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GEOLOGICAL SURVEY

Geologist

THE
ESTABLISHMENT, PURPOSE, SCOPE, AND
METHODS

OF THE STATE GEOLOGICAL SURVEY

BY GEO. H. ASHLEY

EXTRACT (A) FROM BULLETIN NO. 1, GEOLOGICAL WORK
IN TENNESSEE

NASHVILLE
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STATE OF TENNESSEE—STATE GEOLOGICAL SURVEY

GEORGE H. ASHLEY, State Geologist

BIBLIOGRAPHY
OF
Tennessee Geology, Soils, Drain-
age, Forestry, Etc.

WITH SUBJECT INDEX

BY
ELIZABETH COCKRILL

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CONTENTS

Introduction	3
Bibliography	5
Index	81
Classified key to the index.....	113
List of Survey publications	119

TO BE
REPRODUCED

INTRODUCTION.

The following bibliography was prepared by Miss Cockrill, first as a card catalogue and cross reference index for the use of the Survey, and then for publication for general use.

As is readily seen, a large amount of geologic work has already been done in Tennessee. While many of these reports and papers are out of print or can be obtained only with difficulty, on the other hand, many of them can be obtained for the asking or at a relatively small cost.

It is the purpose of the present State Survey to prepare a series of bulletins summarizing all that is now known of the different mineral resources, and the different counties, and in many cases, these summaries will cover all of the facts presented in the earlier reports, and to that extent will, for practical purposes, entirely superseded those reports; but no attempt to duplicate the detailed earlier reports will be made until such time as the Survey's own detailed work shall have covered that area, resource or problem.

For example, the Columbia folio by the U. S. Geological Survey is a beautiful piece of work and mapping, describing the phosphate rocks occurring in that region, the rocks in which the phosphates occur, their probable origin, their general distribution, their general chemical character, but no details are given. In the progress of its detailed study of the phosphate rocks, the State Survey will ultimately hope to publish, not only detailed maps of the phosphate deposits, but detailed descriptions of all the deposits, giving, as far as possible, detailed sections, description of extent, analyses, etc. But meanwhile many people may want to refer to the Columbia folio if they know of its existence. So, too, the Columbia folio describes some interesting embayment deposits. Ultimately the State Survey hopes to trace those deposits to their natural limits, but it may be some years before that can be done, and in the meanwhile many people would be interested in the facts brought out even in as limited an area as that covered by the Columbia folio.

Therefore, it has been felt that it would be a distinct service to publish a list of the reports and papers that have been written on the geology, soils, drainage and forestry of Tennessee. The bibliography makes no pretense to being complete, especially in the cross indexing (as many of the earlier papers, especially, are not contained in the State Geologist's private library, which, for the time being, must serve the needs of the new Survey).

But it was felt it would be of more value to bring the list out without delay, rather than to wait the several years that are usually necessary to search out the few additional titles to make it complete.

In preparing the bibliography, Miss Cockrill has made use of the various bibliographies on geology issued by the U. S. Geological Survey, and has supplemented that by lists kindly furnished by the several bureaus of the Agricultural Department, Coast and Geodetic Survey, etc., and by such other titles as could be learned of from the people in the State. In this work she has received a large amount of assistance from Professor Glenn,

who has gone through all of the geological library of Vanderbilt University, including Professor Safford's books, so that including a large number of titles from the reports of the Chief of Engineers, State Board of Health, and similar publications, he added nearly a thousand titles to those previously obtained. Mr. Nelson has aided in preparing the index and in the proof reading.

The government reports are usually to be obtained by request from the heads of the several bureaus, thus letters for such reports should be addressed to: The Director, U. S. Geological Survey, Washington, D. C.; The Superintendent of the Coast and Geodetic Survey, Washington, D. C.; The Director, Office of Public Roads, Agricultural Department, Washington, D. C.; Chief of Bureau of Soils, Department of Agriculture, Washington, D. C.; Chief Forester, Forest Service, Washington, D. C., etc. A few of the publications are sale publications, such as the topographic atlas sheets and the folios of the U. S. Geological Survey. In these cases, the charges made are simply to cover the cost of printing and binding. The topographic atlas sheets can be obtained at a cost of five cents each, and the folios for twenty-five cents each (stamps not accepted). In some cases the supply of these publications for distribution for the several bureaus will be found to have been exhausted. Application should then be made to the Superintendent of Documents, Washington, D. C., from whom they may be purchased at the cost of publication. If the supply of that official is exhausted, they can only be obtained from second hand book dealers, or from people to whom they were previously sent. Many of these publications can be consulted at the libraries, as most of the libraries receive full sets of the government publications.

Nashville.

GEORGE H. ASHLEY.

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The first is a *Phacops* approaching *P. Hudsoni* Hall, the second a species of the genus *Dalmanites*.

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INDEX

A

Agricultural Geology.

The agricultural geology of the State of Tennessee, Safford, 29.

Alum.

Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Analyses.

Coals, Battle (H. B.); Clark (F. W.), 1 and 2; Holmes.
Fuel value of Tennessee coal, Ferris, (Chas. E.).
Water, Dole.

Anderson County.

Briceville folio, Keith, 7.
Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Maynardsville folio, Keith, 16.
Report of Coal Creek Mining and Manufacturing Company, Bradley, 5.
Terrestrial Magnetism, Bauer, 1.
The southern Appalachian coal field, Hayes, 23.

Appalachians.

A trip to Roane Mountain, Chickering, 1.
Age of the southern Appalachians, Elliott.
Appalachian River versus a Tertiary trans-Appalachian River in eastern Tennessee, White (C. H.).
Coal industry of the southeastern States of North America, Head (J.).
Copper deposits, etc., Weed, 3 and 4.
Decay of rocks geologically considered, Hunt, 4.
Description des monts Appalaches, Woodbridge.
Folded faults of the southern Appalachians, Keith, 12.
Forests and forest conditions in the southern Appalachians, Ayre and Ashe, 2.
Geology of Tennessee, Safford, 22.
Geomorphology of the southern Appalachians, Hayes and Campbell.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Lower Carboniferous of the Appalachian basin, Stevenson, 1.
Measurements of the mountains of western North Carolina, Guyot, 2.

Appalachians—Continued.

Message from the President of the United States, Roosevelt.
Mountains of North Carolina and Tennessee, Buckley.
Mountain regions of North Carolina and Tennessee, Anon, 11.
Notes on the Cambrian rocks of Virginia and the southern Appalachians, Walcott, 6.
Notes on Roane Mountain, North Carolina, Chickering, 2.
On the Appalachian health resorts of Tennessee, Lindsley, 1.
On the Appalachian mountain system, Guyot, 1.
On the geognosy of the Appalachian system, Hunt, 5.
On the physical structure of the Appalachian chain, etc., Rogers and Rogers.
Overthrust faults of the southern Appalachians, Hayes, 1.
Portland cement resources of Tennessee, Ulrich, 1.
Relation of the southern Appalachian mountains to inland water navigation, Leighton and Horton.
Relation of the southern Appalachian mountains to the development of water power, Leighton, Hall and Bolster.
Report on the climatic influences of the Tennessee mountain region, Wright, 1.
Roane Mountain, western North Carolina, Kenworthy.
Second report on the mountain district of East Tennessee, Wright, 2.
Silurian age of the southern Appalachians, Bradley, 4.
Some stages of Appalachian erosion, Keith, 1.
The southern Appalachians, Hayes, 11.
The southern Appalachian coal field, Hayes, 23.
The southern Appalachian forests, Ayres and Ashe, 2.
Waning hardwood supply and the Appalachian forests, Hall (W. L.).
Artesian wells.
Artesian water supplies, Omberg.
Geology of Tennessee, 22.
Underground water resources, Glenn, 6.
Asbestos.
Asheville folio, Keith, 11.

B**Barite.**

- Asheville folio, Keith, 11.
 Barytes industry in the South, Judd, 1.
 Barytes in Tennessee, Fay.
 Barytes Mines of the Commercial Mining and Milling Company, Tennessee, Weller.
 Flourite and barite in Tennessee, Watson, 2.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Southern Railway territory, Southern Railway, 1.
 Statistical reports, Shiflett, 1-9.
 Tennessee barytes, Herzig.

Bauxite.

- Bauxite and aluminum, Phalen.
 Mineral resources along the line of the East Tennessee, Virginia and Georgia division of the Southern Railway, Brewer (Wm. M.), 2.

Bedford County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas development in Tennessee, Munn.

Benton County.

- Camden chert of Tennessee, Safford and Schuchert.
 Clays of West Tennessee, Nelson.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.
 Silurian and Devonian limestones of western Tennessee, Foerste, 4.
 Terrestrial magnetism, Faris, 3.
 Underground waters, Glenn, 6.

Big Hatchie River.

- Examination and improvement of Big Hatchie River, Benyaard, 6.
 Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.
 Drainage problems in Tennessee, Ashley, 6.
 Improvement of Big Hatchie River, Bergland, 2 and 4; Benyaard, 1 and 2; Willard, 1, 4, 6, 8 and 9; Miller (A. M.), 2 and 4.
 Preliminary examination of Hatchie (Big Hatchie) River, Sears, 2.
 Underground waters, Glenn, 6.

Big Pigeon River.

- Profiles of rivers (in Tennessee), Gannett, 6.

Bledsoe County.

- Chattanooga folio, Hayes, 9.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Pikeville folio, Hayes, 15.
 Soil survey of Pikeville area, Tenn., Wilder and Geib.
 Terrestrial magnetism, Bauer, 1.

Blount County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Knoxville folio, Keith, 5.
 Loudon folio, Keith, 6.
 Tennessee marbles, Keith, 15.
 Terrestrial magnetism, Bauer, 1.

Boulder.

- An erratic boulder from the coal measures of Tennessee, McCallie, 2.

Bradley County.

- Chattanooga folio, Hayes, 9.
 Cleveland folio, Hayes, 14.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Terrestrial magnetism, Bauer, 1.

C**Cacoxene.**

- Kraurite and Cacoxene in Tennessee, Troost, 15.

Campbell County.

- A report of the work done in the division of chemistry and physics, mainly during the fiscal year, 1888-89, Clarke, (F. W.), 1.
 Briceville folio, Keith, 7.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Jellico coal field, Evans.
 Maynardville folio, Keith, 16.
 The southern Appalachian coal field, Hayes, 23.

Caney Fork River.

