. R. 00511

*Lincoln County*

Fort Stanton Reservation: Campbell, M. R. 00191

Sierra Blanca field: Campbell, M. R. 00191

Sierra Blanca field: Fisher, C. A. 00406

Sierra Blanca field: Wegemann, C. H. 01281

*McKinley County*

Chaco Canyon 4 quadrangle: Kover, A. N. 00629

Chaco Canyon 3 quadrangle: Kover, A. N. 00630

Gallup field: Gregory, H. E. 00455

Gallup field: Schrader, F. C. 00991

Gallup field: Shaler, M. K. 01002

Gallup-Zuni field: Sears, J. D. 00998

Grants 1 quadrangle, eastern part: Knox, A. S. 00688

La Ventana-Chacra Mesa field: Dane, C. H. 00285

Laguna 2 quadrangle: Hackman, R. J. 00464

Mount Taylor field: Hunt, C. B. 00542

Naschitti quadrangle: O'Sullivan, R. B. 00797

San Juan basin, eastern part: Gardner, J. H. 00434

San Juan basin, eastern part: Gardner, J. H. 00467

San Juan basin, southern part: Gardner, J. H. 00430

San Juan basin, southern part: Sears, J. D. 01350

*Mesa Portales quadrangle*

Sandoval County: Fassett, J. E. 00394

*Mount Taylor field*

Bernalillo, McKinley, Sandoval, and Valencia Counties: Hunt, C. B. 00542

Grants 1 quadrangle, eastern part: Knox, A. S. 00688

Grants 4 quadrangle, Valencia County: Knox, A. S. 00619

Laguna 2 quadrangle, McKinley, Sandoval and Valencia Counties: Hackman, R. J. 00464

*Naschitti quadrangle*

San Juan and McKinley Counties: O'Sullivan, R. B. 00797

*Omara field*

Santa Fe County: Gardner, J. H. 00432

*Otero County*

Sierra Blanca field: Wegemann, C. H. 01281

*Pecos River field*

San Miguel County: Gardner, J. H. 00432

*Rank of coal, San Juan basin*

Increase with depth: Hinds, J. S. 00568

*Raton field*

Casa Grande quadrangle, Colfax County: Pillmore, C. L. 00898

**New Mexico—Continued****Raton field**

- Colfax County: Lee, W. T. 00641  
 Colfax County: Lee, W. T. 00686  
 Koehler quadrangle, Colfax County: Wood, G. H., Jr. 01250  
 Raton-Brilliant-Koehler quadrangles, Colfax County: Lee, W. T. 00640  
 Southwestern part, Colfax County: Wanek, A. A. 01199

**Raton quadrangle**

- Colfax County: Lee, W. T. 00640

**Resources**

- Summary: Read, C. B. 00928

**Rio Arriba County**

- Gasbuggy 1 core: Fassett, J. E. 00395  
 San Juan basin, northeastern part: Gardner, J. H. 00431

**San Juan basin**

- Barker Dome-Fruitland area, San Juan County: Hayes, P. T. 00508  
 Chaco Canyon 4 quadrangle, McKinley County: Kover, A. N. 00629  
 Chaco Canyon 3 quadrangle, McKinley County: Kover, A. N. 00630  
 Fruitland Formation, coal in, Btu values: Hinds, J. S. 00568  
 Grants 1 quadrangle, eastern part: Knox, A. S. 00688  
 Grants 4 quadrangle, Valencia County: Knox, A. S. 00619  
 Johnson Trading Post quadrangle, Sandoval County: Hinds, J. S. 00526  
 Kirtland quadrangle, San Juan County: Beaumont, E. C. 00080  
 Laguna 2 quadrangle, McKinley, Sandoval and Valencia Counties: Hackman, R. J. 00464  
 McKinley and San Juan Counties: Gregory, H. E. 00455  
 Mesa Portales quadrangle, Sandoval County: Fassett, J. E. 00394  
 Naschitti quadrangle, San Juan and McKinley Counties: O'Sullivan, R. B. 00797  
 Rank of coal, increase with depth: Hinds, J. S. 00568  
 Rio Arriba County, Gasbuggy 1 core: Fassett, J. E. 00395  
 Ship Rock and Hogback quadrangles, San Juan County: Beaumont, E. C. 00078  
 Toadlena quadrangle, San Juan County: Ziegler, D. L. 01304  
 Upper Cretaceous, subsurface geology: Fassett, J. E. 00393
- San Juan basin, central part**  
 San Juan County: Bauer, C. M. 00076
- San Juan basin, eastern part**  
 McKinley, Sandoval, and San Juan Counties: Dane, C. H. 00285  
 McKinley, Sandoval, and Valencia Counties: Gardner, J. H. 00434  
 Sandoval and McKinley Counties: Gardner, J. H. 00467
- San Juan basin, northeastern part**  
 Rio Arriba County: Gardner, J. H. 00431

**New Mexico****San Juan basin, southern part**

- Bernalillo, McKinley, Sandoval, and Valencia Counties: Hunt, C. B. 00542  
 McKinley and Valencia Counties: Gardner, J. H. 00430  
 McKinley County: Sears, J. D. 01350

**San Juan basin, western part**

- Clay associated with coal: Shaler, M. K. 01003  
 McKinley and San Juan Counties: Schrader, F. C. 00991  
 McKinley and San Juan Counties: Shaler, M. K. 01002

**San Juan County**

- Barker Dome-Fruitland area: Hayes, P. T. 00508  
 Gallup field: Gregory, H. E. 00455  
 Kirtland quadrangle: Beaumont, E. C. 00080  
 La Ventana-Chacra Mesa field: Dane, C. H. 00285  
 Naschitti quadrangle: O'Sullivan, R. B. 00797  
 San Juan basin, central part: Bauer, C. M. 00076  
 San Juan basin, western part: Schrader, F. C. 00991  
 San Juan basin, western part: Shaler, M. K. 01002  
 Ship Rock and Hogback quadrangles: Beaumont, E. C. 00078  
 Toadlena quadrangle: Ziegler, D. L. 01304

**San Miguel County**

- Pecos River field: Gardner, J. H. 00432

**Sandoval County**

- Johnson Trading Post quadrangle: Hinds, J. S. 00526  
 La Ventana-Chacra Mesa field: Dane, C. H. 00285  
 La Ventana Mesa area, uranium-bearing coal: Bachman, G. O. 00044  
 Laguna 2 quadrangle: Hackman, R. J. 00464  
 Mesa Portales quadrangle: Fassett, J. E. 00394  
 Mount Taylor field: Hunt, C. B. 00542  
 San Juan basin, eastern part: Gardner, J. H. 00434  
 San Juan basin, eastern part: Gardner, J. H. 00467  
 Una del Gato field: Campbell, M. R. 00205

**Santa Fe County**

- Cerrillos field: Gardner, J. H. 00432  
 Cerrillos field: Lee, W. T. 00639  
 Omara field: Gardner, J. H. 00432
- Ship Rock and Hogback quadrangles**  
 San Juan County: Beaumont, E. C. 00078

**Sierra Blanca field**

- Lincoln and Otero Counties: Wegemann, C. H. 01281  
 Lincoln County: Campbell, M. R. 00191  
 Lincoln County: Fisher, C. A. 00406

**Sierra County**

- Engle field: Lee, W. T. 00634

**Socorro County**

- Carthage field: Gardner, J. H. 00433

**New Mexico***Socorro County*

Datil Mountain field: Winchester, D. E. 01218

*Tijeras field*

Bernalillo County: Lee, W. T. 00637

*Toadlena quadrangle*

San Juan County: Ziegler, D. L. 01304

*Una del Gato field*

Sandoval County: Campbell, M. R. 00205

*Uranium-bearing coal*

Sandoval County, La Ventana Mesa area:  
Bachman, G. O. 00044

*Valencia County*

Gallup-Zuni field: Sears, J. D. 00998

Grants 4 quadrangle: Knox, A. S. 00619

Grants 1 quadrangle, eastern part: Knox, A. S. 00688

Laguna 2 quadrangle: Hackman, R. J. 00464

Mount Taylor field: Hunt, C. B. 00542

San Juan basin, eastern part: Gardner, J. H. 00434

San Juan basin, southern part: Gardner, J. H. 00430

*Zuni Indian Reservation*

McKinley and Valencia Counties: Sears, J. D. 00998

**New York***Southeastern part*

Peat, distribution, type, resources: Cameron, C. C. 01321

**North Carolina***Chatham County*

Deep River field: Reinemund, J. A. 00931

Deep River field: Reinemund, J. A. 01055

*Chatham, Lee, and Moore Counties*

Deep River field: Woodworth, J. B. 01359

*Dan River field*

Rockingham and Stokes Counties: Stone, R. W. 01107

Rockingham and Stokes Counties:

Woodworth, J. B. 01359

*Deep River field*

Chatham, Lee, and Moore Counties:

Reinemund, J. A. 00931

Chatham, Lee, and Moore Counties:

Reinemund, J. A. 01055

Chatham, Lee, and Moore Counties:

Woodworth, J. B. 01359

*Lee County*

Deep River field: Reinemund, J. A. 00931

Deep River field: Reinemund, J. A. 01055

*Moore County*

Deep River field: Reinemund, J. A. 00931

Deep River field: Reinemund, J. A. 01055

*Peat*

Dismal Swamp: Osbon, C. C. 00791

*Rockingham and Stokes Counties*

Dan River field: Woodworth, J. B. 01359

*Rockingham County*

Dan River field: Stone, R. W. 01107

*Stokes County*

Dan River field: Stone, R. W. 01107

**North Dakota***Adams County*

Cannonball River field: Lloyd, E. R. 00683

**North Dakota***Beulah, Hazen, and Medicine Butte quadrangles*

Mercer County: Benson, W. E. B. 00085

Mercer County: Benson, W. E. B. 00086

*Billings County*

Bullion Butte area, uranium-bearing coal:

Moore, G. W. 00779

Geology and ground-water resources:

Simpson, H. E. 01022

Marmarth field: Hares, C. J. 00489

Sentinel Butte field: Leonard, A. G. 00653

Uranium-bearing coal: Denson, N. M. 00334

*Billings, Stark, and Slope Counties*

Uranium-bearing coal: Denson, N. M. 00375

*Bismarck quadrangle*

Burleigh, Emmons, Morton, and Oliver

Counties: Leonard, A. G. 00652

*Bottineau County*

Souris River area: Lemke, R. W. 00647

*Bowbells quadrangle*

Burke, Renville, and Ward Counties: Lemke,

R. W. 00649

*Bowman County*

Marmarth field: Hares, C. J. 00489

Stripping coal: Kepferle, R. C. 00691

Uranium-bearing coal: Denson, N. M. 00334

Uranium-bearing coal: Zeller, H. D. 01303

*Broncho and Golden Valley quadrangles*

Dunn and Mercer Counties: Benson, W. E.

B. 00085

Dunn and Mercer Counties: Benson, W. E.

B. 00086

*Bullion Butte area, Billings County'*

Uranium-bearing coal: Moore, G. W. 00779

*Burke County*

Bowbells quadrangle: Lemke, R. W. 00649

Portal quadrangle: Townsend, R. C. 01135

Souris River area: Lemke, R. W. 00647

*Burleigh County*

Bismarck quadrangle: Leonard, A. G. 00652

Geology and ground-water resources:

Simpson, H. E. 01022

Washburn field: Smith, C. D. 01025

*Cannonball River field*

Morton, Adams, and Hettinger Counties:

Lloyd, E. R. 00683

*Chalky Buttes area*

Slope County: Moore, G. W. 00778

Slope County, uranium-bearing coal: Moore,

G. W. 00779

*Coal fields*

Summary, 1953: Brant, R. A. 00119

Summary, 1900: Storrs, L. S. 01109

*Crosby quadrangle*

Divide County: Townsend, R. C. 01134

*Divide County*

Crosby quadrangle: Townsend, R. C. 01134

Grenora area: Witkind, I. J. 01223

Noonan quadrangle: Townsend, R. C. 01133

*Dunn County*

Broncho and Golden Valley quadrangles:

Benson, W. E. B. 00085; 00086

Fort Berthold Indian Reservation: Smith, C.

D. 01026

**North Dakota—Continued***Dunn County*

Fort Berthold Indian Reservation, western part: Bauer, C. M. 00075

*Emmons County*

Bismarck quadrangle: Leonard, A. G. 00652

*Fort Berthold Indian Reservation, western part*

Dunn, McKenzie, and Mercer Counties: Bauer, C. M. 00075

Dunn, McKenzie, McLean, Mercer, and

Mountrail Counties: Smith, C. D. 01026

Mountrail, McLean, and Ward Counties:

Pishel, M. A. 00904

*General*

Geology and ground-water resources:

Simpson, H. E. 01022

*Geologic work on coal*

Summary, 1907: Campbell, M. R. 00173

*Glen Ullin quadrangle*

Morton County: Barclay, C. S. V. 01316

*Golden Valley County*

Geology and ground-water resources:

Simpson, H. E. 01022

Marmarth field: Hares, C. J. 00489

Sentinel Butte area, uranium-bearing coal:

Moore, G. W. 00779

Sentinel Butte field: Leonard, A. G. 00653

Uranium-bearing coal: Denson, N. M. 00334

Wibaux area, stripping coal: May, P. R. 00756

*Grant County*

Heart Butte NW quadrangle: Stephens, E. V. 01337

Heart Butte quadrangle: Stephens, E. V.

01338

Lignite in drill holes, description: Smith, H. L. 01336

*Grenora area*

Divide and Williams Counties: Witkind, I. J. 01223

*Heart Butte NW quadrangle*

Morton and Grant Counties: Stephens, E. V. 01337

*Heart Butte quadrangle*

Morton and Grant Counties: Stephens, E. V. 01338

*Hettinger County*

Cannonball River field: Lloyd, E. R. 00683

Geology and ground-water resources:

Simpson, H. E. 01022

Lignite in drill holes, description: Smith, H. L. 01336

*Knife River area*

Dunn, Mercer, and McLean Counties:

Benson, W. E. B. 00085

Dunn, Mercer, and McLean Counties:

Benson, W. E. B. 00086

*Lignite*

Relation to irrigation: Wilder, F. A. 01211

*Marmarth field*

Billings, Bowman, Golden Valley, and Slope Counties: Hares, C. J. 00489

*McHenry County*

Minot region: Andrews, D. A. 00011

Souris River area: Lemke, R. W. 00647

Velva quadrangle: Lemke, R. W. 00646

**North Dakota***McKenzie County*

Fort Berthold Indian Reservation: Smith, C. D. 01026

Fort Berthold Indian Reservation, western part: Bauer, C. M. 00075

Nesson anticline: Collier, A. J. 00243

*McLean County*

Fort Berthold Indian Reservation: Pishel, M. A. 00904

Fort Berthold Indian Reservation: Smith, C. D. 01026

Geology and ground-water resources:

Simpson, H. E. 01022

Minot region: Andrews, D. A. 00011

Souris River area: Lemke, R. W. 00647

Stanton quadrangle: Benson, W. E. B. 00085

Stanton quadrangle: Benson, W. E. B. 00086

Washburn field: Smith, C. D. 01025

*Mercer County*

Broncho, Golden Valley, Beulah, Medicine Butte, Hazen and Stanton quadrangles:

Benson, W. E. B. 00085

Broncho, Golden Valley, Beulah, Medicine Butte, Hazen and Stanton quadrangles:

Benson, W. E. B. 00086

Fort Berthold Indian Reservation: Smith, C. D. 01026

Fort Berthold Indian Reservation, western part: Bauer, C. M. 00075

Minot region: Andrews, D. A. 00011

Square Buttes field: Johnson, W. D., Jr. 00564

Square Buttes field: Johnson, W. D., Jr. 00575

*Minor elements in coal*

Geochemical and geographic distribution:

Deul, Maurice. 01354

*Minot region*

McHenry, McLean, Mercer, Sheridan, and Ward Counties: Andrews, D. A. 00011

*Morton County*

Bismarck quadrangle: Leonard, A. G. 00652

Cannonball River field: Lloyd, E. R. 00683

Geology and ground-water resources:

Simpson, H. E. 01022

Glen Ullin quadrangle: Barclay, C. S. V. 01316

Heart Butte NW quadrangle: Stephens, E. V. 01337

Heart Butte quadrangle: Stephens, E. V. 01338

Lignite in drill holes, description: Smith, H. L. 01336

New Salem field: Hancock, E. T. 00483

New Salem quadrangle: Smith, H. L. 01036

*Mountrail County*

Fort Berthold Indian Reservation: Pishel, M. A. 00904

Fort Berthold Indian Reservation: Smith, C. D. 01026

Nesson anticline: Collier, A. J. 00243

Souris River area: Lemke, R. W. 00647

*Nesson anticline*

Williams, Mountrail, and McKenzie

Counties: Collier, A. J. 00243



**North Dakota***New Salem field*

Morton County: Hancock, E. T. 00483

*New Salem quadrangle*

Morton County: Smith, H. L. 01036

*Noonan quadrangle*

Divide County: Townsend, R. C. 01133

*Oliver County*

Bismarck quadrangle: Leonard, A. G. 00652

Square Buttes field: Johnson, W. D., Jr. 00564

Square Buttes field: Johnson, W. D., Jr. 00575

Washburn field: Smith, C. D. 01025

*Portal quadrangle*

Burke County: Townsend, R. C. 01135

*Renville County*

Bowbells quadrangle: Lemke, R. W. 00649

Souris River area: Lemke, R. W. 00647

*Resources*

Summary: Brant, R. A. 00119

Summary, 1903: Burchard, E. F. 00137

*Sentinel Butte area, Golden Valley County*

Uranium-bearing coal: Moore, G. W. 00779

*Sentinel Butte field*

Billings and Golden Valley Counties:

Leonard, A. G. 00653

*Sheridan County*

Minot region: Andrews, D. A. 00011

Souris River area: Lemke, R. W. 00647

*Sioux County*

Standing Rock Indian Reservation: Calvert, W. R. 01352

Standing Rock Indian Reservation: Denson, N. M. 01353

*Slope County*

Chalky Buttes area: Moore, G. W. 00778

Chalky Buttes area, uranium-bearing coal:

Moore, G. W. 00779

Marmarth field: Hares, C. J. 00489

Stripping coal: Kepferle, R. C. 00691

Uranium-bearing coal: Denson, N. M. 00334

*Souris River area*

Burke, Montrail, Ward, Renville, Bottineau, McHenry, McLean, and Sheridan Counties: Lemke, R. W. 00647

*Southwestern part*

Billings, Bowman, Golden Valley, and Slope Counties: Hares, C. J. 00489

*Square Buttes field*

Oliver and Mercer Counties: Johnson, W. D., Jr. 00564

Oliver and Mercer Counties: Johnson, W. D., Jr. 00575

*Standing Rock Indian Reservation*

Sioux County: Calvert, W. R. 01352

Sioux County: Denson, N. M. 01353

*Stanton quadrangle*

Mercer and McLean Counties: Benson, W. E. B. 00085

Mercer and McLean Counties: Benson, W. E. B. 00086

*Stark County*

Lignite in drill holes, description: Smith, H. L. 01336

*Stratigraphy, coal-bearing rocks*

1905: Leonard, A. G. 00650

**North Dakota***Stripping coal*

Slope and Bowman Counties: Kepferle, R. C. 00691

Wibaux area, Golden Valley County: May, P. R. 00756

*Uranium-bearing coal*

Billings County, Bullion Butte area: Moore, G. W. 00779

Billings, Stark, and Slope Counties: Denson, N. M. 00375

Bowman County: Zeller, H. D. 01303

Chalky Buttes area, Slope County: Moore, G. W. 00778

Distribution, thickness, analyses: Denson, N. M. 00333

General: Denson, N. M. 00376

General: Vine, J. D. 01178

Golden Valley, Billings, Slope, and Bowman Counties: Denson, N. M. 00334

Golden Valley County, Sentinel Butte area: Moore, G. W. 00779

Slope County, Chalky Buttes area: Moore, G. W. 00779

*Velva quadrangle*

McHenry and Ward Counties: Lemke, R. W. 00646

*Ward County*

Bowbells quadrangle: Lemke, R. W. 00649

Fort Berthold Indian Reservation: Pishel, M. A. 00904

Geology and ground-water resources:

Simpson, H. E. 01022

Minot region: Andrews, D. A. 00011

Souris River area: Lemke, R. W. 00647

Velva quadrangle: Lemke, R. W. 00646

*Washburn field*

Burleigh, McLean, and Oliver Counties: Smith, C. D. 01025

*Williams County*

Grenora area: Witkind, I. J. 01223

Nesson anticline: Collier, A. J. 00243

Williston field: Herald, F. A. 00516

*Williston field*

Williams County: Herald, F. A. 00516

**Northern Great Plains province***Minor elements in coal*

Geochemical and geographic distribution:

Zubovic, Peter. 01309

**Northern Interior field***Resources*

Summary, 1900: Lane, A. C. 00632

**Ohio***Analyses*

Representative, 1915: Bownocker, J. A. 00116

*Belmont County*

Pittsburgh (No. 8) bed: Berryhill, H. L., Jr. 00099

Stratigraphy, structure, resources: Berryhill, H. L., Jr. 00100

Woodsfield quadrangle: Condit, D. D. 00287

*Coal fields*

Summary, 1900: White, David. 01294

**Ohio—Continued***Eastern part*

Uranium-bearing coal and associated rocks:  
Welch, S. W. 01287

*Guernsey County*

Summerfield and Woodsfield quadrangles:  
Condit, D. D. 00287

*Huntington quadrangle*

Lawrence County: Campbell, M. R. 00187

*Jefferson County*

Steubenville quadrangle: Griswold, W. T.  
00460

*Kenova quadrangle*

Lawrence County: Phalen, W. C. 00883  
Lawrence County: Phalen, W. C. 00886  
Lawrence County: Phalen, W. C. 00888

*Lawrence County*

Huntington quadrangle: Campbell, M. R.  
00187

Kenova quadrangle: Phalen, W. C. 00883

Kenova quadrangle: Phalen, W. C. 00886

Kenova quadrangle: Phalen, W. C. 00888

*Monroe County*

Summerfield and Woodsfield quadrangles:  
Condit, D. D. 00287

*Noble County*

Summerfield quadrangle: Condit, D. D. 00287

*Pittsburgh (No. 8) bed*

Belmont County: Berryhill, H. L., Jr. 00099

*Resources*

Belmont County: Berryhill, H. L., Jr. 00100  
Summary, 1915: Bownocker, J. A. 00116