- Examination of Caney Fork and Obey's Rivers, King, 71.
 Improvement of Caney Fork River, King, 5, 19, 24, 41, 42 and 67; Harts, 11, 18 and 26; Biddle, 12, 19 and 23; Barlow, 7, 10, 18, 26, 43, 44 and 48; Robert (H. M.), 11.
 Preliminary examination with a view to the extension of the survey of Caney Fork River to Frank's Ferry, King, 1.

Cannon County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 McMinnville folio, Keith, 16.
 Oil and gas developments in Tennessee, Munn.

Carroll County.

- Clays, Crider; Nelson; Eckel, 3.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Terrestrial magnetism, Bauer, 2; Faris, 3.
 Underground waters, Glenn, 6.

Carter County.

- A trip to Roane Mountain, Chickering, 1.
 Cranberry folio, Keith, 13.
 Fluorite and barite in Tennessee, Watson, 2.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Iron ore deposits of Cranberry district, Keith, 14.
 Notes on Roane Mountain, Chickering, 2.
 Report on the Tennessee River, Walden's Ridge and Carter County ore fields, Roberts, (J. D.).
 Report of the Tennessee River, Walden's Ridge iron ores, Guild, 1.
 Roane Mountain, Kenworthy.
 Roane Mountain folio, Keith, 8.
 Terrestrial magnetism, Bauer, 1; Faris, 3.

Caves.

- Caves and cave life, Kingsley.
 Wonder Cave of Tennessee, Payne.

Cement.

- An investigation of some Tennessee cement materials, Lund.
 Cement resources of the Cumberland Gap district, Tennessee-Virginia, Eckel, 4.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Knoxville folio, Keith, 5.
 Loudon folio, Keith, 6.
 Maynardville folio, Keith, 16.
 Morristown folio, Keith, 17.
 Portland cement resources of Tennessee, Ulrich, 1.
 Statistical reports, Shiflett, 5 and 9.

Central Basin.

- The Central Basin of Tennessee, Kennedy.

Cheatham County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.
 Terrestrial magnetism, Faris, 3.

Chester County.

- Terrestrial magnetism, Faris, 3.
 Underground waters, Glenn, 6.

Chromite.

- Ashville folio, Keith, 11.

Claiborne County.

- Cement resources of the Cumberland Gap district, Tennessee-Virginia, Eckel, 4.
 Cumberland coal field and its creators, Ashley, 1.
 Cumberland Gap coal field of Kentucky and Tennessee, Ashley, 2.
 Geology and mineral resources of part of the Cumberland Gap coal field, Kentucky, Ashley and Glenn.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Lead and zinc deposits of the Virginia-Tennessee region, Watson, 1.
 Maynardville folio, Keith, 16.
 Mineral resources of the upper Cumberland Valley of southeastern Kentucky and southwestern Virginia, McCreath and D'Inwilliers.
 Mining in the Cumberland Gap coal field, Pultz.
 Report of work done in the division of chemistry and physics mainly during the fiscal year, 1888-89, Clarke (F. W.), 1.
 Southern Appalachian coal field, Hayes, 23.
 Tennessee marbles, Keith, 15.
 Terrestrial magnetism, Bauer, 1.
 Zinc belt of Claiborne and Union Counties, Tennessee, Clarke (W. C.), 1.

Clay County.

- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.
 Standingstone folio, Campbell, 1.

Clay.

- Asheville folio, Keith, 7.
 Clay deposits of Tennessee, Brown (L. P.), 4.
 Clay of the United States, east of Mississippi River, Ries.

Clay—Continued.

- Clay of western Kentucky and Tennessee, Crider.
 Clay of West Tennessee, Nelson.
 Cleveland folio, Hayes, 14.
 Columbia folio, Hayes and Ulrich.
 Cranberry folio, Keith, 13.
 Cumberland Gap coal field, Ashley, 1, 2 and 3.
 Geology of Tennessee, Safford, 22.
 Greeneville folio, Keith, 3.
 Handbook of Tennessee, Paine.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Knoxville folio, Keith, 5.
 Loudon folio, Keith, 6.
 Maynardville folio, Keith, 16.
 McMinnville folio, Hayes, 16.
 Morristown folio, Keith, 17.
 Nashville Division, Southern Railway, 4.
 Pikeville folio, Hayes, 15.
 Report on the blue clay of the Mississippi River, Little.
 Statistical reports, Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.
 Standingstone folio, Campbell, 1.
 Stevenson folio, Hayes, 13.
 Stoneware and brick clays of western Kentucky and northwestern Mississippi, Eckel, 3.
 Wartburg folio, Keith, 4.

Climate.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Clinch River.

- Examination of Powell's, Clinch and Emory rivers, in Virginia and Tennessee, McFarland (Walter), 3.
 Final report on survey of Clinch River, Knight, 7.
 Improvement of Clinch River, King, 7, 16, 31, 38, 49 and 63; Barden, 3; Robert (Henry M), 6; Knight, 3 and 13; Kingman, 5, 20, 26, 31 and 35; Biddle, 17 and 26; Bingham, 1; Barlow, 4, 14, 21, 30, 39 and 50; Newcomer, 1, 9 and 17.
 Improvement of Clinch, Hiwassee and Holston rivers, Harts, 5, 6, 14 and 22.
 Preliminary report on survey of Clinch River, Kingman, 13.
 Profiles of rivers (in Tennessee), Gannett, 6.

Coal.

- Analyses comparing the bituminous coals of North Carolina and Tennessee, Battle (H. B.).

Coal—Continued.

- An erratic boulder from the coal measures of Tennessee, McCallie, 2.
 Briceville folio, Keith, 7.
 Chattanooga folio, Hayes, 9.
 Coal, Ashburner.
 Coal report of Henry E. Colton, Geologist, etc., Colton, 2.
 Coal and iron, Shook.
 Coal fields of Tennessee, Gordon, 1.
 Coal industry of the Southwestern states of North America, Head.
 Coal measures of plateau region, McCalley.
 Coal regions of America, their topography, geology and development, Macfarlane (J.).
 Comparison between the Ohio and West Virginia sides of the Allegheny coal fields, Andrews.
 Comparison of some southern coals and iron ores, McCreath and D'In-villiers, 2.
 Contributions to the coal flora of Tracy City, Brown (C. S.).
 Cumberland Gap coal fields, etc., Ashley, 1, 2 and 3.
 Cumberland Plateau coal field, Duffield.
 Describing field work, etc., Holmes, et al.
 Eighth annual report, Hargis, 1.
 Fentress County, Tennessee, coal and timber, Clarke (Jas. N.).
 Fourth annual report, Lloyd, 2.
 Fuel value of some Tennessee and Kentucky coals, Ferris (Chas. E.).
 Geology of Tennessee, Safford, 22.
 Handbook of Tennessee, Paine.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Investigations respecting the extent of the coal formations, Troost, 20.
 Iron and coal of Tennessee, Killebrew, 18.
 Jellico coal field, Evans.
 Joint-conference coal miners and operators, Anon., 10.
 Kingston folio, Hayes, 8.
 Little Sequatchie coal field, Killebrew, 1.
 Loudon folio, Keith, 6.
 Maynardville folio, Keith, 16.
 McMinnville folio, Hayes, 16.
 Mineral resources of the Brushy Mountain coal field, Bryant.
 Mineral resources of the upper Cumberland Valley of southeastern Kentucky and southwestern Virginia, McCreath and D'In-villiers, 1.
 Mining in the Cumberland Gap coal field, Pultz.

Coal—Continued.

- Notes on American cannel coal, Macfarlane (G.).
 Pikeville folio, Hayes, 15.
 Report of work done in the division of chemistry and physics during the fiscal year, 1887-88, Clarke (F. W.), 2; 1888-89, Clarke (F. W.), 1.
 Report of the State Geologist, Safford, 31.
 Report of Coal Creek Mining and Manufacturing Company, Bradley, 5.
 Report on the Cumberland Plateau coal lands, Safford, 50.
 Report on the Tennessee River and Walden's Ridge iron ores, Guild, 1; Koenig, 2.
 Report upon the mineral and agricultural resources, Safford and Owen.
 Ringgold folio, Hayes, 7.
 Sewanee folio, Hayes, 10.
 Some notes on mining operations in the Sewanee coal seam, Ormsbee.
 Southern Appalachian coal field, Hayes, 23.
 Standingstone folio, Campbell, 1.
 Statistical reports, Shifflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.
 Statistics of coal, Taylor.
 Stevenson folio, Hayes, 13.
 Tennessee coal measures, Safford, 15.
 The Cumberland coal fields, Tennessee, Lesley, 5.
 The Dayton coal mine explosion, Clute, 1.
 The town of Cardiff—and lands and mines of the Cardiff Coal and Iron Company, Smalley.
 Third annual report, Lloyd, 1.
 Upper measure coal field of Tennessee, Colton, 1.
 Wartburg folio, Keith, 4.

Cocke County.

- Analysis of meteoric iron from Cocke County, Shepard (C. U.), 1.
 Asheville folio, Keith, 11.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Morristown folio, Keith, 17.
 Report of a geological examination made on certain lands, Owen (Richard).
 Soil survey of the Greeneville area, Tenn.-N. C., Mooney and Ayrs, 1.
 Terrestrial magnetism, Bauer, 1.

Coffee County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Coffee County—Continued.

- McMinnville folio, Hayes, 16.
 Oil and gas developments in Tennessee, Munn.
 Sewanee folio, Hayes, 10.
 Soil survey of Coffee County, McLendon and Zappone.

Copper.

- A brief note of some facts connected with the Ducktown, Tennessee, copper mines, Tuomy.
 Copper deposits of the Appalachian states, Weed, 4.
 Copper districts of Tennessee, Georgia, etc., Currey and Proctor.
 Copper mines in the United States, in 1905, Weed, 2.
 Copper mines of the world, Weed, 1.
 Copper smelting in Tennessee, Channing.
 Cranberry folio, Keith, 13.
 Deposits of copper-ores at Ducktown, Tennessee, Kemp, 3.
 Der Ducktown-Kufergrubendistrikt in den Vereinigten Staaten von Nordamerika, Wendeborn.
 Ducktown copper mining district, McCally, 1.
 Ducktown ore deposits and the treatment of the Ducktown copper ores, Henrich.
 Ducktown, Tenn., copper mining district, Brewer (Wm. M.), 1.
 East Tennessee copper mines, Gilbert.
 Eighth annual report, Hargis, 1.
 Gangstudent, iii, Kleinschmidt.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Mineral tract of the East Tennessee and Cherokee Copper Mining Company, Whitney, 3.
 Mining and smelting in the Ducktown district, Higgins, 2.
 Mines and works of the Tennessee Copper Company, Gottsberger.
 Notes and recollections concerning the mineral resources of northern Georgia and western North Carolina, Blake, 1.
 On the copper lodes of Ducktown in East Tennessee, Ansted.
 Copper deposits of the Blue Ridge, Hunt, 1.
 Ore Knob copper mine and some related deposits, Hunt, 2.
 Remarks on the changes which take place in the structure and composition of mineral veins, Whitney, 1 and 2.
 Report on the Ducktown region, Trippel and Credner.