*Steubenville quadrangle*

Jefferson County: Griswold, W. T. 00460

*Stratigraphy*

Pennsylvanian rocks, 1890: White, I. C. 01295

*Summerfield quadrangle*

Guernsey, Monroe, and Noble Counties:  
Condit, D. D. 00287

*Woodsfield quadrangle*

Belmont, Guernsey, and Monroe Counties:  
Condit, D. D. 00287

**Oil yield of coal***Rocky Mountain region*

General: Winchester, D. E. 01219

**Oklahoma***Atoka County*

Atoka quadrangle: Taff, J. A. 01121

Coalgate quadrangle: Taff, J. A. 01120

Lehigh district: Hendricks, T. A. 00571

Lehigh district: Knechtel, M. M. 00614

Lehigh district: Knechtel, M. M. 00690

Lehigh district: Taff, J. A. 01140

McAlester district: Hendricks, T. A. 00512

McAlester district: Hendricks, T. A. 00572

McAlester district: Taff, J. A. 01140

*Atoka quadrangle*

Atoka and Coal Counties: Taff, J. A. 01121

*Coal County*

Atoka quadrangle: Taff, J. A. 01121

Coalgate quadrangle: Taff, J. A. 01120

Lehigh district: Hendricks, T. A. 00571

Lehigh district: Knechtel, M. M. 00614

Lehigh district: Knechtel, M. M. 00690

Lehigh district: Taff, J. A. 01140

**Oklahoma***Coal fields*

Summary, 1900: Taff, J. A. 01122

Summary, 1957: Trumbull, J. V. A. 01149

*Coalgate quadrangle*

Atoka, Coal, and Pittsburg Counties: Taff, J.  
A. 01120

*Craig County*

General: Siebenthal, C. E. 01020

*Greenwood quadrangle*

LeFlore County: Haley, B. R. 00478

*Haskell County*

Quinton-Scipio district: Dane, C. H. 00284

Quinton-Scipio district: Dane, C. H. 00299

Stigler-Poteau district: Thom, W. T. 01129

*Henryetta district*

Okmulgee County: Dunham, R. J. 00358

*Howe district*

Latimer and LeFlore Counties: Hendricks, T.  
A. 00573

Latimer and LeFlore Counties: Taff, J. A.  
01115

*Howe-Wilburton district*

Latimer and LeFlore Counties: Hendricks, T.  
A. 00513

*Latimer County*

Howe district: Hendricks, T. A. 00573

Howe-Wilburton district: Hendricks, T. A.  
00513

McAlester district: Hendricks, T. A. 00512

McAlester district: Hendricks, T. A. 00572

McAlester district: Taff, J. A. 01140

Quinton-Scipio district: Dane, C. H. 00284

Quinton-Scipio district: Dane, C. H. 00299

Wilburton district: Hendricks, T. A. 00574

*LeFlore County*

Greenwood quadrangle: Haley, B. R. 00478

Howe district: Hendricks, T. A. 00573

Howe-Wilburton district: Hendricks, T. A.  
00513

Northern part: Knechtel, M. M. 00615

Stigler-Poteau district: Thom, W. T. 01129

*Lehigh district*

Coal, Atoka, and Pittsburg Counties:  
Hendricks, T. A. 00571

Coal, Atoka, and Pittsburg Counties:  
Knechtel, M. M. 00614

Coal, Atoka, and Pittsburg Counties:  
Knechtel, M. M. 00690

Coal, Atoka and Pittsburg Counties: Taff, J.  
A. 01115

Coal, Atoka, and Pittsburg Counties: Taff, J.  
A. 01140

*McAlester district*

Pittsburg, Atoka, and Latimer Counties:  
Hendricks, T. A. 00512

Pittsburg, Atoka, and Latimer Counties:  
Hendricks, T. A. 00572

Pittsburg, Atoka, and Latimer Counties: Taff,  
J. A. 01115

Pittsburg, Atoka, and Latimer Counties: Taff,  
J. A. 01140

*McIntosh County*

Muskogee quadrangle: Taff, J. A. 01124

**Oklahoma***Muskogee County*

Muskogee quadrangle: Taff, J. A. 01124

*Muskogee quadrangle*

McIntosh, Muskogee, Sequoyah, and  
Wagoner Counties: Taff, J. A. 01124

*Muskogee County*

General: Siebenthal, C. E. 01020

*Northeastern part*

Craig, Muskogee, Nowata, Okmulgee,  
Rogers, Tulsa, and Wagoner Counties:  
Siebenthal, C. E. 01020

*Nowata County*

General: Siebenthal, C. E. 01020

*Okmulgee County*

General: Siebenthal, C. E. 01020

Henryetta district: Dunham, R. J. 00358

*Paleontology and paleobotany*

Paleozoic rocks: Taff, J. A. 01140

*Pittsburg County*

Coalgate quadrangle: Taff, J. A. 01120

Lehigh district: Hendricks, T. A. 00571

Lehigh district: Knechtel, M. M. 00614

Lehigh district: Knechtel, M. M. 00690

Lehigh district: Taff, J. A. 01140

McAlester district: Hendricks, T. A. 00512

McAlester district: Hendricks, T. A. 00572

McAlester district: Taff, J. A. 01140

Quinton-Scipio district: Dane, C. H. 00284

Quinton-Scipio district: Dane, C. H. 00299

Stigler-Poteau district: Thom, W. T. 01129

*Progress of work*

Summary, 1904: Taff, J. A. 01123

*Quinton-Scipio district*

Pittsburg, Haskell, and Latimer Counties:  
Dane, C. H. 00284

Pittsburg, Haskell, and Latimer Counties:  
Dane, C. H. 00299

Pittsburg, Haskell, and Latimer Counties:  
Taff, J. A. 01115

*Resources*

Summary: Trumbull, J. V. A. 01149

*Rogers County*

General: Siebenthal, C. E. 01020

*Sequoyah County*

Muskogee quadrangle: Taff, J. A. 01124

*Stigler-Poteau district*

Pittsburg, Haskell, and LeFlore Counties:  
Taff, J. A. 01115

Pittsburg, Haskell, and LeFlore Counties:  
Thom, W. T. 01129

*Tulsa County*

General: Siebenthal, C. E. 01020

*Wagoner County*

General: Siebenthal, C. E. 01020

Muskogee quadrangle: Taff, J. A. 01124

*Wilburton district*

Latimer County: Hendricks, T. A. 00574

Latimer County: Taff, J. A. 01115

**Oregon***Cavitt Creek area*

Roseburg quadrangle, Douglas County:  
Diller, J. S. 00340

*Clatsop County*

Lower Nehalem River area: Diller, J. S. 00339

**Oregon***Coal fields*

Summary, 1955: Mason, R. S. 00751

Summary, 1900: Smith, G. O. 01031

*Columbia County*

Upper Nehalem River area: Diller, J. S. 00339

Upper Nehalem River area: Washburne, C.  
W. 01254

*Coos Bay field*

Coos Bay quadrangle, Coos County: Diller,  
J. S. 00372

Coos County: Diller, J. S. 00344

Coos County: Diller, J. S. 00346

Coos County: Diller, J. S. 00373

Coos County: Duncan, D. C. 00356

Myrtle Point area, Coos County: Baldwin, E.  
M. 00050

*Coos Bay quadrangle*

Coos Bay field, Coos County: Diller, J. S.  
00372

*Coos County*

Coos Bay and Eden Ridge fields: Diller, J. S.  
00344

Coos Bay field: Diller, J. S. 00339

Coos Bay field: Diller, J. S. 00346

Coos Bay field: Diller, J. S. 00373

Coos Bay field: Duncan, D. C. 00356

Coos Bay field: Washburne, C. W. 01254

Coos Bay quadrangle: Diller, J. S. 00372

Eden Ridge field: Leshner, C. E. 00654

Eden Ridge field: Leshner, C. E. 00671

Eden Ridge field, Squaw Basin area:

Wayland, R. G. 01262

Myrtle Point area: Baldwin, E. M. 00050

Port Orford quadrangle: Diller, J. S. 00341

*Curry County*

Eckley area: Diller, J. S. 00344

Port Orford quadrangle: Diller, J. S. 00341

*Douglas County*

Camas Valley area: Diller, J. S. 00344

Cavitt Creek area: Diller, J. S. 00344

Lookingglass area: Diller, J. S. 00344

Riddle quadrangle: Diller, J. S., 00345

Roseburg quadrangle: Diller, J. S. 00340

*Eckley field*

Coos and Curry Counties: Diller, J. S. 00344

Coos and Curry Counties: Diller, J. S. 00341

*Eden Ridge field*

Coos County: Diller, J. S. 00344

Coos County: Leshner, C. E. 00654

Coos County: Leshner, C. E. 00671

Coos County: Wayland, R. G. 01262

*Heceta Head-Acme area*

Lane County: Washburne, C. W. 01254

*Jackson County*

Rogue River field: Diller, J. S. 00343

Rogue River field: Diller, J. S. 00344

*Lane County*

Heceta Head-Acme area: Washburne, C. W.  
01254

*Lincoln County*

Yaquina area: Diller, J. S. 00339

**Oregon—Continued***Lower Nehalem River area*

Clatsop and Tillamook Counties: Diller, J. S. 00339

Tillamook County: Washburne, C. W. 01254

*Marion County*

Waldo Hills area: Diller, J. S. 00339

Waldo Hills area: Washburne, C. W. 01254

*Morrow County*

Willow Creek area: Mendenhall, W. C. 00757

*Myrtle Point area*

Coos County: Baldwin, E. M. 00050

*Port Orford quadrangle*

Coos and Curry Counties: Diller, J. S. 00341

*Resources*

Summary: Mason, R. S. 00751

*Riddle quadrangle*

Douglas County: Diller, J. S., 00345

*Rogue River field*

Jackson County: Diller, J. S. 00343

Jackson County: Diller, J. S. 00344

*Roseburg quadrangle*

Douglas County: Diller, J. S. 00340

*Squaw Basin area*

Coos County: Wayland, R. G. 01262

*Tillamook County*

Lower Nehalem River area: Diller, J. S. 00339

Lower Nehalem River area: Washburne, C. W. 01254

*Upper Nehalem River area*

Columbia County: Diller, J. S. 00339

Columbia County: Washburne, C. W. 01254

*Uranium-bearing coal*

General: Moore, G. W. 00780

*Waldo Hills area*

Marion County: Diller, J. S. 00339

Marion County: Washburne, C. W. 01254

*Willow Creek area*

Morrow County: Mendenhall, W. C. 00757

*Yamhill County*

Yamhill area: Diller, J. S. 00339

Yamhill area: Washburne, C. W. 01254

**Oxygen in coal***Effect of*

General: White, David. 01292

**Pacific Coast***Coal fields*

Summary, 1900: Smith, G. O. 01031

**Paleobotany***Brown coal*

Tertiary age: Kremp, G. O. W. 00687

*Carboniferous basins*

Missouri, southwestern part: White, David. 01289

*Colorado*

Fox Hills Sandstone, Greeley quadrangle,

Weld County: Knowlton, F. H. 00689

*Kentucky, eastern field*

Pennsylvanian rocks: Kosanke, R. M. 00620

Pennsylvanian rocks: Kosanke, R. M. 00621

Pennsylvanian rocks: Kosanke, R. M. 00622

Pennsylvanian rocks: Kosanke, R. M. 00623

Pennsylvanian rocks: Kosanke, R. M. 00624

Pennsylvanian rocks: Kosanke, R. M. 00625

Perry County, Hazard No. 7 coal: Kosanke,

R. M. 00621

**Paleobotany***Kentucky, eastern, and adjoining States*

Pennsylvanian rocks: Kosanke, R. M. 00623

Pennsylvanian rocks: Kosanke, R. M. 00624

*Kentucky, western field*

Pennsylvanian rocks: Kosanke, R. M. 00620

Pennsylvanian rocks: Kosanke, R. M. 00625

*Pennsylvania*

Anthracite, Southern field: White, David.

01291

Forkston coal, Dutch Mountain: Read, C. B.

00927

*United States*

Upper Paleozoic floral zones and floral

provinces: Read, C. B. 00929

*Wood, fossil*

Potomac Formation, Atlantic Coastal Plain:

Knowlton, F. H. 00618

**Paleontology***Arkansas*

Carboniferous rocks: Collier, A. J. 00241

*Insect fauna*

Rhode Island meta-anthracite, Narragansett

basin: Scudder, S. H. 00997

*Kansas, southeastern part*

Upper Carboniferous rocks: Adams, G. I.

00002

*Pennsylvania*

Pocono Formation, Broad Top field: Girty,

G. H. 00444

*Rhode Island*

Insect fauna, Narragansett basin meta-anthracite:

Scudder, S. H. 00997

**Paleontology and paleobotany***Colorado*

Raton Mesa region: Lee, W. T. 00686

*New Mexico*

Raton Mesa region: Lee, W. T. 00686

*Oklahoma*

Paleozoic rocks: Taff, J. A. 01140

**Peat***Appalachian region*

Distribution, type, resources: Cameron, C. C.

01319

*Botanical composition*

Swamp types: Kremp, G. O. W. 00687

*Dismal Swamp*

Virginia and North Carolina: Osbon, C. C.

00791

*Distribution, type, resources*

Appalachian region: Cameron, C. C. 01319

New York, southeastern part: Cameron, C. C.

01321

Pennsylvania, northeastern part: Cameron, C.

C. 01318

West Virginia, Maryland, Pennsylvania:

Cameron, C. C. 01320

*Distribution, use, resources*

United States: Campbell, M. R. 00203

United States: Davis, C. A. 00322

United States: Soper, E. K. 01072

*Maine*

Distribution, use, resources: Bastin, E. S.

00072

**Peat***Maryland*

Distribution, type, resources: Cameron, C. C.  
01320

*New York, southeastern part*

Distribution, type, resources: Cameron, C. C.  
01321

*Origin, distribution*

Commercial value, 1894: Shaler, N. S. 01004

*Pennsylvania*

Distribution, type, resources: Cameron, C. C.  
01320

*Pennsylvania, northeastern part*

Distribution, type, resources: Cameron, C. C.  
01318

*Preparation*

Use as fuel: Davis, C. A. 00321

Use as fuel: Davis, C. A. 00324

*Production*

Statistics, 1906: Campbell, M. R. 00204

Statistics, 1905: Campbell, M. R. 00206

Statistics, 1919: Cottrell, K. W. 00266

Statistics, 1920: Cottrell, K. W. 00267

Statistics, 1921: Cottrell, K. W. 00268

Statistics, 1922: Cottrell, K. W. 00269

Statistics, 1923: Cottrell, K. W. 00270

Statistics, 1908: Davis, C. A. 00323

Statistics, 1909: Davis, C. A. 00325

Statistics, 1910: Davis, C. A. 00326

Statistics, 1911: Davis, C. A. 00327

Statistics, 1912: Davis, C. A. 00328

Statistics, 1913: Davis, C. A. 00329

Statistics, 1914: Davis, C. A. 00330

Statistics, 1904: Hindshaw, H. H. 00527

Statistics, 1917: Osbon, C. C. 00792

Statistics, 1918: Osbon, C. C. 00793

Statistics, 1915: Turp, J. S. 01160

Statistics, 1916: Turp, J. S. 01161

*United States*

Distribution, use, resources: Davis, C. A.  
00322

Distribution, use, resources: Soper, E. K.  
01072

*West Virginia*

Distribution, type, resources: Cameron, C. C.  
01320

**Pennsylvania***Accident quadrangle*

Fayette and Somerset Counties: Martin, G. C.  
00740

*Allegheny, Beaver, and Washington Counties*

Burgettstown quadrangle: Griswold, W. T.  
00460

*Allegheny County*

Brownsville quadrangle: Campbell, M. R.  
00178

Burgettstown quadrangle: Griswold, W. T.  
00459

Burgettstown-Carnegie quadrangles: Shaw, E.  
W. 01070

Carnegie quadrangle: Munn, M. J. 00782

Monongahela quadrangle: Roen, J. B. 00967

New Kensington quadrangle: Richardson, G.  
B. 00953

Sewickley quadrangle: Munn, M. J. 00783

**Pennsylvania***Allegheny County, northwestern part*

Beaver quadrangle: Woolsey, L. H. 01247

Beaver quadrangle: Woolsey, L. H. 01255

*Amity quadrangle*

Washington and Greene Counties: Berryhill,  
H. L., Jr. 00101

Washington and Greene Counties: Clapp, F.  
G. 00290

Washington and Greene Counties: Clapp, F.  
G. 00291

*Anthracite*

Constitution diagrams: Wagner, H. C. 01182

General: Campbell, M. R. 00203

General: Campbell, M. R. 00297

Summary, 1882: Ashburner, C. A. 00021

Summary, 1883-1884: Chance, H. M. 00225

Summary, 1893: Jones, J. H. 00584

Summary, 1900: Stoek, H. H. 01096

Uranium-bearing coal and associated rocks:  
Welch, S. W. 01284

Use of small sizes: Burrows, J. S. 00141

*Anthracite fields*

Orogeny, late Paleozoic: Arndt, H. H. 00017

*Anthracite, Northern field*

Hydrology: Stuart, W. T. 01110

Ransom quadrangle, Lackawanna County:

Kehn, T. M. 00594

Structure, Lackawanna, Luzerne, and Wayne

Counties: Darton, N. H. 00312

*Anthracite region, western part*

Joint pattern: Wood, G. H., Jr. 01227

*Anthracite, Southern field*

Carbon County, Mount Pisgah syncline:

Klemic, Harry. 00610

Coal beds, thickness, extent, physical and

chemical properties: Trexler, J. P. 01139

Coal beds, thickness, extent, physical and

chemical properties: Wood, G. H., Jr.

01237

Klingerstown quadrangle, Northumberland,

Schuylkill and Dauphin Counties: Trexler,

J. P. 01145

Lykens and Tower City quadrangles, Dauphin

and Schuylkill Counties: Wood, G. H., Jr.

01234

Lykens quadrangle, Dauphin, Schuylkill, and

Lebanon Counties: Trexler, J. P. 01146

Minersville and Tremont quadrangles,

northern halves: Wood, G. H., Jr. 01248

Minersville quadrangle, Schuylkill County:

Wood, G. H., Jr. 01238

Minersville, Tremont, Pine Grove, and

Swatara Hill quadrangles, Schuylkill

County: Wood, G. H., Jr. 01233

Pine Grove quadrangle, Schuylkill, Lebanon,

and Berks Counties: Wood, G. H., Jr.

01232

Stratigraphic succession of fossil flora: White,

David. 01291

Stratigraphy, Pennsylvanian rocks: Wood, G.

H., Jr. 01236

Stratigraphy, structure, coal-bearing rocks:

Trexler, J. P. 01139

**Pennsylvania—Continued***Anthracite, Southern field*

Stratigraphy, structure, coal-bearing rocks:

Wood, G. H., Jr. 01237

Swatara Hill quadrangle, Schuylkill and Berks Counties: Wood, G. H., Jr. 01231

Tower City quadrangle, Schuylkill, Dauphin, and Lebanon Counties: Wood, G. H., Jr. 01225

Tremont quadrangle, Schuylkill and Northumberland Counties: Wood, G. H., Jr. 01235

Tremont quadrangle, southern half: Wood, G. H., Jr. 01239

Valley View quadrangle, Schuylkill and Northumberland Counties: Trexler, J. P. 01144

*Anthracite, Western Middle field*

Ashland quadrangle, eastern part: Haley, B. R. 00477

Ashland quadrangle, western part: Haley, B. R. 00476

Delano quadrangle, western part: Maxwell, J. A. 00755

Mount Carmel quadrangle, east-central part: Rothrock, H. E. 00978

Mount Carmel quadrangle, southeastern part: Rothrock, H. E. 00979

Mount Carmel quadrangle, southwestern part: Rothrock, H. E. 00977

Mount Carmel quadrangle, west-central part: Rothrock, H. E. 00976

Shamokin quadrangle, eastern part: Danilchik, Walter. 00300

Shamokin quadrangle, western part: Arndt, H. H. 00016

Shenandoah quadrangle, eastern part: Kehn, T. M. 00596

Shenandoah quadrangle, Schuylkill County: Wood, G. H., Jr. 01226

Shenandoah quadrangle, western part: Danilchik, Walter. 00301

Stratigraphy, Pennsylvanian rocks: Wood, G. H., Jr. 01236

Trevorton quadrangle, southern part: Arndt, H. H. 00018

*Armstrong County*

Elders Ridge quadrangle: Stone, R. W. 01097

Elders Ridge quadrangle: Stone, R. W. 01098

Elders Ridge quadrangle: Stone, R. W. 01101

Foxburg quadrangle: Shaw, E. W. 01068

Foxburg quadrangle: Shaw, E. W. 01069

Kittanning and Rural Valley quadrangles: Butts, Charles. 00145

Kittanning quadrangle: Butts, Charles. 00181

Rural Valley quadrangle: Butts, Charles. 00184

*Ashland quadrangle, eastern part*

Schuylkill and Columbia Counties: Haley, B. R. 00477

*Ashland quadrangle, western part*

Columbia and Schuylkill Counties: Haley, B. R. 00476

**Pennsylvania***Barnesboro quadrangle*

Cambria, Clearfield and Indiana Counties: Campbell, M. R. 00198

*Barnesboro-Patton area*

Cambria County: Burrows, J. S. 00138

*Beaver and Washington Counties*

Steubenville quadrangle: Griswold, W. T. 00460

*Beaver County*

Burgettstown quadrangle: Griswold, W. T. 00459

Burgettstown quadrangle: Shaw, E. W. 01070

Resources: Patterson, E. D. 00867

Sewickley quadrangle: Munn, M. J. 00783

Zelenople quadrangle: Richardson, G. B. 00955

*Beaver County, southern part*

Beaver quadrangle: Woolsey, L. H. 01247

Beaver quadrangle: Woolsey, L. H. 01255

*Beaver quadrangle*

Beaver County, southern part, and Allegheny County, northwestern part: Woolsey, L. H. 01247

Beaver County, southern part, and Allegheny County, northwestern part: Woolsey, L. H. 01255

*Bedford County*

Hollidaysburg quadrangle: Butts, Charles. 00155

*Bedford, Huntington, and Fulton Counties*

Broad Top field, Pocono fauna: Girty, G. H. 00444

*Berks County*

Pine Grove quadrangle: Wood, G. H., Jr. 01232

Swatara Hill quadrangle: Wood, G. H., Jr. 01231

*Blair County*

Ebensburg quadrangle: Butts, Charles. 00143

Hollidaysburg-Huntingdon quadrangles:

Butts, Charles. 00155

Patton quadrangle: Campbell, M. R. 00198

*Boghead coal*

Kiskiminetas River: Thiessen, Reinhardt. 01118

*Broad Top field, Pocono fauna*

Bedford, Huntington, and Fulton Counties: Girty, G. H. 00444

*Brownsville quadrangle*

Allegheny, Fayette, Washington, and Westmoreland Counties: Campbell, M. R. 00178

*Burgettstown quadrangle*

Allegheny, Beaver, and Washington Counties: Griswold, W. T. 00459

Allegheny, Beaver, and Washington Counties: Griswold, W. T. 00460

Allegheny, Beaver, and Washington Counties: Shaw, E. W. 01070

*Butler County*

Butler quadrangle: Richardson, G. B. 00955

Foxburg quadrangle: Shaw, E. W. 01068

Foxburg quadrangle: Shaw, E. W. 01069

Kittanning quadrangle: Butts, Charles. 00145

**Pennsylvania***Butler County*

- Kittanning quadrangle: Butts, Charles. 00181  
 New Kensington quadrangle: Richardson, G. B. 00953  
 Sewickley quadrangle: Munn, M. J. 00783  
 Zelenople quadrangle: Richardson, G. B. 00955