Copper—Continued.

Report on the Ducktown copper region and the mines of the Union Consolidated Mining Company, Shepard (C. U.), 3 and 2.

Report on the Ocoee and Hiwassee mineral district, Killebrew, 2.

Southern Railway territory, Southern Railway, 1.

Statistical reports, Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.

Tennessee copper mines, Tenney, 2.

The copper mines of Tennessee, Anon., 8.

The utilization of the iron and copper sulphides of Virginia, Boyd (C. R.), 1.

Types of copper deposits in the southern United States, Weed, 5.

Copperas.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Corundum.

Asheville folio, Keith, 11.

Crockett County.

Clays of West Tennessee, Nelson.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Terrestrial magnetism, Faris, 3.

Underground waters, Glenn, 6.

Cumberland County.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Kingston folio, Hayes, 8.

Oil and gas developments in Tennessee, Munn.

Pikeville folio, Hayes, 15.

Soil survey of the Pikeville area, Tenn., Wilder and Gelb.

Standingstone folio, Campbell, 1.

Terrestrial magnetism, Faris, 1.

The town of Cardiff—and lands and mines of the Cardiff Coal and Iron Company, Smalley.

Wartburg folio, Keith, 4.

Cumberland Plateau.

Facts about the Cumberland table land of Tennessee, Killebrew, 14.

Cumberland River.

Cumberland River, King, 82.

Examination of the South Fork of Cumberland River, King, 58.

Improvement of Cumberland River, Kingman, 25; Adams, 3, 6, 8 and 11; Barden, 1; King, 10, 13, 28, 35,

Cumberland River—Continued.

46, 60, 69, 74 and 77; Barlow, 6, 12,

13, 19, 20, 27, 28, 41, 42, 46 and 53;

McFarland (Walter), 5, 9 and 10;

Biddle, 2, 8, 11, 18 and 24; Harts,

12, 20 and 28; Newcomer, 6 and 13;

Robert (Henry M.), 10 and 12;

Sears, 3; Weitzel, 8.

Operating and care of locks and dams on Cumberland River, Newcomer, 5; Harts, 10, 19 and 27.

Preliminary examination of Lower Cumberland River, Barlow, 11.

Profiles of rivers (in Tennessee), Gannett, 6.

Report in reference to preliminary examination, King, 22.

Survey and improvements of Cumberland River, Weitzel, 6.

Survey of the Upper Cumberland River, Weitzel, 7.

Survey with a view to placing locks and dams on the Cumberland River, King, 23.

D**Davidson County.**

An account of the geology of Harpeth Ridge, Loomis.

An inquiry into the present quality of the public water supply of Nashville, Brown (L. P.), 5.

Columbia folio, Hayes and Ulrich.

Geology of Nashville and immediate vicinity, Jones.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Letters from the East and from the West, Hall (Frederick).

Oil and gas developments in Tennessee, Munn.

Report on chemical analysis of Davidson County water, Day (Wm. C.), 2.

Soil survey of Davidson County, Tenn., Smith and Bennett.

Source of contamination of Nashville drinking water, Day (Wm. C.), 1.

Terrestrial magnetism, Faris, 1; Bauer, 2.

The more common minerals about Nashville, Glenn, 3.

The source of Nashville's water supply, Walker.

Topography and geology of Nashville, Safford, 10.

Topographical map of Nashville and vicinity, Foster (W. W.).

Decatur County.

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- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
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- Terrestrial magnetism, Faris, 3.
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- The upland geological formations of Obion, Dyer, etc., Safford, 53.
- Underground water, Glenn, 6.

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- Central basin of Tennessee, Kennedy.
- Cretaceous and Tertiary Peneplains of eastern Tennessee, Dodge.
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- Formation of natural bridges, Cleland.
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- Southern magnetite and magnetic separation, Chase.
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- Improvement of Elk River, Kingman, 6 and 21; Knight, 11.
- Preliminary examination of Elk River, Newcomer, 16; King, 3.
- Survey of Elk River, Kingman, 22.

Emory River.

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- Survey of Emory River, Kingman, 30.

F

Fayette County.

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Terrestrial magnetism, Faris, 1.
- The Middleton formation of Tennessee, Safford, 33.

Fentress County.

- Fentress County, Tennessee, coal and timber, Clarke (Jas. N.).
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- Report of State Geologist, Safford, 31.
- Standingstone folio, Campbell, 1.
- Terrestrial magnetism, Bauer, 1.
- Wartburg folio, Keith, 4.

Fertilizer.

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- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- See Phosphate.

Filint.

Geology of Tennessee, Safford, 22.

Fluorite.

Fluorite and barite in Tennessee, Watson, 2.

Fluorspar in Tennessee, Hayden.

Statistical reports, Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.

The Nashville Division, Southern Railway, 4.

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A brief description of the forests of Tennessee, Anon., 6.

Chestnut oak in the southern Appalachians, Foster and Ashe.

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On the timber line of high mountains, Meehan.

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President's opening address, Killebrew, 11.

Relation between geology and forests, Manning.

Relation of forests to manufacturing industries of Tennessee, Powell, 1.

Relation between geology of Tennessee to manufacturing industry of the state, Powell, 2.

Resources of Tennessee, Anon., 1.

Some native trees for parks and yards, Hinds, 1.

State forestry association for Tennessee (organization), Anon., 2.

Forests—Continued.

Sylviculture in relation to city streets, parks and private grounds, Kelley.

Tennessee forests, Anon., 3.

The southern Appalachian forests, Ayres and Ashe, 1.

The influence of forests on streams, Glenn, 11.

Timber in Tennessee, Killebrew and Safford, 1.

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What can the state do in the matter of forestry, Anon., 4.

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Examination of Forked Deer River, Suter.

Examination of North Fork of Forked Deer River, Benyaard, 4.

Examination of South Fork of Forked Deer River, Benyaard, 5.

Improvement of Forked Deer River, Newcomer, 7 and 14; Willard, 2, 3, 5, 7 and 10; Adams, 2, 5, 7 and 10; Biddle, 1, 7 and 10; Kingman, 24.

Improvement of South Fork of Forked Deer River, Bergland, 1 and 3; Miller (A. M.), 1 and 3.

Improvement of Obion and Forked Deer Rivers, Barden, 2; Harts, 13, 21 and 29; Sears, 4.

Preliminary examination of Obion and Forked Deer Rivers, Sears, 1.

Preliminary examination of North Fork of Forked Deer River, Willard, 11.

Survey of North Forked Deer River, Bidue, 3.

Survey of Forked Deer River, Biddle, 5.

Franklin County.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Oil and gas developments of Tennessee, Munn.

Sewanee folio, Hayes, 10.

Stevenson folio, Hayes, 13.

The topography, geology and water supply of Sewanee, Safford, 49.

French Broad River.

Examination of French Broad River from the Henderson County line, McFarland (Walter), 2.

French Broad River—Continued.

- Geology and mineral resources of part of the Cumberland Gap coal field, Ashley and Glenn.
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- Survey of French Broad River, Kingman, 11; Weltzel, 5.

G

Garnet.

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Geography—Continued.

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- Report of State engineer on surveys for railroads and highways, Lea, (A. M.).
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- Results of primary triangulation and primary traverse, Gannett, 5.

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- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
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- Terrestrial magnetism, Faris, 3.
- Underground water resources of Tennessee, Glenn, 6.

Giles County.

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- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Oil and gas developments in Tennessee, Munn.
- Soil survey of Giles County, Tenn., Ayrs and Gray.

Gold.

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- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Knoxville folio, Keith, 5.

Grainger County.

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- Moristown folio, Keith, 17.
- Soil survey of Grainger County, Tenn., McLendon and Lyman.
- Tennessee marbles, Keith, 15.
- Terrestrial magnetism, Bauer, 1.

Granite.

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Gravel.

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Statistical reports, Shiflett, 5 and 9.

Greene County.

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Description of a mass of meteoric iron which fell near Charlotte, Dickson County, Troost, 19.
Fluorite and barite in Tennessee, Watson, 2.
Geology of Tennessee, Safford, 22.
Greenville folio, Keith, 3.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Morristown folio, Keith, 17.
Soil survey of the Greenville area, Mooney and Ayrs, 1 and 3.
Terrestrial magnetism, Bauer, 1.

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Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
McMinnville folio, Hayes, 16.
Pikeville folio, Hayes, 15.
Sewanee folio, Hayes, 10.
Wonder Cave of Tennessee, Payne.

Gypsum.

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Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

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Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Morristown folio, Keith, 17.
On the composition and structure of Hamblen County, Tennessee, meteorite, Merrill, 2.
Tennessee marbles, Keith, 15.
Terrestrial magnetism, Bauer, 1.

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General description of the ores used in the Chattanooga district, Fleming.
Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Iron operations in the Chattanooga district, Higgins, 1.
Ringgold folio, Hayes, 7.
The iron ores of the Chattanooga district, Bowron, 2.

Hamilton County—Continued.

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Tonnage estimates of Clinton iron ore in the Chattanooga district of Tennessee, Georgia and Alabama, Burchard, 2.

Hancock County.

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Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Morristown folio, Keith, 17.
Tennessee marbles, Keith, 15.

Hardeman County.

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Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Stoneware and brick clays of western Tennessee and northwestern Mississippi, Eckel, 3.
Underground waters, Glenn, 6.

Hardin County.

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Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Silurian and Devonian limestones in Tennessee geology, Foerste, 4.
Terrestrial magnetism, Faris, 3.

Hawkins County.

- Estillville folio, Campbell, 3.
Geology of Tennessee, Safford, 22.
Greenville folio, Keith, 3.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Morristown folio, Keith, 17.
Soil survey of the Greenville area, Mooney and Ayrs, 1 and 2.
Tennessee marbles, Keith, 15.
Terrestrial magnetism, Bauer, 1.

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Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Terrestrial magnetism, Bauer, 2.

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See Mineral Waters.

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Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Soil survey of Henderson County, Carr and Bennett.
Terrestrial magnetism, Faris, 3.

Henry County.

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 Clays in western Kentucky and Tennessee, Crider.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Silurian and Devonian limestones of western Tennessee, Foerste, 4.
 Stoneware and brick clays of western Tennessee and northwestern Mississippi, Eckel, 3.
 Terrestrial magnetism, Faris, 3.
 Underground waters, Glenn, 6.

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 Columbia folio, Hayes and Ulrich.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Phosphate rocks of Tennessee, Phillips, 2.
 Phosphate deposits of southern States (and others), Brown, (Lucius P.), 1, 2, 3, 4, 5, 6, 7, 8.
 Silurian and Devonian limestones of western Tennessee, Foerste, 4.
 Tennessee phosphates, Hayes, 12 and 17.
 Terrestrial magnetism, Faris, 3.

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 Age of the Cincinnati anticlinal, Foerste, 7.
 Age of the southern Appalachians, Elliott.
 Carboniferous of the Appalachian basin, Stevenson, 2.
 Lower Carboniferous of the Appalachian basin, Stevenson, 1.
 On some points in American geological history, Safford, 6.
 On Tennessee geological history, Safford, 5.
 On the Silurian age of the southern Appalachians, Bradley, 4.
 Silurian basin in Middle Tennessee (and others), Safford, 1.
 The late Niagara strata of West Tennessee, Pate and Bassler.

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 Examination of the Hiwassee River, McFarland (Walter), 6.

Hiwassee River—Continued.

- Examination for a canal to connect the waters of the Savannah River with those of the Hiwassee and Tennessee, King, 56.
 Final report on survey of Hiwassee River, Knight, 10.
 Improvement of Clinch, Hiwassee and Holston Rivers, Newcomer, 1, 9 and 17; Harts, 5, 6, 14 and 22; Barden, 3.
 Improvement of Hiwassee River, Knight, 2; Kingman, 37; Barlow, 2, 15, 22, 31, 38 and 52; King, 9, 14, 29, 36, 47, 61, 70, 72 and 78; Bingham, 3; Biddle, 15 and 20; Robert, (Henry M.), 8.
 Preliminary examination of Hiwassee River, Newcomer, 15.
 Profiles of rivers (in Tennessee), Gannett, 6.

Holston River.

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 Examination and survey of Holston River, Kingman, 12.
 Final report on survey of Holston River, Knight, 8.
 Improvement of Clinch, Hiwassee and Holston Rivers, Barden, 3; Harts, 5, 6, 14 and 22; Newcomer, 1, 9 and 17.
 Improvement of Holston River, Knight, 1.
 Report of examinations and surveys (made in 1830), Long.
 Preliminary examination of Holston River, King, 2.
 Profiles of rivers (in Tennessee), Gannett, 6.

Houston County.

- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.
 Terrestrial magnetism, Faris, 3.
 (The water supply of Erin, Tennessee), Safford, 43.

Humphreys County.

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 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Terrestrial magnetism, Faris, 3.

I.**Idocrase.**

- Analysis of Idocrase from Ducktown, Mallett.

Iron.

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 Asheville folio, Keith, 11.
 Briceville folio, Keith, 7.
 Chattanooga folio, Hayes, 9.
 Cleveland folio, Hayes, 14.
 Coal, Colton, 2.
 Coal and iron, Shook.
 Columbia folio, Hayes and Ulrich.
 Comparison of some southern cokes and iron ores, McCreath and D'In-villiers, 2.
 Cranberry folio, Keith, 13.
 Description of Roane Mountain Quad-rangle, Keith, 8.
 Embreeville estate, Tennessee, John-son (Guy R.), 2.
 General description of the ores used in the Chattanooga district, Flem-ing.
 Geology of Tennessee, Safford, 22.
 Greeneville folio, Keith, 3.
 Handbook of Tennessee, Paine.
 Introduction to the Resources of Ten-nessee, Killebrew and Safford, 2.
 Iron and coal of Tennessee, Kille-brew, 18.
 Iron ore deposits of the Cranberry district, Keith, 14.
 Iron ore operations in the Chatta-nooga district, Higgins, 1.
 Iron ores and coals of Alabama, Geor-gia and Tennessee, Porter.
 Iron ores of the United States, Hayes, 24.
 Iron ores of the Shady Valley, Ten-nessee, Garrison.
 Kingston folio, Hayes, 8.
 Knoxville folio, Keith, 5.
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 Maynardville folio, Keith, 16.
 McMinnville folio, Hayes, 16.
 Magnetic iron ore of the Unaka Mountains, N.
 Mineral resources along the line of East Tennessee, Virginia and Geor-gia, Brewer (Wm. M.), 2.
 Notes on the samples of iron ores collected in East Tennessee, Willis, 1 and 3; Chauvent.
 Ores of iron: their geographical de-scription, Newton.
 Ore deposits of the United States, Kemp, 1.
 Pikeville folio, Hayes, 15.
 Regions of West Tennessee of sulphur waters and chalybeate waters, Saf-ford, 52.
 Report on the Cumberland Plateau coal lands, Safford, 50.
 Report on the Embree Iron Furnace properties, Lesley, 4.

Iron—Continued.

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 Report on the Tennessee River and Walden's Ridge iron ores, Koenig, 2; Guild, 1.
 Report upon the mineral and agricul-tural resources of the lands owned by the Hopkins Mastodon Coal and Iron Mining and Manufacturing Company, Safford and Owen.
 Ringgold folio, Hayes, 7.
 Sewanee folio, Hayes, 10.
 Soft iron ores in Tennessee, Judd, 2.
 Some drift hematite in East Tennes-see, Nichols.
 Southern magnetites and magnetic separation, Chase.
 Southern Railway territory, Southern Railway, 1.
 Southern red hematite as an ingre-dient of metallic paint, Burchard, 1.
 Statistical reports, Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9; Hargis, 1.
 Stevenson folio, Hayes, 13.
 Tennessee iron ores, Maxwell.
 The cost of a ton of pig iron in the Sequatchie Valley, Bowron, 1.
 The iron ores of the Chattanooga district, Bowron, 2.
 The Nashville division, Southern Railway, 4.
 The town of Cardiff — and lands and mines of the Cardiff Coal and Iron Company, Smalley.
 The utilization of the iron and cop-per sulphides of Virginia, North Carolina and Tennessee, Boyd (C. R.), 1.
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 Tonnage estimates of Clinton iron ore in the Chattanooga district, Burchard, 2.
 Wartburg folio, Keith, 4.
 Western iron belt of Tennessee, Kil-lebrew, 8.

J.

Jackson County.

- Description of three varieties of me-teoric iron, Troost, 18.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Ten-nessee, Killebrew and Safford, 2.
 Oil and gas developments in Ten-nessee, Munn.
 Standingstone folio, Campbell, 1.

James County.

- Chattanooga folio, Hayes, 9.
 Cleveland folio, Hayes, 14.
 Introduction to the Resources of Ten-nessee, Killebrew and Safford, 2.

James County—Continued.

- Ringgold folio, Hayes, 7.
- Southern red hematite as ingredient of metallic paint, Burchard, 1.

Jefferson County.

- Fluorite and barite in Tennessee, Watson, 2.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Lead and zinc deposits of the Virginia-Tennessee region, Watson, 1.
- Maynardville folio, Keith, 16.
- Morristown folio, Keith, 17.
- Terrestrial magnetism, Bauer, 1.
- Zinc mining in Tennessee, Osgood.

Johnson County.

- Cranberry folio, Keith, 13.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Terrestrial magnetism, Bauer, 1.

K.**Knox County.**

- Briceville folio, Keith, 7.
- Building stone, Merrill, 1.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Knoxville folio, Keith, 5.
- Lead and zinc deposits of the Virginia-Tennessee region, Watson, 1.
- Loudon folio, Keith, 6.
- Maynardville folio, Keith, 16.
- Tennessee marbles, Keith, 15.
- Terrestrial magnetism, Faris, 1; Bauer, 1.

Kraurite.

- Kraurite and Cacoixene in Tennessee, Troost, 15.

L.**Lake County.**

- A second visit to North America, Lyell.
- Clays of West Tennessee, Nelson.
- Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Oil and gas developments in Tennessee, Munn.
- Terrestrial magnetism, Faris, 1.
- Underground waters, Glenn, 6.

Lauderdale County.

- Clays of West Tennessee, Nelson.
- Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Terrestrial magnetism, Faris, 2.
- The upland geological formations of Obion, Dyar, Lauderdale—Safford, 53.
- Underground waters, Glenn, 6.

Lawrence County.

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Oil and gas developments in Tennessee, Munn.
- Silurian and Devonian limestones of western Tennessee, Foerste, 4.
- Soil survey of Lawrence County, Tenn., Mooney and Ayrs, 2.
- Western iron belt of Tennessee, Killebrew, 8.

Lead.

- Briceville folio, Keith, 7.
- Cleveland folio, Hayes, 14.
- Cranberry folio, Keith, 13.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Lead and zinc deposits of Virginia-Tennessee region, Watson, 1.
- Maynardville folio, Keith, 16.
- Mineral resources along the line of the East Tennessee, Virginia and Georgia division of Southern Railway, Brewer (Wm. M.), 2.
- Morristown folio, Keith, 17.
- Southern Railway territory, Southern Railway, 1.
- Statistical reports, Shiflet, 1, 2, 3, 4, 5, 6, 7, 8 and 9.
- The Nashville division, Southern Railway, 4.

Lewis County.

- Columbia folio, Hayes and Ulrich.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Silurian and Devonian limestones of western Tennessee, Foerste, 4.
- Tennessee phosphates, Hayes 12 and 17.
- Terrestrial magnetism, Faris, 1.

Lignite.

- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- The lignitic stage, Harris, 2.

Little Pigeon River.

- Improvement of French Broad and Little Pigeon Rivers, Barden, 4; Biddle, 16 and 25; Bingham, 2; Harts, 4, 7, 15 and 23; Kingman, 4, 19, 27, 32 and 36; Knight, 4 and 12; Newcomer, 2, 10 and 18.
Preliminary examination of Little Pigeon River, Barlow, 1.

Little Tennessee River.

- Examination and survey of Little Tennessee River, Knight, 9.
Examination of the Little Tennessee River, McFarland (Walter), 1 and 7; King, 43 and 44.
Improvement of Little Tennessee River, Barlow, 32, 37 and 47; King, 21 and 26.
Little Tennessee River, King, 4.
Profiles of rivers (in Tennessee), Gannett, 6.

Lime.

- Asheville folio, Keith, 11.
Briceville folio, Keith, 7.
Cranberry folio, Keith, 13.
Greenville folio, Keith, 3.
Knoxville folio, Keith, 5.
Loudon folio, Keith, 6.
Maynardville folio, Keith, 16.
Morristown folio, Keith, 17.
Statistical reports, Shiflett, 4 and 5.
Wartburg folio, Keith, 4.