*Butler quadrangle*

- Butler County: Richardson, G. B. 00955

*California quadrangle*

- Washington and Fayette Counties:  
 Schweinfurth, S. P. 01012

*Cambria County*

- Barnesboro-Patton area: Burrows, J. S. 00138  
 Barnesboro-Patton quadrangles: Campbell, M. R. 00198  
 Ebsenburg quadrangle: Butts, Charles. 00143  
 Johnstown quadrangle: Phalen, W. C. 00882  
 Johnstown quadrangle: Phalen, W. C. 00884  
 Johnstown quadrangle: Phalen, W. C. 00887  
 Johnstown quadrangle, clay associated with coal: Phalen, W. C. 00885  
 Wilmore basin: Butts, Charles. 00142  
 Windber quadrangle: Richardson, G. B. 00954

*Cannel coal*

- Mercer County, near Leesburg: Thiessen, Reinhardt. 01118

*Carbon County*

- Mount Pisgah syncline: Klemic, Harry. 00610

*Carmichaels quadrangle*

- Greene County: Kent, B. H. 01327

*Carnegie quadrangle*

- Allegheny and Washington Counties: Munn, M. J. 00782  
 Allegheny and Washington Counties: Shaw, E. W. 01070

*Clarion County*

- Clarion quadrangle: Lines, E. F. 00682  
 Foxburg quadrangle: Shaw, E. W. 01069  
 Foxburg-Clarion quadrangles: Shaw, E. W. 01068  
 Kittanning and Rural Valley quadrangles: Butts, Charles. 00145  
 Kittanning quadrangle: Butts, Charles. 00181  
 Rural Valley quadrangle: Butts, Charles. 00184

*Clarion quadrangle*

- Clarion County: Lines, E. F. 00682  
 Clarion County: Shaw, E. W. 01068  
 Clarion County, clay associated with coal: Lines, E. F. 00681

*Clay associated with coal*

- Clarion quadrangle, Clarion County: Lines, E. F. 00681  
 Johnstown quadrangle, Cambria, Indiana, Somerset, and Westmoreland Counties: Phalen, W. C. 00885

*Claysville quadrangle*

- Washington County: Griswold, W. T. 00460  
 Washington County: Munn, M. J. 00784

*Clearfield County*

- Barnesboro-Patton quadrangles: Campbell, M. R. 00198

**Pennsylvania***Clearfield County*

- Clearfield field: Ashley, G. H. 00029

*Clearfield field*

- Clearfield County: Ashley, G. H. 00029

*Coal fields*

- Summary, 1900: White, David. 01294

*Columbia County*

- Ashland quadrangle, eastern part: Haley, B. R. 00477  
 Ashland quadrangle, western part: Haley, B. R. 00476  
 Mount Carmel quadrangle, east-central part: Rothrock, H. E. 00978  
 Mount Carmel quadrangle, southeastern part: Rothrock, H. E. 00979  
 Mount Carmel quadrangle, west-central part: Rothrock, H. E. 00976

*Connellsville quadrangle*

- Fayette and Westmoreland Counties:  
 Campbell, M. R. 00178

*Dauphin County*

- Klingerstown quadrangle: Trexler, J. P. 01145  
 Lykens and Tower City quadrangles: Wood, G. H., Jr. 01234  
 Lykens quadrangle: Trexler, J. P. 01146  
 Tower City quadrangle: Wood, G. H., Jr. 01225

*Delano quadrangle, western part*

- Schuylkill County: Maxwell, J. A. 00755

*Dutch Mountain, flora*

- Wyoming County: Read, C. B. 00927

*Eastern part*

- Orogeny, late Paleozoic: Arndt, H. H. 00017

*Ebsenburg quadrangle*

- Cambria and Blair Counties: Butts, Charles. 00143

*Elders Ridge quadrangle*

- Armstrong and Indiana Counties: Stone, R. W. 01097  
 Armstrong and Indiana Counties: Stone, R. W. 01098  
 Armstrong and Indiana Counties: Stone, R. W. 01101

*Ellsworth quadrangle*

- Greene and Washington Counties: Berryhill, H. L., Jr. 00104

*Fayette County*

- Accident quadrangle: Martin, G. C. 00740  
 Brownsville-Connellsville quadrangles: Campbell, M. R. 00178  
 California quadrangle: Schweinfurth, S. P. 01012  
 Masontown-Uniontown quadrangles: Campbell, M. R. 00168  
 Mather quadrangle: Kent, B. H. 01328  
 Waynesburg quadrangle: Stone, R. W. 01100

*Foxburg quadrangle*

- Armstrong, Butler, Clarion, and Venango Counties: Shaw, E. W. 01068  
 Armstrong, Butler, Clarion, and Venango Counties: Shaw, E. W. 01069

*Gaines quadrangle*

- Potter and Tioga Counties: Fuller, M. L. 00421

**Pennsylvania—Continued***Geological work, 1900-1903*

Summary: Campbell, M. R. 00169

*Grantsville quadrangle*

Somerset County: Martin, G. C. 00740

*Greene County*

Amity quadrangle: Berryhill, H. L., Jr. 00101

Carmichaels quadrangle: Kent, B. H. 01327

Eastern part: Kent, B. H. 00602

Ellsworth quadrangle: Berryhill, H. L., Jr. 00104

Masontown quadrangle: Campbell, M. R. 00168

Mather quadrangle: Kent, B. H. 01328

Rogersville quadrangle: Clapp, F. G. 00230

Waynesburg quadrangle: Roen, J. B. 01335

Waynesburg quadrangle: Stone, R. W. 01100

*Greene County, northern part*

Amity quadrangle: Clapp, F. G. 00290

Amity quadrangle: Clapp, F. G. 00291

*Hackett quadrangle*

Washington County: Kent, B. H. 00601

*Hollidaysburg quadrangle*

Bedford and Blair Counties: Butts, Charles. 00155

*Huntingdon County*

Huntingdon quadrangle: Butts, Charles. 00155

*Huntingdon quadrangle*

Blair and Huntingdon Counties: Butts, Charles. 00155

*Indiana County*

Barnesboro quadrangle: Campbell, M. R. 00198

Elders Ridge quadrangle: Stone, R. W. 01097

Elders Ridge quadrangle: Stone, R. W. 01098

Elders Ridge quadrangle: Stone, R. W. 01101

Indiana quadrangle: Richardson, G. B. 00949

Johnstown quadrangle: Phalen, W. C. 00882

Johnstown quadrangle: Phalen, W. C. 00884

Johnstown quadrangle: Phalen, W. C. 00887

Johnstown quadrangle, clay associated with coal: Phalen, W. C. 00885

Latrobe quadrangle: Campbell, M. R. 00170

Punxsutawney and Glen Campbell fields:

Peck, F. B. 00873

*Indiana quadrangle*

Indiana County: Richardson, G. B. 00949

*Jefferson County*

Punxsutawney and Glen Campbell fields:

Peck, F. B. 00873

*Johnstown quadrangle*

Cambria, Indiana, Somerset, and Westmoreland Counties: Phalen, W. C. 00882

Cambria, Indiana, Somerset, and Westmoreland Counties: Phalen, W. C. 00884

Cambria, Indiana, Somerset, and Westmoreland Counties: Phalen, W. C. 00887

Clay associated with coal: Phalen, W. C. 00885

**Pennsylvania***Joint pattern*

Anthracite region, western part: Wood, G. H., Jr. 01227

*Kittanning quadrangle*

Armstrong, Butler, and Clarion Counties: Butts, Charles. 00181

Armstrong, Clarion, and Butler Counties: Butts, Charles. 00145

*Klingerstown quadrangle*

Northumberland, Schuylkill, and Dauphin Counties: Trexler, J. P. 01145

*Lackawanna County*

Anthracite, Northern field, structure: Darton, N. H. 00312

Ransom quadrangle: Kehn, T. M. 00594

*Latrobe quadrangle*

Indiana and Westmoreland Counties: Campbell, M. R. 00170

*Lawrence County*

Resources: Van Lieu, J. A. 01169

Zelienople quadrangle: Richardson, G. B. 00955

*Lebanon County*

Lykens quadrangle: Trexler, J. P. 01146

Pine Grove quadrangle: Wood, G. H., Jr. 01232

Tower City quadrangle: Wood, G. H., Jr. 01225

*Luzerne County*

Anthracite, Northern field, structure: Darton, N. H. 00312

*Lykens quadrangle*

Dauphin, Schuylkill, and Lebanon Counties: Trexler, J. P. 01146

*Lykens quadrangle, north half*

Dauphin and Schuylkill Counties: Wood, G. H., Jr. 01234

*Masontown quadrangle*

Fayette, Greene, and Washington Counties: Campbell, M. R. 00168

*Mather quadrangle*

Greene, Washington, and Fayette Counties: Kent, B. H. 01328

*Mehoopany basins, Wyoming County*

Dutch Mountain, flora: Read, C. B. 00927

*Minersville and Tremont quadrangles, northern*

Schuylkill County: Wood, G. H., Jr. 01248

*Minersville quadrangle*

Schuylkill County: Wood, G. H., Jr. 01233

Schuylkill County: Wood, G. H., Jr. 01238

*Monongahela quadrangle*

Allegheny, Washington, and Westmoreland Counties: Roen, J. B. 00967

*Mount Carmel quadrangle, east-central part*

Northumberland and Columbia Counties: Rothrock, H. E. 00978

*Mount Carmel quadrangle, southeastern part*

Northumberland, Columbia, and Schuylkill Counties: Rothrock, H. E. 00979

*Mount Carmel quadrangle, southwestern part*

Northumberland and Schuylkill Counties: Rothrock, H. E. 00977



**Pennsylvania**

- Mount Carmel quadrangle, west-central part*  
Northumberland and Columbia Counties:  
Rothrock, H. E. 00976
- New Kensington quadrangle*  
Allegheny, Butler, and Westmoreland  
Counties: Richardson, G. B. 00953
- Northeastern part*  
Peat, distribution, type, resources: Cameron,  
C. C. 01318
- Northumberland County*  
Klingerstown quadrangle: Trexler, J. P. 01145  
Mount Carmel quadrangle, east-central part:  
Rothrock, H. E. 00978  
Mount Carmel quadrangle, southeastern part:  
Rothrock, H. E. 00979  
Mount Carmel quadrangle, southwestern  
part: Rothrock, H. E. 00977  
Mount Carmel quadrangle, west-central part:  
Rothrock, H. E. 00976  
Shamokin quadrangle, eastern part:  
Danilchik, Walter. 00300  
Shamokin quadrangle, western part: Arndt,  
H. H. 00016  
Tremont quadrangle: Wood, G. H., Jr. 01235  
Trevorton quadrangle, southern part: Arndt,  
H. H. 00018  
Valley View quadrangle: Trexler, J. P. 01144
- Paleobotany*  
Anthracite, Southern field: White, David.  
01291  
Forkston coal, Dutch Mountain, Wyoming  
County: Read, C. B. 00927
- Paleontology, Pocono Formation*  
Broad Top field, Bedford, Huntington, and  
Fulton Counties: Girty, G. H. 00444
- Patton quadrangle*  
Blair, Cambria, and Clearfield Counties:  
Campbell, M. R. 00198
- Peat*  
Distribution, type, resources: Cameron, C. C.  
01320
- Pine Grove quadrangle*  
Schuylkill, Lebanon, and Berks Counties:  
Wood, G. H., Jr. 01232
- Pine Grove quadrangle, north half*  
Schuylkill County: Wood, G. H., Jr. 01233
- Potter County*  
Gaines quadrangle: Fuller, M. L. 00421
- Punxsutawney and Glen Campbell fields*  
Indiana and Jefferson Counties: Peck, F. B.  
00873
- Ransom quadrangle*  
Lackawanna County: Kehn, T. M. 00594
- Resources*  
Beaver County: Patterson, E. D. 00867  
Lawrence County: Van Lieu, J. A. 01169
- Rogersville quadrangle*  
Greene County: Clapp, F. G. 00230
- Rural Valley quadrangle*  
Armstrong and Clarion Counties: Butts,  
Charles. 00145  
Armstrong and Clarion Counties: Butts,  
Charles. 00184

**Pennsylvania**

- Schuylkill County*  
Ashland quadrangle, eastern part: Haley, B.  
R. 00477  
Ashland quadrangle, western part: Haley, B.  
R. 00476  
Delano quadrangle, western part: Maxwell, J.  
A. 00755  
Klingerstown quadrangle: Trexler, J. P. 01145  
Lykens and Tower City quadrangles: Wood,  
G. H., Jr. 01234  
Lykens quadrangle: Trexler, J. P. 01146  
Minersville and Tremont quadrangles,  
northern halves: Wood, G. H., Jr. 01248  
Minersville quadrangle: Wood, G. H., Jr.  
01238  
Minersville, Tremont, Pine Grove, and  
Swatara Hill quadrangles: Wood, G. H., Jr.  
01233  
Mount Carmel quadrangle, southeastern part:  
Rothrock, H. E. 00979  
Mount Carmel quadrangle, southwestern  
part: Rothrock, H. E. 00977  
Pine Grove quadrangle: Wood, G. H., Jr.  
01232  
Shenandoah quadrangle: Wood, G. H., Jr.  
01226  
Shenandoah quadrangle, eastern part: Kehn,  
T. M. 00596  
Shenandoah quadrangle, western part:  
Danilchik, Walter. 00301  
Swatara Hill quadrangle: Wood, G. H., Jr.  
01231  
Tower City quadrangle: Wood, G. H., Jr.  
01225  
Tremont quadrangle: Wood, G. H., Jr. 01235  
Tremont quadrangle, southern half: Wood, G.  
H., Jr. 01239  
Valley View quadrangle: Trexler, J. P. 01144
- Sewickley quadrangle*  
Allegheny, Beaver, and Butler Counties:  
Munn, M. J. 00783
- Shamokin quadrangle, eastern part*  
Northumberland County: Danilchik, Walter.  
00300
- Shamokin quadrangle, western part*  
Northumberland County: Arndt, H. H. 00016
- Shenandoah quadrangle*  
Schuylkill County: Wood, G. H., Jr. 01226  
*Shenandoah quadrangle, eastern part*  
Schuylkill County: Kehn, T. M. 00596
- Shenandoah quadrangle, western part*  
Schuylkill County: Danilchik, Walter. 00301
- Somerset County*  
Accident-Grantsville quadrangles: Martin, G.  
C. 00740  
Johnstown quadrangle: Phalen, W. C. 00882  
Johnstown quadrangle: Phalen, W. C. 00884  
Johnstown quadrangle: Phalen, W. C. 00887  
Johnstown quadrangle, clay associated with  
coal: Phalen, W. C. 00885  
Somerset-Windber quadrangles: Richardson,  
G. B. 00954

**Pennsylvania—Continued***Somerset quadrangle*

Somerset and Westmoreland Counties:  
Richardson, G. B. 00954

*Stuebenville quadrangle*

Beaver and Washington Counties: Griswold,  
W. T. 00460

*Stratigraphy*

Pennsylvanian rocks, 1890: White, I. C. 01295

*Swatara Hill quadrangle*

Schuylkill and Berks Counties: Wood, G. H.,  
Jr. 01231

*Swatara Hill quadrangle, northwest corner*

Schuylkill County: Wood, G. H., Jr. 01233

*Tioga County*

Gaines quadrangle: Fuller, M. L. 00421

*Tower City quadrangle*

Dauphin and Schuylkill Counties: Wood, G.  
H., Jr. 01234

Schuylkill, Dauphin, and Lebanon Counties:  
Wood, G. H., Jr. 01225

*Tremont quadrangle*

Schuylkill and Northumberland Counties:  
Wood, G. H., Jr. 01235

Schuylkill County: Wood, G. H., Jr. 01233

*Tremont quadrangle, southern half*

Schuylkill County: Wood, G. H., Jr. 01239

*Trevorton quadrangle, southern part*

Northumberland County: Arndt, H. H. 00018

*Uniontown quadrangle*

Fayette County: Campbell, M. R. 00168

*Valley View quadrangle*

Schuylkill and Northumberland Counties:  
Trexler, J. P. 01144

*Venango County*

Foxburg quadrangle: Shaw, E. W. 01068

Foxburg quadrangle: Shaw, E. W. 01069

*Warren County*

Warren quadrangle: Butts, Charles. 00183

*Warren quadrangle*

Warren County: Butts, Charles. 00183

*Washington County*

Amity quadrangle: Berryhill, H. L., Jr. 00101  
Brownsville quadrangle: Campbell, M. R.  
00178

Burgettstown quadrangle: Griswold, W. T.  
00459

Burgettstown-Carnegie quadrangles: Shaw, E.  
W. 01070

California quadrangle: Schweinfurth, S. P.  
01012

Carnegie quadrangle: Munn, M. J. 00782

Claysville quadrangle: Griswold, W. T. 00460

Claysville quadrangle: Munn, M. J. 00784

Ellsworth quadrangle: Berryhill, H. L., Jr.  
00104

Hackett quadrangle: Kent, B. H. 00601

Masonstown quadrangle: Campbell, M. R.  
00168

Mather quadrangle: Kent, B. H. 01328

Monongahela quadrangle: Roen, J. B. 00967

Stratigraphy, Upper Pennsylvanian and

Lower Permian rocks: Berryhill, H. L., Jr.  
00105

Waynesburg quadrangle: Roen, J. B. 01335

**Pennsylvania***Washington County*

Waynesburg quadrangle: Stone, R. W. 01100

*Washington County, eastern part*

Amity quadrangle: Clapp, F. G. 00290

Amity quadrangle: Clapp, F. G. 00291

*Wayne County*

Anthracite, Northern field, structure: Darton,  
N. H. 00312

*Waynesburg quadrangle*

Greene and Washington Counties: Roen, J. B.  
01335

Greene, Fayette, and Washington Counties:  
Stone, R. W. 01100

*Western part*

Uranium-bearing coal and associated rocks:  
Welch, S. W. 01287

*Westmoreland County*

Brownsville-Connellsville quadrangles:

Campbell, M. R. 00178

Johnstown quadrangle: Phalen, W. C. 00882

Johnstown quadrangle: Phalen, W. C. 00884

Johnstown quadrangle: Phalen, W. C. 00887

Johnstown quadrangle, clay associated with  
coal: Phalen, W. C. 00885

Latrobe quadrangle: Campbell, M. R. 00170

Monongahela quadrangle: Roen, J. B. 00967

New Kensington quadrangle: Richardson, G.  
B. 00953

Somerset quadrangle: Richardson, G. B.  
00954

*Wilmore basin*

Cambria County: Butts, Charles. 00142

*Windber quadrangle*

Cambria and Somerset Counties: Richardson,  
G. B. 00954

*Wyoming County*

Dutch Mountain, flora: Read, C. B. 00927

Mehoopany basins, Dutch Mountain, flora:  
Read, C. B. 00927

*Zelienople quadrangle*

Beaver, Butler, and Lawrence Counties:  
Richardson, G. B. 00955

**Philippine Islands***Coal fields*

Summary, 1905: Parker, E. W. 00838

*Resources*

Summary, 1900: Becker, G. F. 00081

**Producer-gas plants***Status*

Tests, 1906: Fernald, R. H. 00400

Tests, 1908: Fernald, R. H. 00401

Tests, 1908: Fernald, R. H. 00402

Tests, 1904: Parker, E. W. 00863

**Production***Future*

Viewed from 1907: Gannett, Henry. 00429

*Prices*

1913-1918: Leshner, C. E. 00669

*Statistics*

1883-1884: Armstrong, S. C. 00014

1885: Ashburner, C. A. 00022

1886: Ashburner, C. A. 00023

1887: Ashburner, C. A. 00024

1888: Ashburner, C. A. 00025

**Production***Statistics*

- 1846-1907: Gannett, Henry. 00429  
 1914: Leshner, C. E. 00656  
 1915: Leshner, C. E. 00659  
 1916: Leshner, C. E. 00663  
 1917: Leshner, C. E. 00666  
 1918: Leshner, C. E. 00670  
 1889-1890: Parker, E. W. 00814  
 1891: Parker, E. W. 00815  
 1892: Parker, E. W. 00816  
 1893: Parker, E. W. 00817  
 1894: Parker, E. W. 00818  
 1895: Parker, E. W. 00819  
 1896: Parker, E. W. 00820  
 1897: Parker, E. W. 00822  
 1898: Parker, E. W. 00824  
 1899: Parker, E. W. 00826  
 1900: Parker, E. W. 00828  
 1901: Parker, E. W. 00830  
 1902: Parker, E. W. 00832  
 1903: Parker, E. W. 00834  
 1904: Parker, E. W. 00836  
 1905: Parker, E. W. 00838  
 1906: Parker, E. W. 00840  
 1908: Parker, E. W. 00845  
 1909: Parker, E. W. 00848  
 1910: Parker, E. W. 00851  
 1911: Parker, E. W. 00853  
 1912: Parker, E. W. 00856  
 1913: Parker, E. W. 00860  
 1907: Parker, E. W. 00891  
 1922: Tryon, F. G. 01153  
 1919: Tryon, F. G. 01155  
 1920: Tryon, F. G. 01155  
 1921: Tryon, F. G. 01155  
 1923: Tryon, F. G. 01156  
 1882: Williams, Albert, Jr. 01213

*Trends*

General: Campbell, M. R. 00203

*War-induced problems*

1916-1918: Leshner, C. E. 00661

**Public coal lands***Classification*

- Standards: Bass, N. W. 01317  
 Valuation: Ashley, G. H. 00031  
 Valuation: Smith, G. O. 01034

*Valuation*

- Classification: Ashley, G. H. 00031  
 Classification: Smith, G. O. 01034

**Public lands***Coal mining*

- Regulations, 1938: U.S. Geological Survey.  
 01166

**Purchase***Government specifications*

- 1908: Burrows, J. S. 00141  
 1908-1909: Pope, G. S. 01059  
 1907: Randall, D. T. 00922

**Rank***Classification*

- Specifications, 1904: Parker, E. W. 00863

**Rank of coal***New Mexico, San Juan basin*

- Increase with depth: Hinds, J. S. 00568

**Rank of coal***Alaska, Cook Inlet basin*

- Variations in: Barnes, F. F. 00056

**Regulations***Coal mining*

- Public lands, 1938: U.S. Geological Survey.  
 01166

**Resins***Paleozoic plants*

- Coals of high rank: White, David. 01293

**Resources***Alabama*

- Summary: Culbertson, W. C. 00279

*Alaska*

- Summary, 1967: Barnes, F. F. 00059

*Arkansas*

- Summary: Haley, B. R. 00472

*Colombia*

- Summary, 1948: Singewald, Q. D. 01023

*Colorado*

- Summary, 1959: Landis, E. R. 00631

- Summary, 1953: Spencer, F. D. 01079

*Indiana*

- Summary: Spencer, F. D. 01073

*Kentucky, eastern*

- Summary: Huddle, J. W. 00539

*Korea*

- Summary: Andrews, D. A. 00013

*Michigan*

- Summary: Cohee, G. V. 00235

*Montana*

- Summary: Combo, J. X. 00262

*New Mexico*

- Summary: Read, C. B. 00928

*North Dakota*

- Summary: Brant, R. A. 00119

*Oklahoma*

- Summary: Trumbull, J. V. A. 01149

*Oregon*

- Summary: Mason, R. S. 00751

*Pennsylvania*

- Beaver County: Patterson, E. D. 00867

- Lawrence County: Van Lieu, J. A. 01169

*South Dakota*

- Summary: Brown, D. M. 00131

*Stripping coal*

- United States, summary, 1967: Averitt, Paul.