Limestones.

- Bristol folio, Campbell, 2.
Chattanooga folio, Hayes, 9.
Cleveland folio, Hayes, 14.
Columbia folio, Hayes and Ulrich.
Estillville folio, Campbell, 3.
Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Kingston folio, Hayes, 8.
Ringgold folio, Hayes, 7.
Silurian and Devonian limestones of western Tennessee, Foerste, 4.
Standingstone folio, Campbell, 1.
Statistical reports, Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.
Stevenson folio, Hayes, 13.

Lincoln County.

- Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Oil and gas developments in Tennessee, Munn.

Loudon County.

- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Kingston folio, Hayes, 8.
Loudon folio, Keith, 6.
Tennessee marbles, Keith, 15.
Terrestrial magnetism, Bauer, 1.

M.**Macon County.**

- Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Oil and gas developments in Tennessee, Munn.

Madison County.

- Clays of western Kentucky and Tennessee, Crider.
Clays of West Tennessee, Nelson.
Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.
Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Practical road building in Madison County, Lancaster.
Progress reports of experiments in dust prevention, Page, 3.
Progress reports of experiments in dust preventatives, etc., Page, 1.
Soil survey of Madison County, Lyman, Bennett and McLendon.
Stoneware and brick clays of western Tennessee and northwestern Mississippi, Eckel, 4.
Tar and oil road improvement, Page, 2.
Terrestrial magnetism, Faris, 3.
Underground waters, Glenn, 6.

Manganese.

- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Manganese, Weeks.
Statistical reports, Shiflett, 4, 5, 6, 7, 8 and 9; Lloyd, 2.

Marble.

- Asheville folio, Keith, 11.
Briceville folio, Keith, 17.
Bristol folio, Campbell, 2.
Fifth annual report, Clute, 2.
Fourth annual report, Lloyd, 2.
Geology of Tennessee, Safford, 22.
Greenville folio, Keith, 3.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Loudon folio, Keith, 6.
Maynardville folio, Keith, 16.

Marble—Continued.

- Morristown folio, Keith, 17.
 Southern Railway territory, Southern Railway, 1.
 Statistical reports, Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.
 Tennessee marble industry, Southern Railway, 5.
 Tennessee marbles, Keith, 15.
 Tennessee marble as a building stone, Ferris (Chas.).
 Tennessee marble, Merrill, 1.
 The Nashville division, Southern Railway, 4.
 Third annual report, Lloyd, 1.

Marion County.

- Chattanooga folio, Hayes, 9.
 Cost of pig iron in Sequatchie Valley, Bowron, 1.
 General description of ores used in the Chattanooga district, Fleming.
 Geology and mineral resources of Sequatchie Valley, Bowron, 3.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Iron ores of the Chattanooga district, Bowron, 2.
 Ringgold folio, Hayes, 7.
 Sewanee folio, Hayes, 10.
 Stevenson folio, Hayes, 13.
 Terrestrial magnetism, Bauer, 1.

Marshall County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.

Maury County.

- A brief reconnoissance of the Tennessee phosphate fields, Hayes, 20.
 Columbia folio, Hayes and Ulrich.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.
 Phosphate deposits in Maury County, Tennessee, Killebrew, 9.
 Phosphate rock deposits of Tennessee during 1897, etc., Brown (L. P.), 1, etc.
 Present and future of the Mt. Pleasant field, Ruhm, 2.
 Tennessee phosphates, Hayes, 12 and 17.
 Terrestrial magnetism, Faris, 1.

McMinn County.

- Cleveland folio, Hayes, 14.
 Fluorite and barite in Tennessee, Watson, 2.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Tennessee marbles, Keith, 15.
 Terrestrial magnetism, Bauer, 1.

McNairy County.

- Clays of, Crider; Eckel, 3; Nelson.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Terrestrial magnetism, Faris, 3.
 Underground water resources, Glenn, 6.

Meigs County.

- Chattanooga folio, Hayes, 9.
 Cleveland folio, Hayes, 14.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Kingston folio, Hayes, 8.
 Terrestrial magnetism, Bauer, 1.

Meridian Lines.

- Terrestrial magnetism, Faris, 1, 2 and 3; Bauer, 1 and 2.

Meteorites.

- A new meteorite from Hamblen County, Tennessee, Eakins.
 Analysis of the Drabbs Creek, Tennessee, meteorite, Seybert.
 Analysis of the meteoric iron from Cocke County, Shepard (C. U.), 1.
 Brief description of the Drabbs Creek, Tennessee, meteorite, Silliman, 2.
 Catalogue of all recorded meteorites, Huntingdon, 2.
 Description and analysis of a meteoric mass, Troost, 21.
 Description of a mass of meteoric iron, Troost, 19.
 Description of a mass of meteoric iron discovered near Murfreesboro, Troost, 16.
 Description of three varieties of meteoric iron, Troost, 18.
 Description of varieties of meteoric iron, Troost, 17.
 Descriptive catalogue of the meteorite collection in the United States, Tassin.
 Geology of Tennessee, Safford, 22.
 Meteorisen-Studen, Cohn.
 Notes on a new meteorite from Hendersonville, N. C., and additional pieces of the Smithville, Tenn., fall, Glenn, 1.

Meteorites—Continued.

Notice of the circumstances attending the fall of the Tennessee meteorites, Silliman, 1.

On comparison and structure of the Hamblen County, Tennessee, meteorite, Merrill, 2.

Smithville meteorite, Huntingdon, 1.

Mica.

Cranberry folio, Keith, 13.

Middle Tennessee.

General topography of Middle Tennessee, Safford, 41.

Geology of Tennessee, Safford, 22.

Information for immigrants concerning Middle Tennessee, Killebrew 13.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Letters from the east and from the west, Hall (Frederick).

Remarks on the genus *Tetradium* with notice of the species found in Middle Tennessee, Safford, 38.

Silurian and Devonian limestones of western Tennessee, Foerste, 4.

Silurian basin of Middle Tennessee, with notices of the strata surrounding it, Safford, 1.

The economic and agricultural geology of the State of Tennessee, Safford, 47.

The sanitary geology of Nashville, Winchell (A.), 4.

Millstone.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Mineral Paints.

Resources of East Tennessee, Southern Railway, 2.

Southern red hematite as an ingredient of metallic paint, Burchard, 1.

Statistical reports, Shiflett, 4, 5, 6, 7, 8 and 9.

Mineral Resources.

Cumberland Gap coal field, Ashley, 2 and 3.

Descriptive report of various tracts of mineral lands, Anon., 7.

Distribution of titanic oxide upon the surface of the earth, Dunnington.

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Mineral Resources—Continued.

Geology and mineral resources of Sequatchie Valley, Tennessee, Bowron, 3.

Geology of Tennessee, Safford, 22.

Geological and mineralogical account of the mining districts, Peck.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Letters from the east and from the west, Hall (Frederick).

Mineral and agricultural resources of the portion of Tennessee along the Cincinnati Southern Railway, Killebrew, 3.

Mineral deposits and mining interests along the line of the Nashville, Chattanooga & St. Louis Railway, Killebrew, 19.

Mineral products of Tennessee, Gordon, 2.

Mineral resources of the Brushy Mountain coal field, Bryant.

Mineral resources of upper East Tennessee, Imoden.

Mineral Resources of Tennessee, Proctor (R. D.).

Mineral tract of the East Tennessee and Cherokee Copper Mining Company, Whitney, 3.

More common minerals of the region about Nashville, Glenn, 3.

On the geology, mineralogy, scenery and curiosities of parts of Virginia, Tennessee, Cornelius.

Outline introduction to the mineral resources of Tennessee, Ashley, 5.

Remarks on the changes which take place in the structure and composition of mineral veins near the surface, Whitney, 1.

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Remarkable mineral properties, Koenig, 1.

Report of the department of geology, minerals, mines and mining, Safford, 42.

Report of committee on mineral products, Cook.

Report on the Tennessee River, Walden's Ridge and Carter County ore fields, Roberts (J. B.).

Second annual report of the Commissioner of Labor and Inspector of Mines, Ford, 1.

Special report of the Commissioner of Labor and Inspector of Mines, Ford, 2.

Mineral Resources—Continued.

Statistical reports, Shifflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.

Tennessee, Killebrew, 6.

The mineral and agricultural resources of East Tennessee, Knoxville Board of Trade.

The mineral industry, Rothwell and Struthers.

The mineral resources of the South, Safford, 48.

The resources of the valley of the Cumberland River, Safford, 44.

View of the Valley of the Mississippi, R. B.

(See also under the head of the several minerals.)

Mineral Waters.

An annotated catalogue of the mineral springs and wells of Tennessee, Safford, 34.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Mineral waters of the United States, Crook.

Monteagle spring, Hinds, 2.

Regions of west Tennessee of sulphur waters and chalybeate waters, Safford, 52.

The mineral springs of Tennessee, Lindsley, 2.

Monroe County.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Loudon folio, Keith, 6.

Tennessee marbles, Keith, 15.

Terrestrial magnetism, Bauer, 1.

Montgomery County.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Portland-cement of resources of Tennessee, Ulrich, 1.

Soil survey of Montgomery County, Tennessee, Lapham and Miller.

Terrestrial magnetism, Faris, 3.

Moore County.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Morgan County.

Briceville folio, Keith, 7.

Expert reports on the properties of East Tennessee Land Company, East Tennessee Land Co.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Ten-

Morgan County—Continued.

nessee, Killebrew and Safford, 2.

Kingston folio, Hayes, 8.

Mineral resources of Brushy Mountain coal field, Bryant.

Oil and gas developments in Tennessee, Munn.

Southern Appalachian coal field, Hayes, 23.

Terrestrial magnetism, Bauer, 1.

The town of Cardiff ——— and lands and mines of the Cardiff Coal and Iron Company, Smalley.

Wartburg folio, Keith, 4.

N.**Natural Gas.**

Oil and gas developments in Tennessee, Munn.

Statistical reports, Shifflett, 4, 5, 6, 7, 8 and 9.

The topography and geology of Middle Tennessee as to natural gas, Safford, 37.

Navigation.

Erosion in Appalachians, Glenn, 12.

Final report upon survey of Elk River, Tennessee, Kingman, 16.

Relation of the southern Appalachian mountains to inland water navigation, Leighton and Horton.

Report of examinations and surveys (made in 1830) with a view of improving the navigation of the Holston and Tennessee Rivers, Long.

Slack water navigation and public health, Safford, 32.

Survey of North Forked Deer River, Tennessee, Biddle, 3.

Survey of Forked Deer River from Dyersburg, Biddle, 5.

(See under River Improvement.)

Nickel.

Asheville folio, Keith, 11.

Nolichucky River.

Profiles of rivers (in Tennessee), Gannett, 6.

O.**Obey's River.**

Examination of Caney Fork and Obey's Rivers, King, 71.

Improvement of Obey's River, King, 18, 33, 40, 51 and 66.

Preliminary examination of Obell's (Obey's) River, Barlow, 25.

Obion County.

- A second visit to North America, (on earthquakes), Lyell.
- Clays of West Tennessee, Nelson.
- Drainage of river bottoms and swamp lands of West Tennessee, Cooper.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Terrestrial magnetism, Faris, 3.
- The upland geological formations of Obion, Safford, 53.
- Underground water resources, Glenn, 6.

Obion River.

- Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.
- Drainage problems in Tennessee, Ashley, 6.
- Examination of Obion River, Ben-yaird, 3.
- Improvement of Obion River, Adams, 1, 4, 7 and 9; Biddle, 4, 6, 9, 13 and 22; Kingman, 23.
- Improvement of Obion and Forked Deer Rivers, Barden, 2; Harts, 13, 21 and 29; Newcomer, 7 and 14; Sears, 4.
- Preliminary examination of Obion and Forked Deer Rivers, Sears, 1.
- Preliminary examination of Obion River, Barlow, 9.
- Survey of North Forked Deer River from Dyersburg to main stream, and thence to Obion River, Biddle, 3.
- Survey of North Forked Deer River from Dyersburg, Tennessee, to its junction with the Obion River, Biddle, 5.
- Underground water resources, Glenn, 6.

Oil and Gas.

- Cumberland Gap coal field, Ashley 2 and 3.
- Geography of petroleum, geology of petroleum, Wrigley.
- Geology and mineral resources of part of Cumberland Gap, Ashley and Glenn.
- Geology of Tennessee, Safford, 22.
- Geological report on the petroleum lands and leases of Capt. L. H. Thickstun, Harper (D.), 2.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Mineral Oil, Newberry.

Oil and Gas—Continued.

- Mineral resources of the United State Williams (Albert, Jr.), 1, 2 and 3; Day (D. T.), 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 and 23.
- Notes on the geological position of petroleum reservoirs in southern Kentucky and Tennessee, Safford, 9.
- Oil and gas developments in Tennessee, Munn.
- Oil boom in Tennessee, Schmits.
- Oil region of Tennessee, with some account of its other resources and capabilities, Killebrew, 4.
- Report of a geological reconnaissance of the lands, freehold and leasehold of the Cumberland Basin Petroleum and Mining Company, Ely.
- Report of the Bureau of Agriculture, Statistics and Mines, Killebrew, 16.
- Report on lands of the Jackson Mining and Petroleum Company, Safford, 51.
- Statistical reports, Shiflett, 4, 5, 6, 7, 8 and 9.
- Well records, Lines.

Onyx.

- Resources of East Tennessee, Southern Railway, 2.

Ordovician.

- Cincinnati group in Western Tennessee, between Tennessee River and the Central Basin, Foerste, 5.
- Variation in the thickness of the subdivisions of the Ordovician of Indiana, Foerste, 6.

Overton County.

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Soil survey of Overton County, Ayrs and Hill.
- Standingstone folio, Campbell, 1.

P.**Paleontology.**

- A critical summary of Troost's unpublished manuscript on the crinoids of Tennessee, Wood (Elvira).
- Association of the gasteropod genus *Cuclora* with phosphate of lime deposits, Miller (Arthur M.).
- Camden chert of Tennessee and its Lower Orléans fauna, Safford and Schuchert.
- (Catalogue of) Paleozoic sponges of North America, Head (W. R.).

Paleontology—Continued.

- Contributions to the coal flora of Tracy City, Brown (C. S.).
- Correlation papers, Cretaceous, White (C. A.).
- Description d'un nouveau genre de fossiles, Troost, 11.
- Description of a new species of fossil asterias, Troost, 14.
- Description of new and remarkable fossils from the paleozoic rocks, Miller and Gurley, 2.
- Description of new forms of upper Cambrian fossils, Walcott, 5.
- Description of new species of Fossil Crustacea from the Lower Silurian of Tennessee, Safford and Vodges.
- Description of new species of paleozoic echinodermata, Miller and Gurley, 4.
- Description of some more species of invertebrates from the paleozoic rocks, Miller and Gurley, 6.
- Die Silurische Fauna des westlichen Tennessee, Roemer.
- Exhibition of certain bones of Megalonyx not before known, Safford, 26.
- Fauna of the Lower Cambrian of Olenellus zone, Walcott, 4.
- Finding of the remains of the fossils sloth at Big Bone Cave, Tennessee, Mercer.
- Gastropoda of the Chazy formation, Raymond.
- List of Tennessee Crinoids, Troost, 22.
- New and interesting species of paleozoic fossils, Miller and Gurley, 3.
- New genera and species of Echinodermata, Miller and Gurley, 5.
- New species of crinoids from Illinois and other States, Miller and Gurley, 1.
- New species of Echinodermata and a new crustacean from the paleozoic rocks, Miller and Gurley, 7.
- New species of paleozoic invertebrates from Illinois and other States, Miller and Gurley, 8.
- Notes on the Middleton formation of Tennessee, Mississippi and Alabama, Safford, 20.
- Notes on fossils from Tennessee, Winchell (A.), 3.
- (Note on) tooth of *Petalodus ohioensis*, Safford, 46.
- On the faunal relations of some of the geologic groups of the eastern United States, Rogers (W. B.).
- On the gigantic remains which characterized the Transition series of the valley of the Mississippi, Troost, 3.

Paleontology—Continued.

- On the localities in Tennessee in which bones of gigantic mastodon and *Megalonyx Jeffersonii* are found, Troost, 2.
- On the *Pentremites reinwardtii*, a new fossil, with remarks on the genus *Pentremites*, etc., Troost, 1.
- On some fossils of recent formations, Lesquereux, 2.
- On species of fossil plants from the Tertiary of Mississippi, Lesquereux, 1.
- On Silurian and Devonian Cystida and *Camarocrinus*, Schuchert, 2.
- On the species of *Calceola* found in Tennessee, Safford, 39.
- Paleontology (of New York), Hall (J.), 5.
- Palaeospongiologie, Rauff.
- Remains of the mastodons recently found in Tennessee, McCallie, 3.
- Remarks on some fossil bones recently brought to New Orleans from Tennessee and from Texas, Carpenter.
- Remarks on the genus *Tetradium* with notice of the species found in Middle Tennessee, Safford, 38.

Perry County.

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Oil and gas developments in Tennessee, Munn.
- Tennessee phosphates, Hayes 12, and 17.
- Tennessee white phosphates, Hayes, 2.
- Terrestrial magnetism, Faris, 3.

Petroleum.

- Oil and gas developments in Tennessee, Munn.
- Standingstone folio, Campbell, 1.
- Wartburg folio, Keth, 4.

Phosphate.

- A brief reconnaissance of the Tennessee phosphate fields, Hayes, 20.
- A new and important source of phosphate rock in Tennessee, Safford, 17.
- Columbia folio, Hayes and Ulrich.
- Commercial development of the Tennessee phosphate, Memminger.
- Geological relations of the Tennessee brown phosphate, Hayes, 21.
- Handbook of Tennessee, Paine.
- Horizon of phosphate rocks in Tennessee, Safford, 18.

Phosphate—Continued.

- Mining Tennessee phosphates, Keyes.
 Phosphate deposits of Tennessee during 1897, Brown (L. P.), 1.
 Phosphate deposits of the United States, Van Horn.
 Phosphates deposits of the southern States, Brown (L. P.), 3.
 Phosphate deposits of Tennessee, Killebrew, 10.
 Phosphate deposits in Maury County, Tennessee, Killebrew, 9.
 Phosphate deposits of Tennessee, Killebrew, 17.
 Phosphate of Tennessee, Meadows and Brown.
 Phosphate mining in Tennessee, Ruhm, 1.
 Phosphate rocks of Tennessee, Phillips, 2.
 Phosphate rock, Ewing.
 Phosphate rock in the South, O'Neal.
 Present and future of the Mt. Pleasant phosphate field, Ruhm, 2.
 On the phosphate rocks of Tennessee, Phillips, 1.
 Southern Railway territory, Southern Railway, 1.
 Statistical reports. Hargis, 1; Lloyd, 2; Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.
 Tabulated analyses of commercial fertilizers, Thompson.
 Tennessee phosphates, Hayes, 17, 12 and 25; Johnson (R. O. D.).
 Tennessee phosphate mining during 1896, Brown (L. P.), 6.
 Tennessee phosphate rocks, Safford, 45.
 Tennessee phosphate fields, Ruhm, 3.
 Tennessee phosphate mines during 1897, Brown (L. P.), 8.
 Tennessee phosphate field, Brown, (L. P.), 7.
 White phosphate of Tennessee, Hayes, 18.
 White phosphates of Decatur County, Eckel, 2.

Physiography.

- General topography of Middle Tennessee, Safford, 41.
 Geological dates of origin of certain topographic forms on the Atlantic slope of the U. S., Davis, 2.
 Measurement of mountains of western North Carolina, Guyot, 2.
 Notes and comments on Hull's Physical Geology of Tennessee and adjoining districts, Foerste, 9.
 On Appalachian mountain system, Guyot, 1.

Physiography—Continued.

- On the geology, mineralogy, scenery and curiosities of parts of Virginia, Tennessee, Cornelius.
 On the topography of Nashville, Foster (Wilbur F.).
 On the physical geology of Tennessee and adjoining districts in the U. S., Hull.
 Origin of cross valleys, Davis, 1.
 Physio-geographical and agricultural features of the States of Tennessee and Kentucky, Safford, 12.
 Physiography of the Chattanooga district in Tennessee, Georgia and Alabama, Hayes, 19.
 Physical topography in its relation to medicine, Currey, 3.
 Some stages of Appalachian erosion, Keith, 1.
 Southern Appalachians, Hayes, 11.
 The Appalachian River in eastern Tennessee, White (C. H.).
 The Cherokee Nation of Indians, Royce.
 The Cretaceous and Tertiary peninsulas of eastern Tennessee, Dodge.
 The Geology of Tennessee, Safford, 40.
 The geomorphology of the southern Appalachians, Hayes and Campbell.
 The Tertiary history of the Tennessee River, Johnson (D. W.).
 The topography, geology and water supply of Sewanee, Safford, 49.