00093

- United States, summary, 1970: Averitt, Paul.  
 01315

*Texas, bituminous coal*

- Summary: Mapel, W. J. 00722

*Thailand*

- Summary: Cnaraljanaphet, Jumchet. 00229

*United States*

- Summary, 1967: Averitt, Paul. 00042

- Summary, 1950: Averitt, Paul. 00043

- Summary, 1953: Averitt, Paul. 00092

- Summary, 1960: Averitt, Paul. 00094

- Summary, 1929: Campbell, M. R. 00197

- Summary, 1909: Campbell, M. R. 00203

- Summary, 1915, 1918: Campbell, M. R. 00297

*Virginia*

- Summary: Brown, Andrew. 00129

**Resources—Continued***Wyoming*

Summary: Berryhill, H. L., Jr. 00102

**Rhode Island***Kent County*

Narragansett basin: Ashley, G. H. 00032

Narragansett basin: Ashley, G. H. 00033

Narragansett basin: Foerste, A. F. 00415

*Meta-anthracite*

Narragansett basin: Ashley, G. H. 00032

Narragansett basin: Ashley, G. H. 00033

Narragansett basin: Foerste, A. F. 00415

*Narragansett basin*

Insect fauna: Scudder, S. H. 00997

Kent, Newport, and Providence Counties:

Ashley, G. H. 00032

Kent, Newport, and Providence Counties:

Ashley, G. H. 00033

Kent, Newport, and Providence Counties:

Foerste, A. F. 00415

*Newport County*

Narragansett basin: Ashley, G. H. 00032

Narragansett basin: Ashley, G. H. 00033

Narragansett basin: Foerste, A. F. 00415

*Providence County*

Narragansett basin: Ashley, G. H. 00032

Narragansett basin: Ashley, G. H. 00033

Narragansett basin: Foerste, A. F. 00415

**Rocky Mountain Region***Coal fields*

Summary, 1900: Storrs, L. S. 01109

*Oil yield of coal*

General: Winchester, D. E. 01219

**Samples***Methods of collection*

Handling and storage: Parker, E. W. 00863

**Sampling***Methods*

Field description of coal beds: Schopf, J. M. 00989

*Methods of collection*

Handling and storage: Burrows, J. S. 00139

Handling and storage: Burrows, J. S. 00140

**Scotland***Boghead coal*

Torbanite: Thiessen, Reinhardt. 01118

**South Dakota***Bar H area, Slim Buttes*

Harding County: Zeller, H. D. 01297

*Black Hills region, geologic and structure contour map*

Butte County: Mapel, W. J. 00726

*Butte County*

Black Hills region, geologic and structure contour map: Mapel, W. J. 00726

*Cave Hills and Table Mountain area*

Harding County: Denson, N. M. 00378

*Cave Hills area*

Harding County: Piringos, G. N. 00903

*Cheyenne River and Standing Rock Indian Reservations,*

Corson, Dewey and Ziebach Counties:

Calvert, W. R. 01352

**South Dakota***Cheyenne River and Standing Rock Indian Reservations,*

Corson, Dewey, and Ziebach Counties:

Denson, N. M. 01353

*Coal fields*

Summary, 1952: Brown, D. M. 00131

Summary, 1900: Storrs, L. S. 01109

*Corson County*

Cheyenne River and Standing Rock Indian

Reservations: Calvert, W. R. 01352

Cheyenne River and Standing Rock Indian

Reservations: Denson, N. M. 01353

Great Sioux Reservation: Willis, Bailey. 01253

*Dewey County*

Cheyenne River and Standing Rock Indian

Reservations: Denson, N. M. 01353

Cheyenne River Indian Reservation: Calvert, W. R. 01352

Great Sioux Reservation: Willis, Bailey. 01253

*Edgemont quadrangle*

Fall River County: Darton, N. H. 00319

*Fall River County*

Edgemont quadrangle: Darton, N. H. 00319

General: Stone, R. W. 01142

*Great Sioux Reservation*

Corson, Dewey, and Perkins Counties: Willis,

Bailey. 01253

*Harding County*

Bar H area, Slim Buttes: Zeller, H. D. 01297

Cave Hills and Table Mountain area: Denson, N. M. 00378

Cave Hills area: Piringos, G. N. 00903

General: Winchester, D. E. 01220

Mendenhall area, uranium-bearing coal: Gill, J. R. 00443

Slim Buttes area: Denson, N. M. 00377

Slim Buttes area, southern part: Moore, G. W. 00777

Uranium-bearing coal: Denson, N. M. 00334

Uranium-bearing coal: Denson, N. M. 00375

Uranium-bearing coal: King, J. W. 00606

Uranium-bearing coal: Zeller, H. D. 01303

*Minor elements in coal*

Geochemical and geographic distribution:

Deul, Maurice. 01354

*Perkins County*

General: Winchester, D. E. 01220

Great Sioux Reservation: Willis, Bailey. 01253

Uranium-bearing coal: Zeller, H. D. 01303

*Resources*

Summary: Brown, D. M. 00131

*Slim Buttes area*

Harding County: Denson, N. M. 00377

*Slim Buttes area, southern part*

Harding County: Moore, G. W. 00777

*Slim Buttes, Bar H area*

Harding County: Zeller, H. D. 01297

*Uranium-bearing coal*

Bar H area, Slim Buttes, Harding County  
Zeller, H. D. 01297

Cave Hills and Table Mountain area, Harding  
County: Denson, N. M. 00378

Cave Hills area, Harding County: Piringos  
G. N. 00903

**South Dakota***Uranium-bearing coal*

Distribution, thickness, analyses: Denson, N. M. 00333

General: Denson, N. M. 00376

General: Vine, J. D. 01178

Harding and Perkins Counties: Zeller, H. D. 01303

Harding County: Denson, N. M. 00334

Harding County: Denson, N. M. 00375

Harding County: King, J. W. 00606

Harding County, Mendenhall area: Gill, J. R. 00443

Slim Buttes area, Harding County: Denson, N. M. 00377

Slim Buttes area, southern part, Harding County: Moore, G. W. 00777

*Ziebach County*

Cheyenne River and Standing Rock Indian Reservations: Denson, N. M. 01353

Cheyenne River Indian Reservation: Calvert, W. R. 01352

**Southwestern region***Coal fields*

Summary, 1900: Taff, J. A. 01122

**Spheroidal coal***Colorado*

Trinidad field: Johnson, R. B. 00556

**Spontaneous combustion of coal***Cause*

Effects: Rogers, G. S. 00970

**Strip mining, effects of***Kentucky*

Beaver Creek basin, McCreary County: Collier, C. R. 00248

Beaver Creek basin, McCreary County: Collier, C. R. 01323

Beaver Creek basin, McCreary County: Musser, J. J. 00787

**Stripping coal***Alaska*

Nenana field, Lignite Creek: Wahrhaftig, Clyde. 01186

*Montana*

Custer and Powder River Counties: Brown, Andrew. 00130

Richland and Dawson Counties: Culbertson, W. C. 00276

Rosebud County: Kepferle, R. C. 00603

Wibaux area, Dawson, Richland, and Wibaux Counties: May, P. R. 00756

*North Dakota*

Slope and Bowman Counties: Kepferle, R. C. 00691

Wibaux area, Golden Valley County: May, P. R. 00756

*Resources*

United States, summary, 1967: Averitt, Paul. 00093

United States, summary, 1970: Averitt, Paul. 01315

**Swamps***Peat-forming*

Botanical composition by type: Kremp, G. O. W. 00687

**Tennessee***Anderson County*

Briceville quadrangle: Keith, Arthur. 00597

Cumberland Gap field: Ashley, G. H. 00027

*Bledsoe County*

Chattanooga quadrangle: Hayes, C. W. 00499

Pikeville quadrangle: Hayes, C. W. 00502

*Bon Air and Clifty district*

Cumberland and White Counties: Butts, Charles. 00152

*Briceville quadrangle*

Anderson, Campbell, Morgan, and Scott Counties: Keith, Arthur. 00597

*Campbell County*

Briceville quadrangle: Keith, Arthur. 00597

Cumberland Gap field: Ashley, G. H. 00027

Ivydell, Jellico West, Ketchen, and Pioneer quadrangles: Englund, K. J. 00380

Ivydell quadrangle: Englund, K. J. 00366

Jellico West quadrangle: Englund, K. J. 01326

Maynardville quadrangle: Keith, Arthur. 00599

Pioneer quadrangle: Englund, K. J. 00365

*Chattanooga quadrangle*

Bledsoe, Hamilton, Marion, Rhea, and Sequatchie Counties: Hayes, C. W. 00499

*Claiborne County*

Cumberland Gap field: Ashley, G. H. 00027

Cumberland Gap field: Ashley, G. H. 00037

Maynardville quadrangle: Keith, Arthur. 00599

Middlesboro South quadrangle: Englund, K. J. 00368

*Coal fields*

Summary, 1900: Hayes, C. W. 00506

Summary, 1892: Stafford, J. M. 01086

*Coffee County*

Sewanee quadrangle: Hayes, C. W. 00500

*Cumberland County*

Bon Air and Clifty district: Butts, Charles. 00152

Kingston quadrangle: Hayes, C. W. 00498

Standingstone quadrangle: Campbell, M. R. 00175

Wartburg quadrangle: Keith, Arthur. 00598

*Cumberland Gap field*

Anderson, Campbell, Claiborne, Morgan, and Scott Counties: Ashley, G. H. 00027

Claiborne County: Ashley, G. H. 00037

*Fentress County*

Standingstone quadrangle: Campbell, M. R. 00175

Wartburg quadrangle: Keith, Arthur. 00598

*Franklin County*

Sewanee quadrangle: Hayes, C. W. 00500

Stevenson quadrangle: Hayes, C. W. 00501

*Grundy County*

McMinnville quadrangle: Hayes, C. W. 00503

Sewanee quadrangle: Hayes, C. W. 00500

*Hamilton County*

Chattanooga quadrangle: Hayes, C. W. 00499

*Ivydell quadrangle*

Campbell County: Englund, K. J. 00366

Campbell County: Englund, K. J. 00380

**Tennessee—Continued***Jellico West quadrangle*

Campbell and Scott Counties: Englund, K. J. 01326

Campbell County: Englund, K. J. 00380

*Ketchen quadrangle*

Scott and Campbell Counties: Englund, K. J. 00380, 00369

*Kingston quadrangle*

Cumberland, Morgan, Rhea, and Roane Counties: Hayes, C. W. 00498

*Loudon quadrangle*

Morgan County: Keith, Arthur. 00692

*Marion County*

Chattanooga quadrangle: Hayes, C. W. 00499

Ringgold quadrangle: Hayes, C. W. 00497

Sewanee quadrangle: Hayes, C. W. 00500

Stevenson quadrangle: Hayes, C. W. 00501

*Maynardville quadrangle*

Campbell and Claiborne Counties: Keith, Arthur. 00599

*McMinnville quadrangle*

Grundy, Van Buren, and Warren Counties: Hayes, C. W. 00503

*Middlesboro South quadrangle*

Claiborne County: Englund, K. J. 00368

*Morgan County*

Briceville quadrangle: Keith, Arthur. 00597

Cumberland Gap field: Ashley, G. H. 00027

Kingston quadrangle: Hayes, C. W. 00498

Loudon quadrangle: Keith, Arthur. 00692

Wartburg quadrangle: Keith, Arthur. 00598

*Overton County*

Standingstone quadrangle: Campbell, M. R. 00175

*Pickett County*

Standingstone quadrangle: Campbell, M. R. 00175

*Pikeville quadrangle*

Bledsoe, Sequatchie, and Van Buren Counties: Hayes, C. W. 00502

*Pioneer quadrangle*

Scott and Campbell Counties: Englund, K. J. 00380

Scott and Campbell Counties: Englund, K. J. 00365

*Plateau field*

Stevenson quadrangle, Franklin and Marion Counties: Hayes, C. W. 00501

*Putnam County*

Standingstone quadrangle: Campbell, M. R. 00175

*Rhea County*

Chattanooga quadrangle: Hayes, C. W. 00499

Kingston quadrangle: Hayes, C. W. 00498

*Ringgold quadrangle*

Marion County: Hayes, C. W. 00497

*Roane County*

Kingston quadrangle: Hayes, C. W. 00498

*Scott County*

Briceville quadrangle: Keith, Arthur. 00597

Cumberland Gap field: Ashley, G. H. 00027

Jellico West quadrangle: Englund, K. J. 01326

**Tennessee***Scott County*

Ketchen and Pioneer quadrangles: Englund, K. J. 00380

Ketchen quadrangle: Englund, K. J. 00369

Pioneer quadrangle: Englund, K. J. 00365

Wartburg quadrangle: Keith, Arthur. 00598

*Sequatchie County*

Chattanooga quadrangle: Hayes, C. W. 00499

Pikeville quadrangle: Hayes, C. W. 00502

*Sewanee quadrangle*

Coffee, Franklin, Grundy, and Marion Counties: Hayes, C. W. 00500

*Standingstone quadrangle*

Cumberland, Fentress, Overton, Pickett, and Putnam Counties: Campbell, M. R. 00175

*Van Buren County*

McMinnville quadrangle: Hayes, C. W. 00503

Pikeville quadrangle: Hayes, C. W. 00502

*Warren County*

McMinnville quadrangle: Hayes, C. W. 00503

*Wartburg quadrangle*

Cumberland, Fentress, Morgan, and Scott Counties: Keith, Arthur. 00598

*White County*

Bon Air and Clifty district: Butts, Charles. 00152

**Tests***Boilers*

House, factory, locomotive: Goss, W. F. M. 00447

House, factory, locomotive: Goss, W. F. M. 00448

House, factory, locomotive: Ray, W. T. 00926

*Producer-gas plants*

General: Parker, E. W. 00863

*Steam production*

General: Breckenridge, L. P. 00120

General: Parker, E. W. 00863

General: Randall, D. T. 01056

General: Ray, W. T. 00925

*Washing*

General: Belden, A. W. 00084

General: Moldenke, Richard. 00776

General: Parker, E. W. 00863

**Texas***Atascosa County*

Geology and ground-water resources: Lonsdale, J. T. 00685

*Bituminous coal resources*

Summary: Mapel, W. J. 00722

*Cannel coal*

Santo Tomas field, Webb County: Ashley, G. H. 00035

Santo Tomas field, Webb County: Lonsdale, J. T. 00694

Santo Tomas field, Webb County: Trowbridge, A. C. 01147

*Coal fields*

Summary, 1891: Hill, R. T. 00520

Summary, 1892: Hill, R. T. 00521

Summary, 1900: Taff, J. A. 01122

Summary, 1967: Mapel, W. J. 00722

**Texas***Dimmit County*

General: Trowbridge, A. C. 01147

General: Vaughan, T. W. 01171

*Eagle Pass field*

Maverick County: Vaughan, T. W. 01171

*Frio County*

Geology and ground-water resources:

Lonsdale, J. T. 00685

*Maverick County*

Eagle Pass field: Vaughan, T. W. 01171

*Medina County*

Geology and ground-water resources: Sayre,

A. N. 00986

*Minor elements in coal*

Geochemical and geographic distribution:

Deul, Maurice. 01354

*Presidio County*

San Carlos field: Vaughan, T. W. 01171

*Resources, bituminous coal*

Summary: Mapel, W. J. 00722

*San Carlos field*

Presidio County: Vaughan, T. W. 01171

*Santo Tomas field*

Webb County: Ashley, G. H. 00035

Webb County: Lonsdale, J. T. 00694

Webb County: Trowbridge, A. C. 01147

Webb County: Vaughan, T. W. 01171

*Uvalde County*

General: Vaughan, T. W. 01171

Geology and ground-water resources: Sayre,

A. N. 00986

Uvalde quadrangle: Vaughan, T. W. 01170

*Uvalde quadrangle*

Uvalde and Zavala Counties: Vaughan, T. W.

01170

*Webb County*

Geology and ground-water resources:

Lonsdale, J. T. 00694

Santo Tomas field: Lonsdale, J. T. 00694

Santo Tomas field: Ashley, G. H. 00035

Santo Tomas field: Trowbridge, A. C. 01147

Santo Tomas field: Vaughan, T. W. 01171

*Zavala County*

General: Trowbridge, A. C. 01147

General: Vaughan, T. W. 01171

Uvalde quadrangle: Vaughan, T. W. 01170

**Thailand***Resources*

Summary: Charaljavanaphet, Jumchet. 00229

**United States***Analyses*

1907: Burrows, J. S. 00140

1911: Campbell, M. R. 00193

1912: Campbell, M. R. 00194

1913: Campbell, M. R. 00195

1914-1915: Campbell, M. R. 00199

1915: Campbell, M. R. 00297

1908-1909: Pope, G. S. 01059

1907: Randall, D. T. 00922

*Beryllium-bearing coal*

Geochemical and geographic distribution:

Stadnichenko, Taisia. 01085

*Cannel coal*

Summary, 1917: Ashley, G. H. 00034

**United States***Coal fields*

Map, conterminous States, 1942: Averitt, Paul. 00039

Map, conterminous States, 1907: Parker, E. W. 00891

Map, conterminous States, 1959: Trumbull, J. V. A. 01150

Summary, 1909: Campbell, M. R. 00203

Summary, 1900-1901: Hayes, C. W. 00505

Summary, 1902: Hayes, C. W. 00507

*Geologic work on coal*

Summary, 1905: Campbell, M. R. 00172

Summary, 1907: Campbell, M. R. 00173

*Germanium-bearing coal*

General: Stadnichenko, Taisia. 01084

*Paleobotany*

Upper Paleozoic floral zones and floral

provinces: Read, C. B. 00929

*Peat*

Distribution, use, resources: Davis, C. A. 00322

Distribution, use, resources: Soper, E. K. 01072

*Production, 1846-1907*

Projected into future: Gannett, Henry. 00429

*Resources*

1915, 1918: Campbell, M. R. 00297

Summary, 1967: Averitt, Paul. 00042

Summary, 1950: Averitt, Paul. 00043

Summary, 1953: Averitt, Paul. 00092

Summary, 1960: Averitt, Paul. 00094

Summary, 1929: Campbell, M. R. 00197

*Stripping coal resources*

Summary, 1967: Averitt, Paul. 00093

Summary, 1970: Averitt, Paul. 01315

*Uranium-bearing coal*

Bibliography, 1955: Kehn, T. M. 00587

General: Vine, J. D. 01178

Geographic and geologic distribution: Vine, J. D. 01176

Microscopic studies: Schopf, J. M. 00990

**United States, western***Coking coal*

Summary, 1965: Averitt, Paul. 00041

Summary, 1950: Berryhill, L. R. 00107

*Uranium-bearing coal*

Origin, distribution: Denson, N. M. 00335

**Uranium-bearing coal***Alaska*

Manley Hot Springs-Rampart district, Hunter

Creek: Moxham, R. M. 00781

*Alaska, east-central part*

Fortymile district, Chicken area: Wedow,

Helmuth, Jr. 01263

*Bibliography*

United States, 1955: Kehn, T. M. 00587

*California*

General: Moore, G. W. 00780

*Idaho*

Cassia County, Goose Creek district: Mapel, W. J. 00723

Fall Creek area, Bonneville County: Vine, J. D. 01177

**Uranium-bearing coal—Continued***Idaho*

Fall Creek area, Bonneville County: Vine, J. D. 01180

*Montana*

Carter County: Denson, N. M. 00375

Carter County, Ekalaka field: Gill, J. R. 00442

Distribution, thickness, analyses: Denson, N. M. 00333

General: Denson, N. M. 00376

General: Vine, J. D. 01178

*Montana, North and South Dakota*

Relation to overlying tuff: Denson, N. M. 00334

*Montana, western*

General: Hail, W. J., Jr. 00471

*Nevada*

Elko County, Goose Creek district: Mapel, W. J. 00723

General: Moore, G. W. 00780

*New Mexico*

Sandoval County, La Ventana Mesa area: Bachman, G. O. 00044

*North Dakota*

Billings, Golden Valley, and Slope Counties: Moore, G. W. 00779

Billings, Stark, and Slope Counties: Denson, N. M. 00375

Bowman County: Zeller, H. D. 01303

Chalky Buttes area, Slope County: Moore, G. W. 00778

Distribution, thickness, analyses: Denson, N. M. 00333

General: Denson, N. M. 00376

General: Vine, J. D. 01178

*Ohio*

Eastern part: Welch, S. W. 01287

*Oregon*

General: Moore, G. W. 00780

*Pennsylvania*

Anthracite fields: Welch, S. W. 01284

Western part: Welch, S. W. 01287

*South Dakota*

Cave Hills and Table Mountain area, Harding County: Denson, N. M. 00378

Cave Hills area, Harding County: Pipiringos, G. N. 00903

Distribution, thickness, analyses: Denson, N. M. 00333

General: Denson, N. M. 00376

General: Vine, J. D. 01178

Harding and Perkins Counties: Zeller, H. D. 01303

Harding County: Denson, N. M. 00375

Harding County: King, J. W. 00606

Harding County, Mendenhall area: Gill, J. R. 00443

Slim Buttes area, Harding County: Denson, N. M. 00377

Slim Buttes area, southern part, Harding County: Moore, G. W. 00777

Slim Buttes, Bar H area, Harding County: Zeller, H. D. 01297

**Uranium-bearing coal***United States*

General: Vine, J. D. 01178

Geographic and geologic distribution: Vine, J. D. 01176

Microscopic studies: Schopf, J. M. 00990

*United States, western*

Origin, distribution: Denson, N. M. 00335

*Utah*

Box Elder County, Goose Creek district:

Mapel, W. J. 00723

Cedar Mountain quadrangle, Iron County: Averitt, Paul. 00040

San Juan County, Montezuma Canyon area: Huff, L. C. 00541

*Utah, southern part*

General: Zeller, H. D. 01347

*Wyoming*

Sweetwater County, Great Divide basin:

Pipiringos, G. N. 00901

Sweetwater County, Great Divide basin:

Pipiringos, G. N. 00902

Sweetwater County, Red Desert area:

Masursky, Harold. 00752

Sweetwater County, Red Desert area:

Masursky, Harold. 00753

Sweetwater County, Red Desert area:

Masursky, Harold. 00754

**Utah***Analyses*

1882: Daggett, Ellsworth. 00282

*Blackhawk Formation, sedimentary features*

Carbon County, Sunnyside area: Maberry, J. O. 00713

*Blacktail (Tabby) Mountain field*

Duchesne County, Moon Lake area: Huddle, J. W. 00540

Wasatch County: Lupton, C. T. 00699

*Book Cliffs field*

Carbon and Emery Counties: Dunrud, C. R. 00359

Carbon and Emery Counties: Dyer, B. W. 00370

Carbon County: Clark, F. R. 00234

Carbon, Emery, and Grand Counties:

Richardson, G. B. 00951

Carbon, Emery, and Grand Counties:

Richardson, G. B. 01052

Carbon, Emery, and Sevier Counties: Taff, J.