Pickett County.

- Oil and gas developments in Tennessee, Munn.
 Standingstone folio, Campbell, 1.

Pleistocene.

- On the relationship of the Pleistocene to the pre-Pleistocene formations of the Mississippi basin south of the limits of the glaciation, Chamberlain and Salisbury.

Polk County.

- A brief notice of some facts connected with the Ducktown, Tenn., copper mines, Tuomey.
 Analysis of Idocrase from Ducktown, Mallett.
 Cleveland folio, Hayes, 14.
 Copper deposits of the eastern United States, Weed, 3.
 Copper deposits of the Appalachian states, Weed, 4.
 Copper mines of the United States, Weed 2.
 Der Ducktown - Kufergrubendistrict in den Vereinigten Staaten von Nord-Amerika, Wendeborn.

Polk County—Continued.

- Ducktown copper mining district, McCallie, 1.
- Ducktown ore deposits and the treatment of the Ducktown copper ores, Henrich.
- Ducktown, Tenn. copper mining district, Brewer (Wm. M.), 1.
- Erosion at Ducktown, Glenn, 7.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Minerals of the copper mines at Ducktown, Kemp, 2.
- Mining and smelting copper in the Ducktown district, Higgins, 2.
- Notes and recollections concerning the mineral resources of northern Georgia and western North Carolina, Blake, 1.
- On the copper lodes of Ducktown in east Tennessee, Ansted.
- Report on the Ducktown copper region and the mines of the Union Consolidated Mining Company, Shepard (C. U.), 2 and 3.
- Report on the Ocoee and Hiwassee mineral district, Killebrew, 2.
- Terrestrial magnetism, Bauer, 1.
- The deposits of copper ores at Ducktown, Tenn., Kemp, 3.
- Types of copper deposits in the southern United States, Weed, 5.

Powell's River.

- Examination of Powell's River, King, 55.
- Examination of Powell's, Clinch and Emory Rivers, McFarland (Walter), 3.
- Preliminary examination of Powell's River, Kingman, 14.
- Profiles of rivers (in Tennessee), Gannett, 6.

Putnam County.

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Oil and gas developments in Tennessee, Munn.
- Standingstone folio, Campbell, 1.
- Terrestrial magnetism, Bauer, 2.

Pyrite.

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

R.**Rainfall.**

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- In Gibson County, Morgan and McCrory.

Red River.

- Examination of Red River, King, 57.
- Improvement of Red River, King, 20, 25, 42 and 53.

Rhea County.

- Chattanooga folio, Hayes, 9.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Kingston folio, Hayes, 8.
- Pikeville folio, Hayes, 15.
- Soil survey of the Pikeville area, Wilder and Gelb.
- Terrestrial magnetism, Bauer, 1.
- The Dayton coal mine explosion, Clute, 1.

Richland River.

- Preliminary examination of Richland River, Kingman, 15.

River Improvement.

- See under river by name; or Harts, King, Gooethals, Bingham, Biddle, Bergland, Banyard, Barden, Adams, Willard, Weitzel, Sears, Robert (Henry M.), Overman, Newcomer, Miller (A. M.), McFarland (Walter), Long, Knight and Kingman.

River Survey.

- See under river by name or King, Gaw, Fitch, Biddle, Benyard, Barlow, Anon., 12, Willard, Weitzel, Suter, Sears, Roessler, Robert (Henry M.), Newcomer, McFarland (Walter), Knight and Kingman.

Roads.

- Practical road building in Madison County, Tenn., Lancaster.
- Progress reports of experiments with dust prevention, road preservation and road construction, Page, 3.
- Progress reports of experiments with dust preventatives, Page, 1.
- Public roads of Tennessee, Eldridge.
- Tar and oil for road improvement, Page, 2.

Roane County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Kingston folio, Hayes, 8.
 Loudon folio, Keith, 6.
 Tennessee marbles, Keith, 15.
 Terrestrial magnetism, Bauer, 1.
 The town of Cardiff ——— and lands and mines of the Cardiff Coal and Iron Company, Smalley.

Robertson County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.
 Portland cement resources of Tennessee, Ulrich, 1.

Rutherford County.

- Descriptoin of a mass of meteoric iron discovered near Murfreesboro, Troost, 16.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.

S.**Salt.**

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Saltpetre.

- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Sand.

- Geology of Tennessee, Safford, 22.
 Orange sand, Lagrange and Appomattox, Hilgard (E. W.), 2.
 Statistical reports, Shiflett, 4, 5, 6, 7, 8 and 9.

Sandstone.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Statistical reports, Shiflett, 1, 2, 3, 4, 5, 6, 7, 8 and 9.

Sandstone-Iron.

- Geology of Tennessee, Safford, 22.
 Underground water resources, Glenn, 6.

Savannah River.

- Examination for a canal to connect the waters of the Savannah River with those of the Hiwassee and Tennessee, King, 56.

Scott County.

- Briceville folio, Keith, 7.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Munn.
 Southern Appalachian coal field, Hayes, 23.
 Terrestrial magnetism, Bauer, 1.
 Wartburg folio, Keith, 4.

Sequatchie County.

- Chattanooga folio, Hayes, 9.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments of Tennessee, Munn.
 Pikeville folio, Hayes, 15.
 Profiles of rivers (in Tennessee), Gannett, 6.
 Sewanee folio, Hayes, 10.
 Terrestrial magnetism, Bauer, 1.

Sequatchie River.

- Preliminary examination of Sequatchie River, Robert (Henry M.), 5.

Sevier County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Knoxville folio, Keith, 5.
 Maynardville folio, Keith, 16.
 Tennessee marbles, Keith, 15.
 Terrestrial magnetism, Bauer, 1.

Shelby County.

- Artesian-well pumps at Memphis, Engineering Record.
 Clays of West Tennessee, Nelson.
 Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.
 Formations and artesian wells of Memphis, Safford, 14.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments of Tennessee, Munn.
 Terrestrial magnetism, Bauer, 2; Faris, 2.
 The upland geological formations of Obion, Dyer, Lauderdale, Tipton and Shelby Counties—Safford, 53.
 Underground water resources, Glenn, 6.
 Water supply of Memphis, Safford, 14.

Silver.

- Cranberry folio, Keith, 13.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Slate.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Knoxville folio, Keith, 5.
 Loudon folio, Keith, 6.
 Southern Railway territory, Southern Railway, 1.

Smith County.

- Description of three varieties of meteoric iron, Troost, 18.
 Fluorite and barite in Tennessee, Watson, 2.
 Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments of Tennessee, Munn.

Soapstone.

- Asheville folio, Keith, 11.
 Cranberry folio, Keith, 13.

Soil.

- Cumberland coal field, Ashley, 2 and 3.
 Geological and mineral resources of part of the Cumberland Gap coal field, Ashley and Glenn.
 Geology of Tennessee, Safford, 22.
 Report on the culture and curing of tobacco in the United States, Killebrew, 5.
 Review of the general soil map of the Cotton States, Hilgard (E. W.), 4.
 Soil survey of Coffee County, McLendon and Zappone.
 Soil survey of Davidson County, Smith and Bennett.
 Soil survey of Giles County, Tenn., Ayrs and Gray.
 Soil survey of Grainger County, McLendon and Lyman.
 Soil survey of Henderson County, Carr and Bennett.
 Soil survey of Lawrence County, Mooney and Ayrs, 2.
 Soil survey of Madison County, Lyman, Bennett and McLendon.
 Soil survey of Overton County, Ayrs and Hill.
 Soil survey of the Greeneville area, Mooney and Ayrs, 1 and 3.
 Soil survey of the Pikeville area, Wilder and Gelb.
 The soils of Tennessee, Vanderford.

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 Biennial report of the Bureau of Agriculture, Statistics and Mines, Hord.
 Biennial report of the Commissioner of Agriculture, McWhirter, 2.
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 Nineteenth annual report of the Mining Department, Shiffett, 9.
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Stewart County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Portland cement resources of Tennessee, Ulrich, 1.

Stone—Building.

- Asheville folio, Keith, 11.
 Briceville folio, Keith, 7.
 Cleveland folio, Hayes, 14.
 Columbia folio, Hayes and Ulrich.
 Cranberry folio, Keith, 13.
 Cumberland Gap coal field, Ashley, 2 and 3.
 Geology and mineral resources of part of Cumberland Gap, Ashley and Glenn.
 Geology of Tennessee, Safford, 22.
 Greeneville folio, Keith, 3.
 Illustrations of polished rock surfaces, Morgan (H. J.).
 Knoxville folio, Keith, 5.
 Loudon folio, Keith, 6.
 McMinnville folio, Hayes, 16.
 Maynardville folio, Keith, 16.
 Morristown folio, Keith, 17.
 Notice of the Oolitic formation in America, etc., Lea (I.).

Stone—Building—Continued.

- Pikeville folio, Hayes, 15.
 Relation of the strength of marble to its structure, Perry.
 Statistical reports, Shiflett, 4, 5, 6, 7, 8 and 9.
 Stones for building and decoration, Merrill, 1.
 Stevenson folio, Hayes, 13.
 Tennessee (building stone), Cotton and Gattinger.
 Tennessee marble as a building stone, Ferris (Chas.).
 The Nashville division, Southern Railway, 4.

Stone—Lithographic.

- Lithographic stone from Tennessee, Howe.
 Stevenson folio, Hayes, 13.

Stoneware and Brick Clays.

- Clays of West Tennessee, Nelson.
 Stoneware and brick clays of western Tennessee and northwestern Mississippi, Eckel, 3.

Stratigraphy.

- Appomattox formation on the Mississippi embayment, McGee, 1.
 Cambrian system in the United States and Canada, Walcott, 2.
 Chart of geological nomenclature intended to express the relation of Minnesota to the great geological series of the earth, Winchell, (N. H.)
 Classification of the geological formations of Tennessee, Safford, 19.
 Correlation of the Lower Silurian horizons of Tennessee, Ulrich, 2.
 Correlation papers, Cretaceous, White (C. A.).
 Description of two new species of fossil shells of the genera scaphites and Crepidula, etc., Morton.
 Documents anciens et nouveaux sur la faune premordiale et le systeme taconique en Amerique, Barrande.
 General features of the alluvial plain to the Mississippi River below the mouth of the Ohio, Hilgard (E. W.), 1.
 Midway stage, Harris, 1.
 Modes of depositon of the Lafayette formation in the Mississippi valley, Hilgard (E. W.), 7.
 North America Mesozoic and Cenozoic geology and paleontology, Miller (S. A.), 2.
 Notes and description of fossils from the Marshall groups of the eastern States, with notes on fossils from other formations, Winchell (A.), 2.