A. 01126

Columbia area, Carbon and Emery Counties: Osterwald, F. W. 00796

Emery and Grand Counties: Fisher, D. J. 00414

Sunnyside area, Carbon County: Brodsky, Harold. 00123

Sunnyside area, Carbon County: Maberry, J. O. 00712

Sunnyside area, Carbon County: Maberry, J. O. 00713

Sunnyside area, Carbon County: Maberry, J. O. 00714

Sunnyside area, Carbon County: Osterwald, F. W. 00795



- Utah**
- Book Cliffs field*  
Sunnyside No. 1 mine area, Carbon County: Osterwald, F. W. 00794  
Thompson area, Grand County: Clark, F. R. 00231
- Box Elder County*  
Goose Creek district, uranium-bearing coal: Mapel, W. J. 00723
- Canaan Creek quadrangle*  
Garfield County: Zeller, H. D. 01300
- Carbon County*  
Book Cliffs field: Dyer, B. W. 00370  
Book Cliffs field: Richardson, G. B. 00951  
Book Cliffs field: Richardson, G. B. 01052  
Book Cliffs field: Taff, J. A. 01126  
Castle Valley: Lupton, C. T. 00730  
Castle Valley district: Taff, J. A. 01113  
Castlegate, Wellington, and Sunnyside quadrangles: Clark, F. R. 00234  
Columbia area: Osterwald, F. W. 00796  
Mine bumps, seismic study of: Dunrud, C. R. 00359  
Wasatch Plateau field: Spieker, E. M. 01080
- Carbon County, Sunnyside area*  
Blackhawk Formation, sedimentary features: Maberry, J. O. 00713  
Coal-bearing rocks: Brodsky, Harold. 00123  
Mine bumps, geology applied to study of: Osterwald, F. W. 00795  
Mine bumps, instrumentation for study of: Maberry, J. O. 00712  
Seismic events, 1965: Maberry, J. O. 00714  
Sunnyside No. 1 mine area: Osterwald, F. W. 00794
- Carcass Canyon quadrangle*  
Garfield and Kane Counties: Zeller, H. D. 01301
- Castle Valley*  
Carbon, Emery, and Sevier Counties: Lupton, C. T. 00730  
Carbon County: Taff, J. A. 01113
- Castlegate quadrangle*  
Carbon County: Clark, F. R. 00234
- Cedar Mountain quadrangle*  
Iron County: Averitt, Paul. 00040
- Coal fields*  
Summary, 1892: Forrester, Robert. 00416  
Summary, 1900: Storrs, L. S. 01109
- Coalville field*  
Summit County: Wegemann, C. H. 01282  
Summit County: Taff, J. A. 01125
- Columbia area*  
Carbon and Emery Counties: Osterwald, F. W. 00796
- Cretaceous sedimentation and tectonism*  
Kaiparowits Plateau field, Kane County: Peterson, Fred. 00879
- Daggett County*  
Henrys Fork field: Gale, H. S. 00425  
Henrys Fork field: Gale, H. S. 00426
- Dakota Formation*  
San Juan County: Gregory, H. E. 00456
- Utah**
- Dakota Formation*  
San Juan County, Montezuma Canyon area: Huff, L. C. 00541
- Dave Canyon quadrangle*  
Garfield County: Zeller, H. D. 01298
- Death Ridge quadrangle*  
Garfield and Kane Counties: Zeller, H. D. 01302
- Duchesne County*  
Moon Lake area: Huddle, J. W. 00540  
Vernal field: Kinney, D. M. 00607
- Emery County*  
Book Cliffs field: Dyer, B. W. 00370  
Book Cliffs field: Fisher, D. J. 00414  
Book Cliffs field: Richardson, G. B. 00951  
Book Cliffs field: Richardson, G. B. 01052  
Book Cliffs field: Taff, J. A. 01126  
Castle Valley: Lupton, C. T. 00730  
Columbia area: Osterwald, F. W. 00796  
Mine bumps, seismic study of: Dunrud, C. R. 00359  
Pleasant Valley district: Taff, J. A. 01113  
Wasatch Plateau field: Spieker, E. M. 01080
- Emery field*  
Carbon, Emery, and Sevier Counties: Lupton, C. T. 00730
- Garfield County*  
Canaan Creek quadrangle: Zeller, H. D. 01300  
Carcass Canyon quadrangle: Zeller, H. D. 01301  
Dave Canyon quadrangle: Zeller, H. D. 01298  
Death Ridge quadrangle: Zeller, H. D. 01302  
Griffin Point quadrangle: Bowers, W. E. 00115  
Henry Mountains region: Hunt, C. B. 00543  
Kaiparowits Plateau field: Gregory, H. E. 00458  
**Upper Valley quadrangle: Bowers, W. E. 00114**
- Grand County*  
Book Cliffs field: Fisher, D. J. 00414  
Book Cliffs field: Richardson, G. B. 00951  
Book Cliffs field: Richardson, G. B. 01052  
Thompson area: Clark, F. R. 00231
- Griffin Point quadrangle*  
Garfield County: Bowers, W. E. 00115
- Gunsight Butte quadrangle*  
Kane County: Peterson, Fred. 00877
- Gunsight Butte quadrangle, northeast quarter*  
Kane County: Peterson, Fred. 00880
- Gunsight Butte quadrangle, southeast quarter*  
Kane County: Peterson, Fred. 00881
- Harmony field*  
Iron and Washington Counties: Richardson, G. B. 01051
- Henry Mountains region*  
Garfield and Wayne Counties: Hunt, C. B. 00543
- Henrys Fork field*  
Daggett County: Gale, H. S. 00425  
Daggett County: Gale, H. S. 00426

**Utah—Continued***Iron County*

Cedar Mountain quadrangle: Averitt, Paul. 00040

Harmony and Kolob fields: Richardson, G. B. 01051

Kolob field, western part: Lee, W. T. 00635

*Kaiparowits Plateau field*

Canaan Creek quadrangle, Garfield County: Zeller, H. D. 01300

Carcass Canyon quadrangle, Garfield and Kane Counties: Zeller, H. D. 01301

Cretaceous sedimentation and tectonism: Peterson, Fred. 00879

Dave Canyon quadrangle, Garfield County: Zeller, H. D. 01298

Death Ridge quadrangle, Garfield and Kane Counties: Zeller, H. D. 01302

Garfield and Kane Counties: Gregory, H. E. 00458

Griffin Point quadrangle, Garfield County: Bowers, W. E. 00115

Gunsight Butte quadrangle, Kane County: Peterson, Fred. 00877

Gunsight Butte quadrangle, Kane County: Peterson, Fred. 00880

Gunsight Butte quadrangle, Kane County: Peterson, Fred. 00881

Nipple Butte quadrangle, Kane County: Waldrop, H. A. 01190

Nipple Butte quadrangle, Kane County: Waldrop, H. A. 01191

Nipple Butte quadrangle, Kane County: Waldrop, H. A. 01192

Nipple Butte quadrangle, Kane County: Waldrop, H. A. 01193

Stratigraphy, coal-bearing rocks: Peterson, Fred. 00878

Uppa Valley quadrangle, Garfield County: Bowers, W. E. 00114

*Kanab field*

Kane County: Gregory, H. E. 00457

Kane County: Richardson, G. B. 01051

*Kane County*

Carcass Canyon quadrangle: Zeller, H. D. 01301

Death Ridge quadrangle: Zeller, H. D. 01302

Gunsight Butte quadrangle: Peterson, Fred. 00877

Gunsight Butte quadrangle, northeast quarter: Peterson, Fred. 00880

Gunsight Butte quadrangle, southeast quarter: Peterson, Fred. 00881

Kaiparowits Plateau field: Gregory, H. E. 00458

Kaiparowits Plateau field: Peterson, Fred. 00878

Kaiparowits Plateau field: Peterson, Fred. 00879

Kolob and Kanab fields: Richardson, G. B. 01051

Nipple Butte quadrangle, northeast quarter: Waldrop, H. A. 01191

Nipple Butte quadrangle, northwest quarter: Waldrop, H. A. 01192

**Utah***Kane County*

Nipple Butte quadrangle, southeast quarter: Waldrop, H. A. 01190

Nipple Butte quadrangle, southwest quarter: Waldrop, H. A. 01193

Orderville-Glendale area: Cashion, W. B. 00221

Zion Park region: Gregory, H. E. 00457

*Kolob field*

Iron, Kane, and Washington Counties: Richardson, G. B. 01051

Uranium-bearing coal: Zeller, H. D. 01347

*Kolob field, eastern part*

Kane and Washington Counties: Gregory, H. E. 00457

Orderville-Glendale area, Kane County: Cashion, W. B. 00221

*Kolob field, western part*

Cedar Mountain quadrangle, Iron County: Averitt, Paul. 00040

Iron County: Lee, W. T. 00635

*Lost Creek field*

Morgan County: Clark, F. R. 00233

*Mine bumps*

[See general heading, p. 122.]

*Moon Lake area*

Duchesne County: Huddle, J. W. 00540

*Morgan County*

Lost Creek field: Clark, F. R. 00233

*Mount Pleasant field*

Sanpete County: Duncan, D. C. 00355

*Nipple Butte quadrangle, northeast quarter*

Kane County: Waldrop, H. A. 01191

*Nipple Butte quadrangle, northwest quarter*

Kane County: Waldrop, H. A. 01192

*Nipple Butte quadrangle, southeast quarter*

Kane County: Waldrop, H. A. 01190

*Nipple Butte quadrangle, southwest quarter*

Kane County: Waldrop, H. A. 01193

*Orderville-Glendale area*

Kane County: Cashion, W. B. 00221

*Pleasant Valley district*

Emery County: Taff, J. A. 01113

*Salina Canyon district, Wasatch Plateau field*

Sevier County: Spieker, E. M. 01081

*San Juan County*

Dakota Formation: Gregory, H. E. 00456

Dakota Formation, Montezuma Canyon area: Huff, L. C. 00541

Montezuma Canyon area, uranium-bearing coal: Huff, L. C. 00541

*Sanpete County*

Mount Pleasant field: Duncan, D. C. 00355

Wales field: Clark, F. R. 00232

Wales field: Richardson, G. B. 00950

Wasatch Plateau field: Spieker, E. M. 01080

*Sevier County*

Book Cliffs field: Taff, J. A. 01126

Castle Valley: Lupton, C. T. 00730

Salina Canyon district, Wasatch Plateau field: Spieker, E. M. 01081

Wasatch Plateau field: Spieker, E. M. 01080

**Utah****Summit County**

Coalville field: Wegemann, C. H. 01282  
 Coalville (Weber River) field: Taff, J. A. 01125

**Sunnyside area, Carbon County**

Blackhawk Formation, sedimentary features: Maberry, J. O. 00713  
 Coal-bearing rocks: Brodsky, Harold. 00123  
 Mine bumps, geology applied to study of: Osterwald, F. W. 00795  
 Mine bumps, instrumentation for study of: Maberry, J. O. 00712  
 Seismic events, 1965: Maberry, J. O. 00714  
 Sunnyside No. 1 mine area: Osterwald, F. W. 00794

**Sunnyside quadrangle**

Carbon County: Clark, F. R. 00234

**Thompson area**

Grand County: Clark, F. R. 00231

**Uintah County**

Vernal field: Gale, H. S. 00425; 00426  
 Vernal field: Kinney, D. M. 00607  
 Vernal field, Deep Creek district: Lupton, C. T. 00698

**Upper Valley quadrangle**

Garfield County: Bowers, W. E. 00114

**Uranium-bearing coal**

Box Elder County, Goose Creek district: Mapel, W. J. 00723  
 Cedar Mountain quadrangle, Iron County: Averitt, Paul. 00040  
 Kolob field, Iron County: Zeller, H. D. 01347  
 San Juan County, Montezuma Canyon area: Huff, L. C. 00541

**Vernal field**

Deep Creek district, Uintah County: Lupton, C. T. 00698  
 Duchesne and Uintah Counties: Kinney, D. M. 00607  
 Uintah County: Gale, H. S. 00425; 00426

**Wales field**

Sanpete County: Clark, F. R. 00232  
 Sanpete County: Richardson, G. B. 00950

**Wasatch County**

Blacktail (Tabby) Mountain field: Lupton, C. T. 00699

**Wasatch Plateau field**

Carbon and Emery Counties: Taff, J. A. 01113  
 Carbon, Emery, Sanpete, and Sevier Counties: Spieker, E. M. 01080  
 Salina Canyon district, Sevier County: Spieker, E. M. 01081  
 Sanpete County: Duncan, D. C. 00355

**Washington County**

Harmony and Kolob fields: Richardson, G. B. 01051  
 Zion Park region: Gregory, H. E. 00457

**Wayne County**

Henry Mountains region: Hunt, C. B. 00543

**Weber River field**

Summit County: See Coalville field

**Wellington quadrangle**

Carbon County: Clark, F. R. 00234

**Zion Park region**

Kane and Washington Counties: Gregory, H. E. 00457

**Virginia****Amelia County**

Richmond basin: Shaler, N. S. 01010

**Augusta County**

Staunton quadrangle: Darton, N. H. 00302

**Big Stone Gap field**

Lee, Scott, and Wise Counties: Campbell, M. R. 00177

**Big Stone Gap quadrangle**

Lee and Wise Counties: Miller, R. L. 00767

**Bramwell quadrangle**

Tazewell County: Englund, K. J. 00379

**Bristol quadrangle**

Dickenson, Russell, Scott, and Wise Counties: Campbell, M. R. 00176

**Buchanan County**

Russell Fork field: Stone, R. W. 01105  
 Russell Fork field: Stone, R. W. 01143  
 Tazewell quadrangle: Campbell, M. R. 00174

**Buckingham and adjoining counties**

Farmville area: Woodworth, J. B. 01359

**Chesterfield and adjoining counties**

Richmond basin: Woodworth, J. B. 01359

**Chesterfield County**

Richmond basin: Shaler, N. S. 01010

**Clinch river valley coal fields**

Summary, 1892: D'Invilleers, E. V. 00347

**Coal fields**

Summary, 1952: Brown, Andrew. 00129  
 Summary, 1900: White, David. 01294

**Coal-bearing rocks**

Nomenclature: Miller, R. L. 00768

**Dante area**

Russell County: Stone, R. W. 01104

**Dickenson County**

Bristol quadrangle: Campbell, M. R. 00176  
 Pound quadrangle: Butts, Charles. 00151  
 Russell Fork field: Stone, R. W. 01105  
 Russell Fork field: Stone, R. W. 01143

**Estillville quadrangle**

Lee, Scott, and Wise Counties: Campbell, M. R. 00166

**Farmville area**

Buckingham, Cumberland, and Prince Edward Counties: Woodworth, J. B. 01359

**Goochland County**

Richmond basin: Shaler, N. S. 01010

**Hanover County**

Taylorsville area: Woodworth, J. B. 01359

**Henrico County**

Richmond basin: Shaler, N. S. 01010

**Keokee quadrangle**

Lee County: Miller, R. L. 01331

**Lee County**

Big Stone Gap field: Campbell, M. R. 00177  
 Big Stone Gap quadrangle: Miller, R. L. 00767

Estillville quadrangle: Campbell, M. R. 00166

Keokee quadrangle: Miller, R. L. 01331

Little Black Mountain field, Pocket area:

Fisher, C. A. 00410

Varilla quadrangle: Englund, K. J. 00386

**Little Black Mountain field, Pocket area**

Lee County: Fisher, C. A. 00410

**Virginia—Continued***Paleobotany*

Pennsylvanian rocks: Kosanke, R. M. 00623

*Peat*

Dismal Swamp: Osbon, C. C. 00791

*Pennsylvanian formations*

Nomenclature: Miller, R. L. 00768

*Pocahontas quadrangle*

Taswell County: Campbell, M. R. 00186

*Pocket area, Little Black Mountain field,*

Lee County: Fisher, C. A. 00410

*Pound quadrangle*

Dickenson and Wise Counties: Butts, Charles. 00151

*Powell Mountain field*

Scott and Wise Counties: Campbell, M. R. 00207

Scott County: Campbell, M. R. 00296

*Powhatan County*

Richmond basin: Shaler, N. S. 01010

*Resources*

Summary: Brown, Andrew. 00129

*Richmond basin*

Amelia, Chesterfield, Goochland, Henrico, and Powhatan Counties: Shaler, N. S. 01010

Amelia, Chesterfield, Goochland, Henrico, and Powhatan Counties: Woodworth, J. B. 01359

*Rockingham County*

Staunton quadrangle: Darton, N. H. 00302

*Russell County*

Bristol quadrangle: Campbell, M. R. 00176

Dante area: Stone, R. W. 01104

Tazewell quadrangle: Campbell, M. R. 00174

*Russell Fork field*

Buchanan, Dickenson, and Wise Counties: Stone, R. W. 01105

Buchanan, Dickenson, and Wise Counties: Stone, R. W. 01143

*Scott County*

Big Stone Gap field: Campbell, M. R. 00177

Bristol quadrangle: Campbell, M. R. 00176

Estillville quadrangle: Campbell, M. R. 00166

Powell Mountain field: Campbell, M. R. 00207; 00296

*Staunton quadrangle*

Augusta and Rockingham Counties: Darton, N. H. 00302

*Stratigraphy*

Pennsylvanian rocks, 1890: White, I. C. 01295

*Taswell County*

Pocahontas quadrangle: Campbell, M. R. 00186

*Taylorville area*

Hanover County: Woodworth, J. B. 01359

*Tazewell County*

Bramwell quadrangle: Englund, K. J. 00379

Tazewell quadrangle: Campbell, M. R. 00174

*Tazewell quadrangle*

Buchanan, Russell, and Tazewell Counties: Campbell, M. R. 00174

*Varilla quadrangle*

Lee County: Englund, K. J. 00386

**Virginia***Wise County*

Big Stone Gap field: Campbell, M. R. 00177

Big Stone Gap quadrangle: Miller, R. L. 00767

Bristol quadrangle: Campbell, M. R. 00176

Estillville quadrangle: Campbell, M. R. 00166

Pound quadrangle: Butts, Charles. 00151

Powell Mountain field: Campbell, M. R. 00207

Russell Fork field: Stone, R. W. 01105

Russell Fork field: Stone, R. W. 01143

**Washington***Asotin County*

Grande Ronde River: Russell, I. C. 00984

*Cedar Mountain area*

King County: Willis, Bailey. 01214

*Centralia-Chehalis district*

Lewis and Thurston Counties: Smith, E. E. 01030

Lewis and Thurston Counties: Snively, P. D., Jr. 01047

Lewis and Thurston Counties: Snively, P. D., Jr. 01048

*Clallam Bay area*

Clallam County: Arnold, Ralph. 00019

Clallam County: Diller, J. S. 00342

Clallam County: Gower, H. D. 00453

*Clallam County*

Clallam Bay area: Arnold, Ralph. 00019

Clallam Bay area: Diller, J. S. 00342

Clallam Bay area: Gower, H. D. 00453

Freshwater Bay area: Diller, J. S. 00342

*Coal fields*

General: Smith, E. E. 01030

Summary, 1891: Ruffner, W. H. 00983

Summary, 1900: Smith, G. O. 01031

*Cowlitz County*

Kelso-Castle Rock field: Smith, E. E. 01030

Kelso-Castlerock field: Collier, A. J. 00242

Portland (Kelso-Castle Rock) area: Diller, J. S. 00342

Toledo-Castle Rock district: Roberts, A. E. 00956

*Cowlitz River Valley*

Cowlitz and Lewis Counties: Collier, A. J. 00242

*Cumberland quadrangle*

King County: Vine, J. D. 01179

*Freshwater Bay area*

Clallam County: Diller, J. S. 00342

*Glacier field*

Whatcom County: Woodruff, E. G. 01246

*Grande Ronde River*

Asotin County: Russell, I. C. 00984

*Green River district*

King County: Willis, Bailey. 01214

*Hobart quadrangle*

King County: Vine, J. D. 01179

*Kelso-Castle Rock field*

Cowlitz and Lewis Counties: Collier, A. J. 00242

Cowlitz and Lewis Counties: Smith, E. E. 01030

**Washington***King County*

- Cedar Mountain area: Willis, Bailey. 01214  
 Cumberland, Hobart, and Maple Valley  
 quadrangles: Vine, J. D. 01179  
 Green River district: Willis, Bailey. 01214  
 Newcastle-Issaquah-Grand Ridge area:  
 Willis, Bailey. 01214  
 Northwestern part: Price, C. E. 01057  
 Renton area: Willis, Bailey. 01214  
 Stratigraphy, structure, coal-bearing rocks:  
 Warren, W. G. 01203  
 Tacoma quadrangle: Willis, Bailey. 01215

*Kittitas County*

- Mount Stuart quadrangle: Smith, G. O. 01032  
 Snoqualmie quadrangle: Smith, G. O. 01033

*Lewis County*

- Centralia-Chehalis district: Smith, E. E.  
 01030  
 Centralia-Chehalis district: Snavelly, P. D., Jr.  
 01047  
 Centralia-Chehalis district: Snavelly, P. D., Jr.  
 01048  
 Kelso-Castle Rock field: Smith, E. E. 01030  
 Kelso-Castlerock field: Collier, A. J. 00242  
 Toledo-Castle Rock district: Roberts, A. E.  
 00956

*Maple Valley quadrangle*

- King County: Vine, J. D. 01179

*Mount Stuart quadrangle*

- Kittitas County: Smith, G. O. 01032

*Newcastle-Issaquah-Grand Ridge area*

- King County: Willis, Bailey. 01214

*Pierce County*

- Tacoma quadrangle: Willis, Bailey. 01215  
 Wilkeson-Carbonado field: Willis, Bailey.  
 01214

*Portland (Kelso-Castle Rock) area*

- Cowlitz County: Diller, J. S. 00342

*Pyshd quadrangle*

- Clallam Bay area, Clallam County: Gower, H.  
 D. 00453

*Renton area*

- King County: Willis, Bailey. 01214; 01215

*Roslyn field*

- Mount Stuart quadrangle, Kittitas County:  
 Smith, G. O. 01032  
 Snoqualmie quadrangle, Kittitas County:  
 Smith, G. O. 01033

*Skagit County*

- General: Smith, E. E. 01030

*Snoqualmie quadrangle*

- Kittitas County: Smith, G. O. 01033

*Stevens County*

- Turtle Lake quadrangle: Becraft, G. E. 00090

*Tacoma quadrangle*

- Pierce and King Counties: Willis, Bailey. 01215

*Thurston County*

- Centralia-Chehalis district: Smith, E. E.  
 01030  
 Centralia-Chehalis district: Snavelly, P. D., Jr.  
 01047  
 Centralia-Chehalis district: Snavelly, P. D., Jr.  
 01048

**Washington***Toledo-Castle Rock district*

- Cowlitz and Lewis Counties: Roberts, A. E.  
 00956

*Turtle Lake quadrangle*

- Stevens County: Becraft, G. E. 00090

*Whatcom County*

- Glacier field: Woodruff, E. G. 01246

*Wilkeson-Carbonado field*

- Pierce County: Willis, Bailey. 01214  
 Tacoma quadrangle, Pierce County: Willis,  
 Bailey. 01215

**Weathering of coal***Wyoming*

- Green River region, Sweetwater County:  
 Schultz, A. R. 00995

**West Virginia***Abram Creek-Stony River field*

- Grant, Mineral, and Tucker Counties: Ashley,  
 G. H. 00036

*Accident quadrangle*

- Preston County: Martin, G. C. 00740

*Barbour County*

- Buckhannon quadrangle: Taff, J. A. 01116  
 Roaring Creek field: Weeks, J. D. 01276

*Berkeley County*

- Hancock quadrangle: Stose, G. W. 01141  
 Meadow Branch field: Campbell, M. R. 00171

*Boone County*

- Charleston quadrangle: Campbell, M. R.  
 00188  
 Raleigh quadrangle: Campbell, M. R. 00189

*Bramwell quadrangle*

- McDowell and Myer Counties: Englund, K.  
 J. 00379

*Braxton County*

- Buckhannon quadrangle: Taff, J. A. 01116

*Brooke and Hancock Counties*

- Steubenville quadrangle: Griswold, W. T.  
 00460

*Buckhannon quadrangle*

- Barbour, Braxton, Lewis, Randolph, Upshur,  
 and Webster Counties: Taff, J. A. 01116

*Cabell County*

- Huntington quadrangle: Campbell, M. R.  
 00187

*Charleston quadrangle*

- Boone, Kanawha, Lincoln, Logan, and  
 Putnam Counties: Campbell, M. R. 00188

*Clay County*

- Nicholas quadrangle: Ashley, G. H. 00028

*Fayette County*

- Raleigh quadrangle: Campbell, M. R. 00189

*Franklin quadrangle*

- Grant, Pendleton, and Tucker Counties:  
 Darton, N. H. 00303

*Grant County*

- Abram Creek-Stony River field: Ashley, G.  
 H. 00036  
 Franklin quadrangle: Darton, N. H. 00303  
 Piedmont quadrangle: Darton, N. H. 00320  
 Potomac field: Weeks, J. D. 01276

*Hampshire County*

- Pawpaw quadrangle: Stose, G. W. 01141

**West Virginia—Continued***Hancock quadrangle*

Berkeley and Morgan Counties: Stose, G. W. 01141

*Harrison area, Thomas bed*

Mineral County: Campbell, M. R. 00298

*Huntington quadrangle*

Cabell, Lincoln, Logan, Putnam, and Wayne Counties: Campbell, M. R. 00187

*Kanawha County*

Charleston quadrangle: Campbell, M. R. 00188

Raleigh quadrangle: Campbell, M. R. 00189

*Kanawha River Valley*

Coal mining, 1883-1884: Buck, S. M. 00135

*Kenova quadrangle*

Wayne County: Phalen, W. C. 00883

Wayne County: Phalen, W. C. 00886

Wayne County: Phalen, W. C. 00888

*Lewis County*

Buckhannon quadrangle: Taff, J. A. 01116

*Lincoln County*

Charleston quadrangle: Campbell, M. R. 00188

Huntington quadrangle: Campbell, M. R. 00187

*Logan County*

Charleston quadrangle: Campbell, M. R. 00188

Huntington quadrangle: Campbell, M. R. 00187

*McDowell County*

Bramwell quadrangle: Englund, K. J. 00379

Pocahontas quadrangle: Campbell, M. R. 00186

Tazewell quadrangle: Campbell, M. R. 00174

*Meadow Branch field*

Berkeley and Morgan Counties: Campbell, M. R. 00171

Hancock quadrangle, Berkeley and Morgan Counties: Stose, G. W. 01141

*Mercer County*

Pocahontas quadrangle: Campbell, M. R. 00186

Raleigh quadrangle: Campbell, M. R. 00189

*Mineral County*

Abram Creek-Stony River field: Ashley, G. H. 00036

Harrison area, Thomas bed: Campbell, M. R. 00298

Piedmont quadrangle: Darton, N. H. 00320

Potomac field: Weeks, J. D. 01276

*Monterey quadrangle*

Pocahontas and Randolph Counties: Darton, N. H. 00304

*Morgan County*

Meadow Branch field: Campbell, M. R. 00171

Pawpaw-Hancock quadrangles: Stose, G. W. 01141

*Myer County*

Bramwell quadrangle: Englund, K. J. 00379

*New and Kanawha Rivers*

Geologic sections: Campbell, M. R. 00202

*Nicholas County*

Nicholas quadrangle: Ashley, G. H. 00028

**West Virginia***Nicholas quadrangle*

Clay and Nicholas Counties: Ashley, G. H. 00028

*Northeastern part*

Grant, Mineral, and Tucker Counties: Ashley, G. H. 00036

*Paleobotany*

Pennsylvanian rocks: Kosanke, R. M. 00623

Pennsylvanian rocks: Kosanke, R. M. 00624

*Pawpaw quadrangle*

Hampshire and Morgan Counties: Stose, G. W. 01141

*Peat*

Distribution, type, resources: Cameron, C. C. 01320

*Pendleton County*

Franklin quadrangle: Darton, N. H. 00303

Staunton quadrangle: Darton, N. H. 00302

*Piedmont quadrangle*

Grant, Mineral, Preston, and Tucker Counties: Darton, N. H. 00320

*Pocahontas County*

Monterey quadrangle: Darton, N. H. 00304

*Pocahontas quadrangle*

McDowell, Mercer, and Wyoming Counties: Campbell, M. R. 00186

*Potomac field*

Grant, Mineral, Preston, Randolph, and Tucker Counties: Weeks, J. D. 01276

*Preston County*

Accident quadrangle: Martin, G. C. 00740

Piedmont quadrangle: Darton, N. H. 00320

Potomac field: Weeks, J. D. 01276

*Putnam County*

Charleston quadrangle: Campbell, M. R. 00188

Huntington quadrangle: Campbell, M. R. 00187

*Raleigh County*

Raleigh quadrangle: Campbell, M. R. 00189

*Raleigh quadrangle*

Boone, Fayette, Kanawha, Mercer, Raleigh, Summers, and Wyoming Counties:

Campbell, M. R. 00189

*Randolph County*

Buckhannon quadrangle: Taff, J. A. 01116

Monterey quadrangle: Darton, N. H. 00304

Potomac and Roaring Creek fields: Weeks, J. D. 01276

Roaring Creek field: Englund, K. J. 00381

*Roaring Creek field*

Barbour and Randolph Counties: Weeks, J. D. 01276

Randolph County: Englund, K. J. 00381

*Spirit leveling*

1896-1908: Ganett, S. S. 00428

1896-1915: Marshall, R. B. 00731

*Staunton quadrangle*

Pendleton County: Darton, N. H. 00302

*Steubenville quadrangle*

Brooke and Hancock Counties: Griswold, W. T. 00460

*Summers County*

Raleigh quadrangle: Campbell, M. R. 00189

**West Virginia***Tazewell quadrangle*

McDowell and Wyoming Counties: Campbell, M. R. 00174

*Tucker County*

Abram Creek-Stony River field: Ashley, G. H. 00036

Franklin quadrangle: Darton, N. H. 00303

Piedmont quadrangle: Darton, N. H. 00320

Potomac field: Weeks, J. D. 01276

*Upshur County*

Buckhannon quadrangle: Taff, J. A. 01116

*Wayne County*

Fallsburg quadrangle: Sharps, J. A. 01006

Huntington quadrangle: Campbell, M. R. 00187

Kenova quadrangle: Phalen, W. C. 00883

Kenova quadrangle: Phalen, W. C. 00886

Kenova quadrangle: Phalen, W. C. 00888

*Webster County*

Buckhannon quadrangle: Taff, J. A. 01116

*Wyoming County*

Pocahontas quadrangle: Campbell, M. R. 00186

Raleigh quadrangle: Campbell, M. R. 00189

Tazewell quadrangle: Campbell, M. R. 00174

**Western Interior basin***Coal fields*

Summary, 1900: Bain, H. F. 00048

*Minor elements in coal*

Geochemical and geographic distribution:

Zubovic, Peter. 01305

**Western United States***Coking coal*

Summary, 1965: Averitt, Paul. 00041

Summary, 1950: Berryhill, L. R. 00107

**Wood, fossil***Potomac Formation*

Atlantic Coastal Plain: Knowlton, F. H. 00618

**Wyoming***Adam Weiss Peak quadrangle*

Hot Springs and Park Counties: Rohrer, W. L. 00971

Hot Springs and Park Counties: Rohrer, W. L. 00972

*Aladdin field*

Aladdin quadrangle, Crook County: Darton, N. H. 00314

Crook County: Darton, N. H. 00311

*Aladdin quadrangle*

Crook County: Darton, N. H. 00314

*Albany County*

Bengough Hill quadrangle: Hyden, H. J. 00548

Bosler quadrangle: McAndrews, Harry. 00704

Cooper Lake North quadrangle: McAndrews, Harry. 00703

Lake Ione quadrangle: McAndrews, Harry. 00705

Laramie quadrangle: Darton, N. H. 00313

Pierce Reservoir quadrangle: Hyden, H. J. 00547

Rock Creek field: Darton, N. H. 00318

Rock Creek field: Dobbin, C. E. 00351

**Wyoming***Albany County*

Rock Creek field: Hyden, H. J. 00551

Rock Creek field: Siebenthal, C. E. 01019

Rock River quadrangle: Hyden, H. J. 00546

*Alkali Buttes field*

Fremont County: Thompson, R. M. 01130

*Arlington quadrangle*

Carbon County: Hyden, H. J. 00549

*Bairoil quadrangle*

Carbon and Sweetwater Counties: Reynolds, M. W. 00936

*Barber field*

Johnson County: Wegemann, C. H. 01280

*Beaver Creek field*

Fremont County: Thompson, R. M. 01130

*Bengough Hill quadrangle*

Albany and Carbon Counties: Hyden, H. J. 00548

*Big Horn County*

Bighorn basin: Fisher, C. A. 00407

Bighorn basin: Fisher, C. A. 00469

Bighorn basin: Fisher, C. A. 00470

Bighorn basin, northeastern part: Washburne, C. W. 01204

*Big Sand Draw field*

Fremont County: Thompson, R. M. 01130

*Bighorn basin*

Adam Weiss Peak quadrangle, Hot Springs and Park Counties: Rohrer, W. L. 00971

Adam Weiss Peak quadrangle, Hot Springs and Park Counties: Rohrer, W. L. 00972

Big Horn, Hot Springs, Park, and Washakie Counties: Fisher, C. A. 00407

Big Horn, Hot Springs, Park, and Washakie Counties: Fisher, C. A. 00469

Big Horn, Hot Springs, Park, and Washakie Counties: Fisher, C. A. 00470

Oregon Basin, Meeteetse, and Grass Creek quadrangles, Hot Springs and Park Counties: Hewett, D. F. 00517

Park County: Pierce, W. G. 00895

Structure, stratigraphy, coal-bearing rocks:

Eldridge, G. H. 00361

*Bighorn basin, northeastern part*

Big Horn and Park Counties: Washburne, C. W. 01204

*Bighorn basin, southeastern part*

Hot Springs and Washakie Counties:

Woodruff, E. G. 01243

*Bighorn basin, southwestern part*

Park and Hot Springs Counties: Woodruff, E. G. 01242

*Bighorn Mountains region*

Johnson and Sheridan Counties: Darton, N. H. 00308

Johnson and Sheridan Counties: Darton, N. H. 00309

*Black Hills region*

Campbell and Crook Counties, geologic and structure contour map: Mapel, W. J. 00726

Crook and Weston Counties: Darton, N. H. 00311

*Bosler quadrangle*

Albany County: McAndrews, Harry. 00704

**Wyoming—Continued***Bradley Peak quadrangle*

Carbon County: Bayley, R. W. 00077

*Buffalo field*

Johnson and Sheridan Counties: Gale, H. S. 00427

*Buffalo-Lake DeSmet area*

Johnson and Sheridan Counties: Mapel, W. J. 00727; 00728; 00729

*Cambria field*

Crook and Weston Counties: Darton, N. H. 00306

Crook and Weston Counties: Stone, R. W. 01142

Four Corners quadrangle, Weston County: Van Lieu, J. A. 01168

Inyan Kara Mountain quadrangle, Crook and Weston Counties: Mapel, W. J. 00724

Nefsy Divide quadrangle, Crook County: Pillmore, C. L. 00899

Newcastle area, Weston County: Mapel, W. J. 00725

Newcastle quadrangle, Weston County: Darton, N. H. 00305

Sundance quadrangle, Crook and Weston Counties: Darton, N. H. 00307

Weston County: Darton, N. H. 00311

*Campbell County*

Black Hills region, geologic and structure contour map: Mapel, W. J. 00726

Gillette field: Dobbin, C. E. 00349

Gillette field: Thom, W. T., Jr. 01127

Little Powder River field: Davis, J. A. 00331

Powder River basin, northern part: Stone, R. W. 01108

Pumpkin Buttes field: Wegemann, C. H. 01283

Spotted Horse field: Olive, W. W. 00789

*Carbon County*

Arlington quadrangle: Hyden, H. J. 00549

Bairoil quadrangle: Reynolds, M. W. 00936

Bengough Hill quadrangle: Hyden, H. J. 00548

Bradley Peak quadrangle: Bayley, R. W. 00077

Great Divide Basin: Smith, E. E. 01029

Hanna field: Dobbin, C. E. 00350

Hanna field: Veatch, A. C. 01174

Lamont quadrangle: Reynolds, M. W. 00935

Little Snake River field, eastern part: Ball, M. W. 00052

Little Snake River field, western part: Ball, M. W. 00051

Muddy Gap quadrangle: Reynolds, M. W. 00937

Pierce Reservoir quadrangle: Hyden, H. J. 00547

Rawlins field: Dobbin, C. E. 00350

Rawlins field: Veatch, A. C. 01174

Riddle Cut quadrangle: McAndrews, Harry. 00702

Rock Creek field: Darton, N. H. 00318

Rock Creek field: Dobbin, C. E. 00351

Rock Creek field: Siebenthal, C. E. 01019

T L Ranch quadrangle: Hyden, H. J. 00550

**Wyoming***Carbon County*

Whiskey Peak quadrangle: Reynolds, M. W. 01054

*Coal fields*

Map: Berryhill, H. L., Jr. 00103

Summary, 1950: Berryhill, H. L., Jr. 00102

Summary, 1893: Hewett, G. C. 00518

Summary, 1894: Knight, W. C. 00617

Summary, 1900: Storrs, L. S. 01109

*Converse County*

Gillette field: Dobbin, C. E. 00349

Glenrock field: Shaw, E. W. 01007

Lost Springs field: Winchester, D. E. 01217

Pumpkin Buttes field: Wegemann, C. H. 01283

Sussex field: Wegemann, C. H. 01279

*Cooper Lake North quadrangle*

Albany County: McAndrews, Harry. 00703

*Crazy Woman Creek area*

Johnson County: Hose, R. K. 00535

Johnson County: Hose, R. K. 00536

*Crook County*

Aladdin and Sundance fields: Darton, N. H. 00311

Aladdin quadrangle: Darton, N. H. 00314

Black Hills region, geologic and structure

contour map: Mapel, W. J. 00726

Cambria field: Darton, N. H. 00306

Cambria field: Stone, R. W. 01142

Devils Tower quadrangle: Darton, N. H.

00315

Gillette field: Dobbin, C. E. 00349

Inyan Kara Mountain quadrangle: Mapel, W. J. 00724

Nefsy Divide quadrangle: Pillmore, C. L. 00899

Sundance quadrangle: Darton, N. H. 00307

*Dayton quadrangle*

Sheridan County: Darton, N. H. 00316

*Devils Tower quadrangle*

Crook County: Darton, N. H. 00315

*Du Noir area*

Fremont County: Keefer, W. R. 00585

*Evanston field*

Uinta County: Schultz, A. R. 00992

Uinta County: Veatch, A. C. 01173

Uinta County, southern part: Veatch, A. C. 01172

*Fort Hill quadrangle*

Lincoln County: Oriel, S. S. 00790

*Fort McKinney quadrangle*

Johnson County: Darton, N. H. 00317

*Four Corners quadrangle*

Weston County: Van Lieu, J. A. 01168

*Fremont County*

Alkali Buttes, Big Sand Draw, and Beaver

Creek fields: Thompson, R. M. 01130

Du Noir area: Keefer, W. R. 00585

Great Divide Basin: Smith, E. E. 01029

Lander field: Woodruff, E. G. 01240

Riverton area: Thompson, R. M. 01131

Shotgun Butte area: Keefer, W. R. 00586

Shotgun Butte area: Troyer, M. L. 01148



**Wyoming***Fremont County*

Steamboat Butte-Pilot Butte area: Murphy, J. F. 00786

Whiskey Peak quadrangle: Reynolds, M. W. 01054

Wind River basin: Winchester, D. E. 01221

*Gillette field*

Campbell, Converse, Crook, Niobrara, and Weston Counties: Dobbin, C. E. 00349

Campbell County: Thom, W. T., Jr. 01127

*Glenrock field*

Converse and Natrona Counties: Shaw, E. W. 01007

*Goshen County*

Geology and ground-water resources: Rapp, J. R. 01334

Goshen Hole field: Adams, G. I. 00001

*Goshen Hole field*

Goshen County: Adams, G. I. 00001

Goshen County: Rapp, J. R. 01334

*Grass Creek Basin quadrangle*

Hot Springs County: Hewett, D. F. 00517

*Grays River area*

Lincoln County: Schultz, A. R. 01357

Lincoln County: Schultz, A. R. 00996

*Great Divide Basin*

Carbon, Fremont, and Sweetwater Counties: Smith, E. E. 01029

Sweetwater County, uranium-bearing coal: Pipingos, G. N. 00901

Sweetwater County, uranium-bearing coal: Pipingos, G. N. 00902

*Green River region*

Bairoil quadrangle, Carbon and Sweetwater Counties: Reynolds, M. W. 00936

Great Divide basin, Carbon, Fremont, and Sweetwater Counties: Smith, E. E. 01029

Lamont quadrangle, Carbon County: Reynolds, M. W. 00935

Lincoln County: Schultz, A. R. 00996

Little Snake River field, Carbon and Sweetwater Counties: Ball, M. W. 00051

Little Snake River field, Carbon County: Ball, M. W. 00052

Muddy Gap quadrangle, Carbon County: Reynolds, M. W. 00937

Rock Springs field, Sweetwater County: Schultz, A. R. 00993

Rock Springs field, Sweetwater County: Schultz, A. R. 00994

Sweetwater County, Great Divide basin, uranium-bearing coal: Pipingos, G. N. 00901

Sweetwater County, Great Divide basin, uranium-bearing coal: Pipingos, G. N. 00902

Sweetwater County, Red Desert area, uranium-bearing coal: Masursky, Harold. 00752

Sweetwater County, Red Desert area, uranium-bearing coal: Masursky, Harold. 00753

**Wyoming***Green River region*

Sweetwater County, Red Desert area, uranium-bearing coal: Masursky, Harold. 00754

Weathering of coal: Schultz, A. R. 00995

Whiskey Peak quadrangle, Carbon, Fremont, and Sweetwater Counties: Reynolds, M. W. 01054

*Hams Fork region*

Fort Hill quadrangle, Lincoln County: Oriol, S. S. 00790

Kemmerer quadrangle, Lincoln County: Rubey, W. W. 00981

Lincoln County: Schultz, A. R. 00996

Lincoln County, Grays River area: Schultz, A. R. 01357

Sage quadrangle, Lincoln County: Rubey, W. W. 00982

Uinta and Lincoln Counties: Veatch, A. C. 01173

Uinta County, southern part: Veatch, A. C. 01172

Uinta, Lincoln, and Sublette Counties: Schultz, A. R. 00992

Willow Creek area, Kemmerer field, Lincoln County: Andrews, D. A. 00012

*Hanna field*

Bradley Peak quadrangle, Carbon County: Bayley, R. W. 00077

Carbon County: Dobbin, C. E. 00350

Carbon County: Veatch, A. C. 01174

Riddle Cut quadrangle, Carbon County: McAndrews, Harry. 00702

T L Ranch quadrangle, Carbon County: Hyden, H. J. 00550

*Hiland-Clarkson Hill area*

Natrona County: Rich, E. I. 00947

*Hot Springs County*

Adam Weiss Peak quadrangle: Rohrer, W. L. 00971

Adam Weiss Peak quadrangle: Rohrer, W. L. 00972

Bighorn basin: Fisher, C. A. 00407

Bighorn basin: Fisher, C. A. 00469

Bighorn basin: Fisher, C. A. 00470

Bighorn basin, southeastern part: Woodruff, E. G. 01243

Bighorn basin, southwestern part: Woodruff, E. G. 01242

Grass Creek Basin quadrangle: Hewett, D. F. 00517

*Inyan Kara Mountain quadrangle*

Crook and Weston Counties: Mapel, W. J. 00724

*Jackson Hole area*

Sheridan Pass quadrangle, Teton County: Rohrer, W. L. 00973

Teton County: Love, J. D. 00696

*Johnson County*

Barber field: Wegemann, C. H. 01280

Bighorn Mountains region: Darton, N. H. 00308

Bighorn Mountains region: Darton, N. H. 00309

**Wyoming—Continued***Johnson County*

- Buffalo field: Gale, H. S. 00427  
 Buffalo-Lake DeSmet area: Mapel, W. J. 00727;  
 00728; 00729  
 Crazy Woman Creek area: Hose, R. K. 00535  
 Crazy Woman Creek area: Hose, R. K. 00536  
 Fort McKinney quadrangle: Darton, N. H.  
 00317  
 Lake DeSmet area: Mapel, W. J. 00727; 00728; 00729  
 Powder River basin, northern part: Stone, R.  
 W. 01108  
 Pumpkin Buttes field: Wegemann, C. H.  
 01283  
 Sussex field: Wegemann, C. H. 01279

*Kemmerer field*

- Lincoln County: Schultz, A. R. 00992  
 Lincoln County: Schultz, A. R. 00996  
 Lincoln County: Veatch, A. C. 01173  
 Willow Creek area, Lincoln County:  
 Andrews, D. A. 00012

*Kemmerer quadrangle*

- Lincoln County: Rubey, W. W. 00981

*Lake DeSmet area*

- Johnson County: Mapel, W. J. 00727; 00728; 00729

*Lake Ione quadrangle*

- Albany County: McAndrews, Harry. 00705

*Lamont quadrangle*

- Carbon County: Reynolds, M. W. 00935

*Lander field*

- Fremont County: Woodruff, E. G. 01240

*Laramie quadrangle*

- Albany County: Darton, N. H. 00313

*Lincoln County*

- Fort Hill quadrangle: Oriol, S. S. 00790  
 Grays River area: Schultz, A. R. 01357  
 Grays River area: Schultz, A. R. 00996  
 Green River region: Schultz, A. R. 00996  
 Hams Fork region: Schultz, A. R. 00996  
 Kemmerer field: Schultz, A. R. 00992  
 Kemmerer field: Schultz, A. R. 00996  
 Kemmerer field: Veatch, A. C. 01173  
 Kemmerer quadrangle: Rubey, W. W. 00981  
 Sage quadrangle: Rubey, W. W. 00982  
 Willow Creek area, Kemmerer field: Andrews,  
 D. A. 00012

*Little Powder River field*

- Campbell County: Davis, J. A. 00331

*Little Snake River field, eastern part*

- Carbon County: Ball, M. W. 00052

*Little Snake River field, western part*

- Carbon and Sweetwater Counties: Ball, M.  
 W. 00051

*Lost Springs field*

- Converse County: Winchester, D. E. 01217

*McDougal field*

- Lincoln, Sublette, and Teton Counties:  
 Schultz, A. R. 01357

*Meeteetse quadrangle*

- Park County: Hewett, D. F. 00517

**Wyoming***Minturn district*

- Campbell County: Thom, W. T., Jr. 011

*Muddy Gap quadrangle*

- Carbon County: Reynolds, M. W. 00937

*Natrona County*

- Glenrock field: Shaw, E. W. 01007  
 Hiland-Clarkson Hill area: Rich, E. I. 009  
 Sussex field: Wegemann, C. H. 01279  
 Wind River basin: Winchester, D. E. 012

*Nefsy Divide quadrangle*

- Crook County: Pillmore, C. L. 00899

*Newcastle area*

- Weston County: Mapel, W. J. 00725

*Newcastle quadrangle*

- Weston County: Darton, N. H. 00305

*Niobrara County*

- Gillette field: Dobbin, C. E. 00349

*Oregon Basin quadrangle*

- Park County: Hewett, D. F. 00517

*Park County*

- Adam Weiss Peak quadrangle: Rohrer, W.  
 00971

- Adam Weiss Peak quadrangle: Rohrer, W.  
 00972

- Bighorn basin: Fisher, C. A. 00407

- Bighorn basin: Fisher, C. A. 00469

- Bighorn basin: Fisher, C. A. 00470

- Bighorn basin: Pierce, W. G. 00895

- Bighorn basin, northeastern part: Washburn  
 C. W. 01204

- Bighorn basin, southwestern part: Woodruff  
 E. G. 01242

- Oregon Basin and Meeteetse quadrangles:

- Hewett, D. F. 00517

*Pierce Reservoir quadrangle*

- Albany and Carbon Counties: Hyden, H.  
 00547

*Powder River basin*

- Barber field, Johnson County: Wegemann, C.  
 H. 01280

- Bighorn Mountains region, Johnson and  
 Sheridan Counties: Darton, N. H. 0030

- Bighorn Mountains region, Johnson and  
 Sheridan Counties: Darton, N. H. 0030

- Buffalo field, Johnson and Sheridan Counties:  
 Gale, H. S. 00427

- Buffalo-Lake DeSmet area, Johnson and  
 Sheridan Counties: Mapel, W. J. 00727;  
 00728; 00729

- Crazy Woman Creek area, Johnson County:  
 Hose, R. K. 00535

- Crazy Woman Creek area, Johnson County:  
 Hose, R. K. 00536

- Dayton quadrangle, Sheridan County:  
 Darton, N. H. 00316

- Fort McKinney quadrangle, Johnson County:  
 Darton, N. H. 00317

- Gillette field, Campbell, Converse, Crook,  
 Niobrara, and Weston Counties: Dobbin,  
 C. E. 00349

- Glenrock field, Converse and Natrona  
 Counties: Shaw, E. W. 01007

- Lake DeSmet area, Johnson County: Mapel,  
 W. J. 00727; 00728; 00729

## Wyoming

*Powder River basin*

Little Powder River field, Campbell County:  
Davis, J. A. 00331

Lost Springs field, Converse County:  
Winchester, D. E. 01217

Minturn district, Campbell County: Thom,  
W. T., Jr. 01127

Northern part, Campbell, Johnson, and  
Sheridan Counties: Stone, R. W. 01108

Pumpkin Buttes field, Campbell, Converse,  
and Johnson Counties: Wegemann, C. H.  
01283

Sheridan field, Sheridan County: Taff, J. A.  
01114

Spotted Horse field, Sheridan and Campbell  
Counties: Olive, W. W. 00789

Structure, stratigraphy, coal-bearing rocks:  
Eldridge, G. H. 00361

Sussex field, Johnson, Natrona, and Converse  
Counties: Wegemann, C. H. 01279

*Pumpkin Buttes field*

Campbell, Converse, and Johnson Counties:  
Wegemann, C. H. 01283

*Rawlins field*

Carbon County: Dobbin, C. E. 00350

Carbon County: Veatch, A. C. 01174

*Red Desert area, Sweetwater County*

Uranium-bearing coal: Masursky, Harold.  
00752; 00753; 00754

*Resources*

Summary: Berryhill, H. L., Jr. 00102

*Riddle Cut quadrangle*

Carbon County: McAndrews, Harry. 00702

*Riverton area*

Fremont County: Thompson, R. M. 01131

*Rock Creek field*

Albany and Carbon Counties: Darton, N. H.  
00318

Albany and Carbon Counties: Dobbin, C. E.  
00351

Albany and Carbon Counties: Siebenthal, C.  
E. 01019

Albany County: Hyden, H. J. 00551

Arlington quadrangle, Carbon County:  
Hyden, H. J. 00549

Bengough Hill quadrangle, Albany and Carbon  
Counties: Hyden, H. J. 00548

Bosler quadrangle, Albany County:  
McAndrews, Harry. 00704

Cooper Lake North quadrangle, Albany  
County: McAndrews, Harry. 00703

Lake Lone quadrangle, Albany County:  
McAndrews, Harry. 00705

Laramie quadrangle, Albany County: Darton,  
N. H. 00313

Pierce Reservoir quadrangle, Albany and  
Carbon Counties: Hyden, H. J. 00547

Rock River quadrangle, Albany County:  
Hyden, H. J. 00546

*Rock River quadrangle*

Albany County: Hyden, H. J. 00546

## Wyoming

*Rock Springs field, northern part*

Sweetwater County: Schultz, A. R. 00993

*Rock Springs field, southern part*

Sweetwater County: Schultz, A. R. 00994

*Sage quadrangle*

Lincoln County: Rubey, W. W. 00982

*Sheridan County*

Bighorn Mountains region: Darton, N. H.  
00308

Bighorn Mountains region: Darton, N. H.  
00309

Buffalo field: Gale, H. S. 00427

Buffalo-Lake DeSmet area: Mapel, W. J. 00727;  
00728; 00729

Dayton quadrangle: Darton, N. H. 00316

Powder River basin, northern part: Stone, R.  
W. 01108

Sheridan field: Taff, J. A. 01114

Spotted Horse field: Olive, W. W. 00789

*Sheridan field*

Sheridan County: Taff, J. A. 01114

*Sheridan Pass quadrangle*

Teton and Fremont Counties: Rohrer, W. L.  
00973

*Shotgun Butte area*

Fremont County: Keefer, W. R. 00586

Fremont County: Troyer, M. L. 01148

*Skull Creek field*

Weston County: Darton, N. H. 00311

*Spotted Horse field*

Sheridan and Campbell Counties: Olive, W.  
W. 00789

*Steamboat Butte-Pilot Butte area*

Fremont County: Murphy, J. F. 00786

*Stratigraphy, coal-bearing rocks*

1905: Leonard, A. G. 00650

*Sublette County*

General: Schultz, A. R. 00992

*Sundance field*

Crook County: Darton, N. H. 00311

*Sundance quadrangle*

Crook and Weston Counties: Darton, N. H.  
00307

*Sussex field*

Johnson, Natrona, and Converse Counties:  
Wegemann, C. H. 01279

*Sweetwater County*

Bairoil quadrangle: Reynolds, M. W. 00936

Great Divide Basin: Smith, E. E. 01029

Great Divide basin, uranium-bearing coal:  
Pipiringos, G. N. 00901

Great Divide basin, uranium-bearing coal:  
Pipiringos, G. N. 00902

Little Snake River field, western part: Ball, M.  
W. 00051

Red Desert area, uranium-bearing coal:  
Masursky, Harold. 00752

Red Desert area, uranium-bearing coal:  
Masursky, Harold. 00753

Red Desert area, uranium-bearing coal:  
Masursky, Harold. 00754

Rock Springs field, northern part: Schultz, A.  
R. 00993

**Wyoming—Continued***Sweetwater County*

Rock Springs field, southern part: Schultz, A. R. 00994

Weathering of coal: Schultz, A. R. 00995

Whiskey Peak quadrangle: Reynolds, M. W. 01054

*T L Ranch quadrangle*

Carbon County: Hyden, H. J. 00550

*Teton County*

Jackson Hole area: Love, J. D. 00696

Sheridan Pass quadrangle: Rohrer, W. L. 00973

*Uinta County*

Evanston field: Schultz, A. R. 00992

Evanston field: Veatch, A. C. 01172

Evanston field: Veatch, A. C. 01173

*Uranium-bearing coal*

Sweetwater County, Great Divide basin:

Pipiringos, G. N. 00901

Sweetwater County, Great Divide basin:

Pipiringos, G. N. 00902

Sweetwater County, Red Desert area:

Masursky, Harold. 00752

Sweetwater County, Red Desert area:

Masursky, Harold. 00753

Sweetwater County, Red Desert area:

Masursky, Harold. 00754

*Washakie County*

Bighorn basin: Fisher, C. A. 00407

Bighorn basin: Fisher, C. A. 00469

Bighorn basin: Fisher, C. A. 00470

Bighorn basin, southeastern part: Woodruff, E. G. 01243

*Weston County*

Cambria and Skull Creek fields: Darton, N. H. 00311

Cambria field: Darton, N. H. 00306

Cambria field: Stone, R. W. 01142

Four Corners quadrangle: Van Lieu, J. A. 01168

Gillette field: Dobbin, C. E. 00349

Inyan Kara Mountain quadrangle: Mapel, W. J. 00724

Newcastle area: Mapel, W. J. 00725

Newcastle quadrangle: Darton, N. H. 00305

Sundance quadrangle: Darton, N. H. 00307

*Whiskey Peak quadrangle*

Carbon, Fremont, and Sweetwater Counties:

Reynolds, M. W. 01054

*Willow Creek area, Kemmerer field*

Lincoln County: Andrews, D. A. 00012

Lincoln County: Veatch, A. C. 01173

*Wind River basin*

Alkali Buttes, Big Sand Draw, and Beaver Creek fields, Fremont County: Thompson, R. M. 01130

Du Noir area, Fremont County: Keefer, W. R. 00585

Fremont and Natrona Counties: Winchester, D. E. 01221

Hiland-Clarkson Hill area, Natrona County: Rich, E. I. 00947

Lander field, Fremont County: Woodruff, E. G. 01240

**Wyoming***Wind River basin*

Riverton area, Fremont County: Thompson, R. M. 01131

Shotgun Butte area, Fremont County: Keefer, W. R. 00586

Shotgun Butte area, Fremont County: Troyer, M. L. 01148

Steamboat Butte-Pilot Butte area, Fremont County: Murphy, J. F. 00786

Structure, stratigraphy, coal-bearing rocks:

Eldridge, G. H. 00361

## LIBRARIES

Many of the U.S. Geological Survey publications on coal listed on the preceding pages may be consulted in the following libraries:

### ALABAMA

- Alexander City:  
Junior College.
- Auburn:  
Auburn University.
- Birmingham:  
Birmingham Southern College.  
Howard College.  
Public.
- Gadsden:  
Public.
- Mobile (Spring Hill):  
Thomas Byrne Memorial Library.  
University of South Alabama.
- Montgomery:  
Department of Archives and History.
- Normal:  
Alabama Agricultural and Mechanical College.
- Troy:  
Troy State College.
- Tuscaloosa:  
Geological Survey of Alabama.  
University of Alabama.
- Tuskegee:  
Tuskegee Institute.

### ALASKA

- Anchorage:  
Alaska Division of Mines and Geology.  
Alaska Methodist University.  
U.S. Geological Survey, Public Inquiries Office.
- Auke Bay:  
Bureau of Commercial Fisheries.
- Fairbanks:  
Alaska Division of Mines and Geology.  
U.S. Geological Survey, Branch of Alaskan Mineral Resources (field office).  
University of Alaska.
- Haines:  
Public.
- Homer:  
Public.
- Juneau:  
Alaska Division of Mines and Geology.  
Alaska Historical Library and Museum.  
Alaska State Library.  
Juneau Memorial Library.  
U.S. Geological Survey.
- Ketchikan:  
Public.
- Seldovia:  
Public.
- Seward:  
Public.
- Sitka:  
Sheldon Jackson Junior College.
- Valdez:  
Public.
- Wrangell:  
Public.

### ARIZONA

- Flagstaff:  
Northern Arizona University.  
U.S. Geological Survey.
- Phoenix:  
Department of Library and Archives.  
Public.  
U.S. Geological Survey.
- Prescott:  
Prescott College.
- Tempe:  
Arizona State University.
- Tucson:  
Arizona Bureau of Mines.  
U.S. Geological Survey.  
University of Arizona.

### ARKANSAS

- Fayetteville:  
University of Arkansas.
- Little Rock:  
Arkansas Geological Commission.
- Magnolia:  
Southern State College.
- Russellville:  
Arkansas Polytechnic College.
- State College:  
Arkansas State University.

### CALIFORNIA

- Anaheim:  
Public.
- Arcata:  
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- Bakersfield:  
Kern County Public.
- Berkeley:  
University of California.
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Public.

**California—Continued**

- Los Angeles:  
California Division of Mines and Geology.  
Los Angeles County Museum.  
Los Angeles Public.  
Los Angeles State College of Applied Arts and Sciences.  
Occidental College.  
U.S. Geological Survey, 7638 Federal Bldg.  
University of California at Los Angeles.  
University of Southern California.
- Lynwood:  
Public.
- Menlo Park:  
U.S. Geological Survey.
- Montebello:  
Rio Hondo Regional Library.
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- Northridge:  
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- Oakland:  
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- Pasadena:  
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- Redding:  
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- Redlands:  
University of Redlands.
- Riverside:  
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University of California.
- Sacramento:  
California Department of Water Resources.  
California Division of Mines and Geology.  
California State Library.  
City-County Public.  
Sacramento State College.
- San Bernardino:  
County Free.
- San Diego:  
San Diego Public.  
San Diego Society of Natural History Museum.  
San Diego State College.
- San Francisco:  
California Academy of Sciences.  
California Division of Mines and Geology.  
Mechanics Mercantile.  
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San Francisco State College.  
U.S. Geological Survey.
- Santa Barbara:  
Public.  
University of California.
- Santa Clara:  
University of Santa Clara.
- Santa Cruz:  
University of California.

**California—Continued**

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Branner Geological Library.  
Stanford University.
- Stockton:  
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University of the Pacific.
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- West Covina:  
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Whittier College.
- COLORADO**
- Alamosa:  
Adams State College.
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University of Colorado.
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Colorado College.
- Denver:  
Colorado Division of Water Resources.  
Colorado Geological Survey.  
Colorado State Library.  
Colorado Water Conservation Board.  
The Mining Record.  
Museum of Natural History.  
Public.  
Regis College.  
University of Denver.  
U.S. Geological Survey Offices:  
Denver Federal Center and Room 1012,  
Federal Building.
- Fort Collins:  
Colorado State University.
- Golden:  
Colorado School of Mines.
- Grand Junction:  
Mesa College.  
Public.
- Greeley:  
University of Northern Colorado.
- Gunnison:  
Western State College.
- Pueblo:  
McClelland Public.  
Southern Colorado State College.
- CONNECTICUT**
- Bridgeport:  
Public.
- Bristol:  
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- Danbury:  
Western Connecticut State College.
- Hartford:  
Connecticut State Library.  
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Trinity College.
- Middletown:  
Connecticut Geological and Natural History Survey.  
Wesleyan University.

**Connecticut—Continued**

- New Haven:  
 American Journal of Science.  
 Connecticut Academy of Arts and Sciences.  
 Peabody Museum.  
 Southern Connecticut State College.  
 Yale University.
- New London:  
 Connecticut College.
- Storrs:  
 University of Connecticut.

**DELAWARE**

- Georgetown:  
 Delaware Technical and Community College.
- Newark:  
 Delaware Geological Survey.  
 University of Delaware.
- Wilmington:  
 Wilmington Institute.

**DISTRICT OF COLUMBIA**

- American Mining Congress.  
 American University.  
 Department of Agriculture.  
 Department of Commerce.  
 Department of the Interior.  
 Federal Power Commission.  
 George Washington University.  
 Howard University.  
 Library of Congress.  
 Smithsonian Institution.  
 Soil Conservation Service.  
 U.S. Geological Survey.  
 U.S. National Museum.

**FLORIDA**

- Boca Raton:  
 Florida Atlantic University.
- Coral Gables:  
 University of Miami.
- De Land:  
 John B. Stetson University.
- Fort Lauderdale:  
 Public.
- Gainesville:  
 Florida State Museum.  
 University of Florida.
- Jacksonville:  
 Jacksonville University.  
 Public.
- Lakeland:  
 Public.
- Leesburg:  
 Lake Sumter Junior College.
- Miami:  
 Miami-Dade Junior College.  
 Public.
- Orlando:  
 Florida Technological University.
- Palatka:  
 St. Johns River Junior College.
- Pensacola:  
 University of West Florida.

**Florida—Continued**

- Tallahassee:  
 Florida Agricultural and Mechanical College.  
 Florida Division of Natural Resources.  
 Florida State Library.  
 Florida State University.
- Tampa:  
 Public.  
 University of South Florida.  
 University of Tampa.
- Winter Park:  
 Rollins College.

**GEORGIA**

- Americus:  
 Georgia Southwestern College.
- Athens:  
 University of Georgia.
- Atlanta:  
 Emory University.  
 Georgia Department of Mines, Mining, and Geology.  
 Georgia Institute of Technology.  
 Georgia State College.  
 Public.
- Carrollton:  
 West Georgia College.
- Collegeboro:  
 Georgia Southern College.
- Macon:  
 Mercer University.
- Milledgeville:  
 Georgia College.
- Statesboro:  
 Georgia Southern College.

**HAWAII**

- Honolulu:  
 Bishop Museum.  
 Chaminade College.  
 Hawaii Department of Land and Natural Resources.  
 Hawaii State Library.  
 U.S. Geological Survey, 1100 Ward Avenue.  
 University of Hawaii.

**IDAHO**

- Boise:  
 Boise State College.  
 Public.
- Caldwell:  
 College of Idaho.
- Moscow:  
 Idaho Bureau of Mines and Geology.  
 University of Idaho.
- Pocatello:  
 Idaho State University.
- Rexburg:  
 Ricks College.

**ILLINOIS**

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- Carbondale:  
 Southern Illinois University.

**Illinois—Continued**

- Carlville:  
     Blackburn College.  
 Champaign:  
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     Chicago Academy of Science.  
     Chicago City College.  
     Chicago State College.  
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     John Crerar Library.  
     Loyola University.  
     Museum of Science and Industry.  
     Public.  
     University of Chicago.  
     University of Illinois.  
     Western Society of Engineers.  
 De Kalb:  
     Northern Illinois University.  
 East St. Louis:  
     Southern Illinois University.  
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     Southern Illinois University.  
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     Principia College.  
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     Northwestern University.  
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     Public.  
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     Knox College.  
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     Thornton Junior College.  
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     Olivet Nazarene College.  
 Lebanon:  
     McKendree College.  
 Lisle:  
     St. Procopius College.  
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     Western Illinois University.  
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     Monmouth College.  
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     Illinois State University.  
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     Public.  
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     Rosary College.  
 Rock Island:  
     Augustana College.  
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     Public.  
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     Illinois State Library.  
     Illinois State Mining Board.  
 Urbana:  
     Illinois State Geological Survey.  
     University of Illinois.  
 Wheaton:  
     Wheaton College.

**INDIANA**

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     Anderson College.  
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     Indiana Geological Survey.  
     Indiana University.  
 Evansville:  
     Indiana State University.  
     Public.  
     University of Evansville.  
 Fort Wayne:  
     The Indiana-Purdue University.  
     Public.  
 Gary:  
     Indiana University.  
 Greencastle:  
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 Hammond:  
     Public.  
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     Hanover College.  
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     Butler University.  
     Indiana University.  
     Public.  
 Jeffersonville:  
     Indiana University.  
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     Indiana University.  
 Lafayette:  
     Purdue University.  
 Muncie:  
     Ball State University.  
     Public.  
 North Manchester:  
     Manchester College.  
 Notre Dame:  
     Notre Dame University.  
 Rensselaer:  
     St. Joseph's College.  
 Richmond:  
     Earlham College.  
 Terre Haute:  
     Indiana State University.  
 Valparaiso:  
     Valparaiso University.
- IOWA**
- Ames:  
     Iowa State University.  
 Cedar Falls:  
     University of Northern Iowa.  
 Council Bluffs:  
     Free Public.  
 Davenport:  
     Public Museum.  
 Des Moines:  
     Drake University.  
     Iowa State Traveling Library.  
     Public.



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Loras College.  
Public.
- Grinnell:  
Grinnell College.
- Indianola:  
Simpson College.
- Iowa City:  
Iowa Geological Survey.  
University of Iowa.
- Lamoni:  
Graceland College.
- Mount Vernon:  
Cornell College.
- KANSAS**
- Atchison:  
St. Benedict's College.
- 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 University.
- Pittsburg:  
Kansas State College.
- Salina:  
Kansas Wesleyan University.
- Topeka:  
Kansas State Historical Society.  
Kansas State Library.  
State Board of Agriculture.
- Wichita:  
University of Wichita.

**KENTUCKY**

- Ashland:  
Public.
- Barbourville:  
Union College.
- Berea:  
Berea College.
- Bowling Green:  
Western Kentucky State University.
- Lexington:  
Kentucky Geological Survey.  
U. S. Geological Survey.  
University of Kentucky.
- Louisville:  
Free Public.  
University of Louisville.
- Morehead:  
Morehead State University.
- Murray:  
Murray State University.
- Owensboro:  
Kentucky Wesleyan College.
- Richmond:  
Eastern Kentucky University.

**LOUISIANA**

- Baton Rouge:  
Louisiana Geological Survey.  
Louisiana State University.
- Hammond:  
Southeastern Louisiana College.
- Lafayette:  
University of Southwestern Louisiana.
- Lake Charles:  
McNeese State College.
- Monroe:  
Northeast Louisiana State College.
- Natchitoches:  
Northwestern Louisiana State College.
- New Orleans:  
Loyola University.  
Moss Technical Library.  
Public.  
Southern University of New Orleans.  
Tulane University.
- Ruston:  
Louisiana Polytechnic Institute.
- Shreveport:  
Centenary College.  
Louisiana State University.  
Shreve Memorial.
- Thibodaux:  
Francis T. Nicholls State College.

**MAINE**

- Augusta:  
Maine Geological Survey.  
Maine State Library.
- Bangor:  
Public.
- Brunswick:  
Bowdoin College.
- Lewiston:  
Bates College.
- Orono:  
University of Maine.
- Portland:  
Portland Society of Natural History.  
Public.  
University of Maine.
- Springvale:  
Nasson College.
- Waterville:  
Colby College.

**MARYLAND**

- Annapolis:  
Maryland State Library.  
U. S. Naval Academy.
- Baltimore:  
Enoch Pratt Free Library.  
Johns Hopkins University.  
Maryland Geological Survey.  
Morgan State College.
- College Park:  
University of Maryland.
- Frostburg:  
Frostburg State College.
- Salisbury:  
Salisbury State College.
- Westminster:  
Western Maryland College.

**MASSACHUSETTS**

- Amherst:  
Amherst College.  
University of Massachusetts.
- Bedford:  
AF Cambridge Research Laboratories.
- Boston:  
Boston University.  
Department of Public Works.  
Public.  
State Library of Massachusetts.
- Cambridge:  
Harvard University.  
Harvard University Museum.  
Massachusetts Institute of Technology.
- Lowell:  
Lowell Technological Institute.
- Medford:  
Tufts University.
- Milton:  
Curry College.
- Northampton:  
Smith College.
- North Dartmouth:  
Southeastern Massachusetts Technological Institute.
- South Hadley:  
Mount Holyoke College.
- Springfield:  
Public.
- Waltham:  
Brandeis University.
- Wellesley:  
Wellesley College.
- Williamstown:  
Williams College.
- Woods Hole:  
Marine Biological Laboratory.
- Worcester:  
American Antiquarian Society.  
Clark University.  
Public.

**MICHIGAN**

- Albion:  
Albion College.
- Allendale:  
Grand Valley State College.
- Andrews:  
GeoScience Research Institute.
- Ann Arbor:  
University of Michigan.
- Bloomfield Hills:  
Cranbrook Institute of Science.
- Detroit:  
Public.  
University of Detroit.  
Wayne State University.
- East Lansing:  
Michigan State University.
- Escanaba:  
Michigan State Library.
- Flint:  
Flint Junior College.  
Public.

**Michigan—Continued**

- Grand Rapids:  
Knollcrest Calvin Library.  
Public.
- Hickory Corners:  
W. K. Kellogg Biological Station.
- Houghton:  
Michigan Technological University.
- Ishpeming:  
Lake Superior Mining Institute.
- Kalamazoo:  
Western Michigan University.
- Lansing:  
Michigan Geological Survey Division.  
Michigan State Library.
- Mt. Pleasant:  
Central Michigan University.
- Muskegon:  
Hackley Public.
- Saginaw:  
Hoyt Public.
- Ypsilanti:  
Eastern Michigan University.

**MINNESOTA**

- Bemidji:  
Bemidji State College.
- Collegeville:  
St. Johns University.
- Duluth:  
Public.  
University of Minnesota.
- Mankato:  
Mankato State College.
- Minneapolis:  
E. J. Longyear Company.  
Minnesota Geological Survey.  
Public.  
University of Minnesota.
- Moorhead:  
Moorhead State College.
- Northfield:  
Carleton College.  
St. Olaf College.
- St. Cloud:  
St. Cloud State College.
- St. Paul:  
James Jerome Hill Reference Library.  
Macalester College.  
Minnesota Historical Society.  
Public.  
Science Museum.
- St. Peter:  
Gustavus Adolphus College.
- Winona:  
Winona State College.

**MISSISSIPPI**

- Columbus:  
Mississippi State College for Women.
- Hattiesburg:  
University of Southern Mississippi.
- Jackson:  
Millsaps College.  
Mississippi Geological Economic and Topographical Survey.  
Mississippi Library Commission.  
Mississippi State College.

**MISSISSIPPI—Continued**

- Ocean Springs:  
Gulf Coast Research Laboratory.
- State College:  
Mississippi State University.
- University:  
University of Mississippi.
- Vicksburg:  
Mississippi River Commission.

**MISSOURI**

- Cape Girardeau:  
Southeast Missouri State College.
- Columbia:  
University of Missouri.
- Fulton:  
Westminster College.
- Hannibal:  
Free Public.
- Jefferson City:  
Lincoln University.
- Joplin:  
Missouri Southern State College.
- Kansas City:  
Linda Hall Library.  
Public.  
Rockhurst College.  
University of Missouri at Kansas City.
- Rolla:  
Missouri Division of Geological Survey and  
Water Resources.  
School of Mines and Metallurgy.  
University of Missouri at Rolla.
- St. Joseph:  
Public.
- St. Louis:  
Academy of Science at St. Louis.  
Missouri Botanical Gardens.  
Public.  
St. Louis University.  
University of Missouri at St. Louis.  
Washington University.
- Springfield:  
Drury College.  
Southwest Missouri State College.
- Warrensburg:  
Central Missouri State College.

**MONTANA**

- Billings:  
Eastern Montana College.  
Parmly Billings Memorial.
- Bozeman:  
Montana State University.
- Butte:  
Montana Bureau of Mines and Geology.  
Montana College of Mineral Science and  
Technology.
- Helena:  
Historical Society of Montana.  
Public.
- Missoula:  
University of Montana.
- Red Lodge:  
Yellowstone-Bighorn Research Association.

**NEBRASKA**

- Fremont:  
Midland Lutheran College.
- Lincoln:  
Nebraska Conservation and Survey Division.  
Nebraska State Library.  
University of Nebraska.
- Omaha:  
Public.  
University of Omaha.
- Scottsbluff:  
Public.

**NEVADA**

- Carson City:  
Nevada State Library.
- Las Vegas:  
Nevada Southern University.
- Reno:  
Mackay School of Mines.  
Nevada Bureau of Mines.  
University of Nevada.

**NEW HAMPSHIRE**

- Concord:  
New Hampshire State Library.
- Durham:  
New Hampshire Department of Resources  
and Economic Development.  
University of New Hampshire.
- Hanover:  
Dartmouth College.
- Henniker:  
New England College.

**NEW JERSEY**

- Atlantic City:  
Free Public.
- Bayonne:  
Free Public.
- Bloomfield:  
Public.
- Bridgeton:  
Cumberland County Library.
- Camden:  
Free Public.
- Elizabeth:  
Free Public.
- Freehold:  
Monmouth County Library.
- Glassboro:  
Glassboro State College.
- Jersey City:  
Free Public.  
Jersey City State College.
- Newark:  
Public.  
John Cotton Dana Library.
- New Brunswick:  
Rutgers University.
- Princeton:  
Princeton University.
- South Orange:  
Seton Hall University.
- Teaneck:  
Fairleigh Dickinson University.

**NEW JERSEY—Continued**

- Trenton:  
 Free Public.  
 New Jersey Bureau of Geology and  
 Topography.
- Upper Montclair:  
 Montclair State College.
- West Long Beach:  
 Monmouth College.
- Woodbridge:  
 Free Public.

**NEW MEXICO**

- Albuquerque:  
 University of New Mexico.
- Hobbs:  
 New Mexico Junior College.
- Las Vegas:  
 New Mexico Highlands University.
- Portales:  
 Eastern New Mexico University.
- Ranchos de Taos:  
 Fort Burgwin Research Center.
- Santa Fe:  
 Museum of New Mexico.
- Socorro:  
 New Mexico Bureau of Mines and Mineral  
 Resources.  
 School of Mines.
- University Park:  
 New Mexico State University.

**NEW YORK**

- Albany:  
 New York State Library.  
 New York State Museum and Science Service.
- Alfred:  
 Alfred University.
- Binghamton:  
 State University of New York at Binghamton.
- Brockport:  
 State University of New York at Brockport.
- Bronx:  
 New York Botanical Gardens.  
 New York University.
- Brooklyn:  
 Brooklyn College.  
 Polytechnic Institute.  
 Public.
- Buffalo:  
 Buffalo Society of Natural Science.  
 Grosvenor.  
 Public.  
 State University of New York at Buffalo.
- Canton:  
 St. Lawrence University.
- Clinton:  
 Hamilton College.
- Corning:  
 Corning Community College.
- Elmira:  
 Elmira College.
- Farmingdale:  
 State University of New York at Farmingdale.
- Flushing:  
 Queens College.

**NEW YORK—Continued**

- Garden City, L. I.:  
 Adelphi University.
- Geneseo:  
 State University College.
- Geneva:  
 Hobart and William Smith College.
- Greenvale:  
 C. W. Post College.
- Hamilton:  
 Colgate University.
- Hempstead:  
 Hofstra University.
- Ithaca:  
 Cornell University.
- Jamaica:  
 Queens Borough Public.  
 St. John's University.
- Levittown:  
 Public.
- New Paltz:  
 State University College.
- New York City:  
 American Geographical Society.  
 American Museum of Natural History.  
 Barnard College.  
 The Chemists Club.  
 City University of New York.  
 Columbia University.  
 Cooper Union.  
 Engineering and Mining Journal.  
 Engineering Societies.  
 Fordham University.  
 Hunter College.  
 New York University.  
 Public (Astor Branch).  
 Public (Grand Central Station Branch).  
 Public (Lenox Branch).
- Oneonta:  
 State University College.
- Oswego:  
 State University College.
- Palisades:  
 Lamont Geological Observatory.
- Plattsburgh:  
 State University College.
- Potsdam:  
 Clarkson College of Technology.
- Poughkeepsie:  
 Vassar College.
- Rochester:  
 Academy of Science.  
 Public.  
 University of Rochester.
- Saratoga Springs:  
 Skidmore College.
- Schenectady:  
 Union College.
- Staten Island:  
 Staten Island Institute of Arts and Science.  
 Wagner College.
- Stony Brook:  
 State University of New York at Stony Brook

**NEW YORK—Continued**

- Syracuse:  
Syracuse University.
- Troy:  
Rensselaer Polytechnic Institute.
- Utica:  
Public.
- West Point:  
U.S. Military Academy.

**NORTH CAROLINA**

- Belmont:  
Belmont Abbey College.
- Buie's Creek:  
Campbell College.
- Chapel Hill:  
University of North Carolina.
- Cullowhee:  
Western Carolina University.
- Davidson:  
Davidson College.
- Durham:  
Duke University.
- Greensboro:  
North Carolina Agricultural and Technical  
State University.
- Greenville:  
East Carolina University.
- Raleigh:  
North Carolina Division of Mineral Resources.  
North Carolina State Library.  
North Carolina State University.

- Salisbury:  
Catawba College.
- Wake Forest:  
Wake Forest College.
- Wilmington:  
University of North Carolina at Wilmington.
- Winston-Salem:  
Public.

**NORTH DAKOTA**

- Bismarck:  
State Historical Society.
- Fargo:  
North Dakota State University.
- Grand Forks:  
North Dakota Geological Survey.  
University of North Dakota.

- Minot:  
Minot State College.

**OHIO**

- Akron:  
Public.  
University of Akron.
- Alliance:  
Mount Union College.
- Athens:  
Ohio University.
- Bowling Green:  
State University.
- Chillicothe:  
Ohio University at Chillicothe.
- Cincinnati:  
Public.  
University of Cincinnati.

**OHIO—Continued**

- Cleveland:  
Adelbert College, Western Reserve University.  
Case Western Reserve University.  
Cleveland State University.

- Columbus:  
Capital University.  
Ohio Department of Natural Resources.  
Ohio Division of Geological Survey.  
Ohio State Library.  
Ohio State University.  
Public.

- Dayton:  
Dayton Museum of Natural History.  
Miami-Ohio State University.  
Public.  
University of Dayton.

- Delaware:  
Ohio Wesleyan University.

- Elyria:  
Public.

- Granville:  
Denison University.

- Hiram:  
Hiram College.

- Kent:  
State University.

- Marietta:  
Marietta College.

- New Concord:  
Muskingum College.

- Oberlin:  
Oberlin College.

- Oxford:  
Miami University.

- Springfield:  
Wittenberg University.

- Toledo:  
Public.  
University of Toledo.

- Wooster:  
College of Wooster.

- Yellow Springs:  
Antioch College.

- Youngstown:  
Public.

**OKLAHOMA**

- Ada:  
East Central State College.

- Durant:  
Southeastern State College.

- Enid:  
Public.

- Lawton:  
Museum of the Great Plains.

- Norman:  
Oklahoma Geological Survey.  
University of Oklahoma.

- Oklahoma City:  
Oklahoma City University.  
Oklahoma County Libraries.

- Stillwater:  
Oklahoma State University.

**OKLAHOMA—Continued**

- Tahlequah:  
Northeastern State College.
- Tulsa:  
Tulsa City-County Library.  
University of Tulsa.
- OREGON**
- Ashland:  
Southern Oregon College.
- Corvallis:  
Oregon State University.  
Pacific North Water Laboratory.
- Eugene:  
University of Oregon.
- Forest Grove:  
Pacific University.
- McMinnville:  
Linfield College.
- Monmouth:  
Oregon College of Education.
- Portland:  
Library Association of Portland.  
Portland State University.  
Reed College.  
State Department of Geology and Mineral  
Industries.
- Salem:  
Oregon State Library.

**PENNSYLVANIA**

- Allentown:  
Muhlenberg College.
- Bethlehem:  
Lehigh University.
- Bradford:  
Public.
- Bryn Mawr:  
Bryn Mawr College.
- Carlisle:  
Dickinson College.
- Cheyney:  
Cheyney State College.
- Easton:  
Lafayette College.
- East Stroudsburg:  
East Stroudsburg State College.
- Edinboro:  
Edinboro State College.
- Erie:  
Public.
- Harrisburg:  
Pennsylvania State Library.  
Pennsylvania Topographic and Geologic  
Survey.
- Huntingdon:  
Juniata College.
- Indiana:  
Indiana University of Pennsylvania.
- Johnstown:  
Cambria Public.
- Kutztown:  
Kutztown State College.
- Lancaster:  
Franklin and Marshall College.
- Lock Haven:  
Lock Haven State College.

**PENNSYLVANIA—Continued**

- Mansfield:  
Mansfield State College.
- Meadville:  
Allegheny College.
- Media:  
Delaware County.  
Institute of Science.
- Millersville:  
Millersville State College.
- Philadelphia:  
Academy of Natural Sciences.  
American Philosophical Society.  
Drexel Institute.  
Franklin Institute.  
Public.  
Temple University.  
University of Pennsylvania.
- Pittsburgh:  
Carnegie Museum.  
Public.  
U. S. Bureau of Mines.  
University of Pittsburgh.
- Selinsgrove:  
Susquehanna University.
- Slippery Rock:  
Slippery Rock State College.
- South Bethlehem:  
Lehigh University.
- Swarthmore:  
Swarthmore College.
- University Park:  
Pennsylvania State University.
- Villanova:  
Villanova University.
- Waynesburg:  
Waynesburg College.
- West Chester:  
West Chester State College.
- York:  
York Junior College.

**PUERTO RICO**

- Mayaguez:  
University of Puerto Rico, Mayaguez Campus
- Rio Piedras:  
University of Puerto Rico.
- San Juan:  
Mineralogy and Geology Section, Industrial  
Laboratory, E. D. A., Roosevelt Station.

**RHODE ISLAND**

- Kingston:  
University of Rhode Island.
- Providence:  
Brown University.  
Rhode Island State Library.
- Warwick:  
Public.
- Westerly:  
Public.

**SOUTH CAROLINA**

- Charleston:  
Baptist College.  
Citadel Memorial.
- Clemson:  
Clemson University.

**SOUTH CAROLINA—Continued**

- Columbia:**  
South Carolina Division of Geology.  
University of South Carolina.
- Greenville:**  
Furman University.  
Public.
- Greenwood:**  
Lander College.
- Rockhill:**  
Winthrop College.
- Spartanburg:**  
Public.

**SOUTH DAKOTA**

- Brookings:**  
South Dakota State University.
- Pierre:**  
South Dakota Free Library Commission.
- Rapid City:**  
South Dakota School of Mines and  
Technology.
- Sioux Falls:**  
Augustana College.  
Public.
- Vermillion:**  
South Dakota State Geological Survey.  
University of South Dakota.
- Yankton:**  
Yankton College.

**TENNESSEE**

- Chattanooga:**  
Public.  
University of Chattanooga.
- Clarksville:**  
Austin Peay State College.
- Jackson:**  
Lambuth College.
- Jefferson City:**  
Carson-Newman College.
- Johnson City:**  
East Tennessee State University.
- Knoxville:**  
University of Tennessee.
- Martin:**  
University of Tennessee at Martin.
- Memphis:**  
Public.  
Memphis State University.
- Nashville:**  
Joint University Libraries.  
Tennessee Division of Geology.  
Tennessee State Library.  
Vanderbilt University.
- Sewanee:**  
University of the South.

**TEXAS**

- Abilene:**  
Hardin Simmons University.
- Alpine:**  
Sul Ross State College.
- Arlington:**  
University of Texas at Arlington.

**TEXAS—Continued**

- Austin:**  
Texas Bureau of Economic Geology.  
Texas State Library.  
Texas Water Development Board.  
University of Texas.
- Beaumont:**  
Lamar State College of Technology.
- College Station:**  
Texas Agricultural and Mechanical University.
- Commerce:**  
East Texas State University.
- Dallas:**  
Public.  
Southern Methodist University.  
U. S. Geological Survey.
- Denton:**  
North Texas State University.
- Edinburg:**  
Pan American College.
- El Paso:**  
Public.  
University of Texas at El Paso.
- Fort Worth:**  
Public.  
Texas Christian University.
- Galveston:**  
Rosenberg Library.
- Houston:**  
Public.  
University of Houston.  
William Marsh Rice University.
- Huntsville:**  
Sam Houston State University.
- Kingsville:**  
Texas Arts and Industries University.
- Lubbock:**  
Texas Technological College.
- Midland:**  
Public.
- Odessa:**  
Odessa College.
- San Angelo:**  
San Angelo State University.
- San Antonio:**  
Public.  
Texas Natural Resources Foundation.  
Trinity University.
- San Marcos:**  
Southwest Texas State College.
- Sherman:**  
Austin College.
- Waco:**  
Baylor University.

**UTAH**

- Cedar City:**  
Southern Utah State College.
- Ephraim:**  
Snow College.
- Logan:**  
Utah State University.

## UTAH—Continued

- Ogden:  
Weber State College.
- Provo:  
Brigham Young University.
- Salt Lake City:  
Public.  
U.S. Geological Survey, 8102 Federal Building.  
University of Utah.  
Utah Geological and Mineralogical Survey.  
Utah State Library.
- Vernal:  
Utah Field House of Natural History.

## VERMONT

- Burlington:  
University of Vermont.  
Vermont Geological Survey.
- Lyndonville:  
Lyndon State College.
- Middlebury:  
Middlebury College.
- Montpelier:  
Vermont State Library.
- Northfield:  
Norwich University.
- Putney:  
Windham College.

## VIRGINIA

- Baileys Crossroads:  
George Mason College of the University of Virginia.
- Blacksburg:  
Virginia Polytechnic Institute.
- Charlottesville:  
University of Virginia.  
Virginia Division of Mineral Resources.
- Emory:  
Emory and Henry College.
- Fort Belvoir:  
U.S. Army Engineer School.
- Hampden Sidney:  
Hampden Sidney College.
- Harrisonburg:  
Madison College.
- Hollins College:  
Fishburn Library.
- Lexington:  
Virginia Military Institute.  
Washington and Lee University.
- Norfolk:  
Old Dominion College.
- Petersburg:  
Virginia State College.
- Richmond:  
University of Richmond.  
Virginia State Library.
- Salem:  
Roanoke College.
- University:  
University of Virginia.
- Williamsburg:  
William and Mary College.

## WASHINGTON

- Bellingham:  
Western Washington State College.
- Cheney:  
Eastern Washington State College.
- Ellensburg:  
Central Washington State College.
- Olympia:  
Washington Division of Mines and Geology.  
Washington State Library.
- Port Angeles:  
Public.
- Pullman:  
Washington State University.
- Seattle:  
Public.  
University of Washington.
- Spokane:  
Public.  
U.S. Geological Survey.
- Tacoma:  
Public.  
Tacoma Community College.  
U.S. Geological Survey.  
University of Puget Sound.
- Walla Walla:  
Whitman College.

## WEST VIRGINIA

- Athens:  
Concord College.
- Charleston:  
West Virginia Department of Archives and History.
- Glenville:  
Glenville State College.
- Huntington:  
Marshall University.
- Morgantown:  
West Virginia Geological and Economic Survey.  
West Virginia University.
- Salem:  
Salem College.

## WISCONSIN

- Appleton:  
Lawrence University.
- Beloit:  
Beloit College.
- Eau Claire:  
Wisconsin State University.
- Fond du Lac:  
Public.
- Green Bay:  
University of Wisconsin at Green Bay.
- Madison:  
State Historical Society.  
University of Wisconsin.  
Wisconsin Geological and Natural History Survey.
- Milwaukee:  
Public.  
Public Museum.  
University of Wisconsin-Milwaukee Library.



**WISCONSIN—Continued**

**Oshkosh:**  
Wisconsin State University.  
**Platteville:**  
Wisconsin State University.  
**Racine:**  
Public.  
**River Falls:**  
Wisconsin State University.  
**Stevens Point:**  
Wisconsin State University.  
**Superior:**  
Public.  
Wisconsin State University.

**WYOMING**

**Casper:**  
Natrona County Public.  
**Cheyenne:**  
Wyoming State Library.  
**Laramie:**  
Geological Survey of Wyoming.  
U.S. Bureau of Mines Petroleum Research  
Center.  
University of Wyoming.  
**Powell:**  
Northwest Community College.