Stratigraphy—Continued.

- Notes on the Middleton formation of Tennessee, Mississippi and Alabama, Safford, 20.
 Observations on the unification of geological nomenclature, with special reference to the Silurian formation of North America, Miller (S. A.), 1.
 On the Cretaceous and superior formations of western Tennessee, Safford, 8.
 On the geological age and equivalents of the Marshall group, Winchell (A.), 1.
 On the relations of the middle and upper Silurian, Hall (J.), 7.
 Remarks on the drift of the Western and Southern States, Hilgard (E. W.), 6.
 Remarks on the formations comprised under the terms "Orange sand", McGee, 6.
 Remarks on the relative age of the Niagara and the so-called Lower Helderberg groups, Worthen.
 Remarks on the taconic system, Stevens.
 Remarks on the thickness and identity of the Calciferous formations from Canada to Tennessee, Walcott, 3.
 Silur-fauna des westlichen Tennessee, Roemer.
 Tennessee, Safford, 13.
 The age and origin of the LaFayette formation, Hilgard (E. W.), 8.
 The Columbia formation in the Mississippi embayment, McGee, 5.
 The LaFayette formation, McGee, 4.
 The Loess of the Mississippi valley and the aeolian hypothesis, Hilgard (E. W.), 5.
 The Middleton formation of Tennessee, Mississippi and Alabama, Safford, 33.
 The upland geological formations of Obion, Dyer, Lauderdale, Tipton and Shelby Counties—Safford, 53.
 Use of the term Linden and Clifton limestones in Tennessee geology, Foerste, 3.
 Utica slate and related formations of the same geological horizon, Walcott, 1.

Cambrian.

- Cambrian system of the United States and Canada, Walcott, 2.
 Notes on the Cambrian rocks of Virginia and the southern Appalachians, Walcott, 6.

Stratigraphy—Continued.

Pre-Cambrian geology of North America, Van Hise.

Remarks on the thickness and identity of the Calciferous formation, Walcott, 3.

Carboniferous.

Carboniferous of the Appalachian Basin, Stevenson, 2.

Cretaceous.

Correlation papers, Cretaceous, White (C. A.).

On the Cretaceous and superior formations of western Tennessee, Safford, 8.

The Cretaceous and Tertiary peninsulas of eastern Tennessee, Dodge.

Devonian.

Correlation papers, Devonian and Carboniferous, Williams.

Lower Carboniferous of the Appalachian Basin, Stevenson, 1.

On Marcellus and Hamilton of the south and west, Rogers (H. D.), 3.

Silurian and Devonian limestones of west Tennessee, Foerste, 4.

Ordovician.

A correlation of the lower Silurian horizons of Tennessee, with those of New York, Ulrich, 2.

Cincinnati group in western Tennessee, Foerste, 5.

Lower Silurian deposits of the upper Mississippi, Winchell (N. H.) and Ulrich.

On the parallelism of the Lower Silurian groups of Middle Tennessee with those of New York, Safford, 2.

Preliminary notes on Cincinnati fossils, Foerste, 8.

Silurian basin of Middle Tennessee, Safford, 1.

Utica slate and related formations, Walcott, 1.

Variation in thickness of subdivisions of Ordovician, Foerste, 6.

Paleozoic.

Paleozoic intraformational conglomerates, Walcott, 7.

Quaternary.

Drift of southern States, Hilgard (E. W.), 6.

On the geological history of the Gulf of Mexico, Hilgard (S. P.).

Quaternary formation of the State of Mississippi, Hilgard (E. W.), 3.

Remarks on the formations comprised under the term "Orange sand", McGee, 6.

The Columbia formation, McGee, 5.

Stratigraphy—Continued.

The loess of Mississippi valley, Hilgard (E. W.), 5.

Silurian.

Die Silurische Fauna des westlichen Tennessee, Roemer.

Late Niagara strata of West Tennessee, Pate and Bassler.

Silurian and Devonian limestones of Tennessee and Kentucky, Foerste, 1.

Silurian and Devonian limestones of western Tennessee, Foerste, 4.

Upper Silurian beds of West Tennessee, Safford, 7.

Use of the term Linden and Clifton limestones, Foerste, 2 and 3.

Tertiary.

Age and origin of the LaFayette formation, Hilgard (E. W.), 8.

Appomattox formation on the Mississippi embayment, McGee, 1.

Contributions to the Tertiary geology and paleontology of the United States, Hellprin, 2.

LaFayette formation, McGee, 4.

Mode of deposition of the LaFayette formation, Hilgard (E. W.), 7.

Orange sand, Lagrange and Appomattox, Hilgard (E. W.), 2.

Remarks on the formation comprised under the term "Orange sand", McGee, 6.

Southern extension of the Appomattox formation, McGee, 2.

Tertiary geology of eastern and southern United States, Hellprin, 1.

The lignitic stage, Harris, 2.

The midway stage, Harris, 1.

Structural Geology.

Folded faults of the southern Appalachians, Keith, 12.

Fossiliferous sandstone dikes in the Eocene of Tennessee and Kentucky, Glenn, 2.

Geology of Chilhowee Mountain in Tennessee, Keith, 2.

Message from the President of the United States, Roosevelt.

Notes on the age and structure of the several mountain axes in the neighborhood of the Cumberland Gap, Shaler.

Note on a fine upthrow fault at Embreeville Furnace, Lesley, 2.

On a cross anticlinal in the coal measure of eastern Tennessee, Lesley, 3.

On the faults of southern Virginia, Lesley, 1.

Structural Geology—Continued.

On the physical structure of the Appalachian chain, etc., Rogers and Rogers.

Remarks on the changes which take place in the structure and composition of mineral veins, Whitney, 2.

The overthrust faults of the southern Appalachians, Hayes, 1.

Sullivan County.

Bristol folio, Campbell, 2.

Description of the Roane Mountain Quadrangle, Keith, 8.

Economic geology of the Bristol and Big Stone Gap section, Boyd (C. R.), 2.

Estillville folio, Campbell, 3.

Geology of Tennessee, Safford, 22.

Greeneville folio, Keith, 3.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Soil survey of the Greeneville area, Mooney and Ayrs, 3.

Soil survey of the Greeneville area, Tenn.-N. C., Mooney and Ayrs, 2.

Terrestrial magnetism, Bauer, 1.

Sumner County.

A brief reconnoissance of the Tennessee phosphate fields, Hayes, 20.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Oil and gas developments of Tennessee, Munn.

T.**Talc.**

Asheville folio, Keith, 11.

Tennessee River.

Examination for canal to connect the waters of the Savannah River with those of the Hiwassee and Tennessee, King, 56.

Examination of Tennessee River at Moccasin Bend, Kingman, 8.

Improvement of Tenn. River, Biddle, 14 and 21; Barden, 6; Barlow, 5, 17, 24, 34, 35 and 54; Bingham, 5; Goethals, 1, 4, 5 and 7; Harts, 2, 9, 17 and 25; King, 11, 12, 27, 34, 45, 59, 68, 73, 75 and 76; Kingman, 2, 17, 29, 34 and 39; Knight, 6 and 15; McFarland (Walter), 4, 8, 11, 13 and 14; Newcomer, 4, 12 and 20; Overman; Robert (Henry M.), 7; Weitzel, 1, 2 and 3.

Preliminary report on survey of Tennessee River, Kingman, 9.

Tennessee River—Continued.

Report on examinations and surveys on the Tennessee River, Gaw.

Report on examinations and surveys (made in 1830), Long.

Report upon survey of Tennessee River, Robert (Henry M.), 1.

Resurvey of the Tennessee River, Anon., 12.

Survey of the Tennessee River, Kingman, 1 and 2.

Tennessee River above Chattanooga, King, 80 and 81.

Tennessee River—Muscle Shoals.

Operating and care of Muscle Shoals canal, Barden, 5; Bingham, 4; Goethals, 2, 3, 6 and 8; Harts, 3, 8, 16 and 24.

Operating and care of Muscle Shoals, Kingman, 3, 18, 28, 33, and 38; Knight, 5 and 14; Newcomer, 3, 11 and 19.

Profiles of rivers (in Tennessee), Gannett, 6.

Tennessee River at Muscle Shoals, Newcomer, 8.

Timber.

Briceville folio, Keith, 7.

Cranberry folio, Keith, 13.

Knoxville folio, Keith, 5.

Loudon folio, Keith, 6.

Maynardville folio, Keith, 16.

Morristown folio, Keith, 17.

Wartburg folio, Keith, 4.

See Forests.

Tipton County.

Clays of West Tennessee, Nelson.

Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.

Geology of Tennessee, Safford, 22.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

Oil development in Tennessee, Munn.

Terrestrial magnetism, Faris, 2.

The upland geological formations of Obion, Dyer, Lauderdale, Tipton and Shelby Counties, Safford, 53.

Underground water resources, Glenn, 6.

Titanium.

Distribution of titanite upon the surface of the earth, Dunnington.

Trousdale County.

Introduction to the Resources of Tennessee, Killebrew and Safford, 2.

U.

Unaka.

Azoic system and its proposed subdivisions, Whitney and Wadsworth. *Geology of Tennessee*, Safford, 22.
Magnetic iron ores of the Unaka Mountains, North Carolina and Tennessee, N.

On Unakyte, an epidotic rock from the Unaka range, on the borders of Tennessee and North Carolina, Bradley, 1.

Round about Asheville, Willis, 2.

Unicol County.

Asheville folio, Keith, 11.
Description of the Roane Mountain quadrangle, Keith, 8.
Greenville folio, Keith, 3.
Mt. Mitchell folio, Keith, 9.
Terrestrial magnetism, Bauer, 1.

Union County.

Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Lead and zinc deposits of the Virginia-Tennessee region, Watson, 1.
Maynardville folio, Keith, 16.
Prospectus of the Southern Zinc Company, Anon., 9.
Tennessee marbles, Keith, 15.
Terrestrial magnetism, Bauer, 1.
Zinc in eastern Tennessee, Clarke (W. C.), 2.

V.

Van Buren County.

Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
McMinnville folio, Hayes, 16.
Pikeville folio, Hayes, 15.
Soil survey of the Pikeville area, Wilder and Geib.

W.

Warren County.

Geology of Tennessee, Safford, 22.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
McMinnville folio, Hayes, 16.
Oil and gas developments in Tennessee, Munn.
Record of well boring in Warren County, Satterfield.

Washington County.

Description of the Roane Mountain quadrangle, Keith, 8.
Embreeville estate, Johnson (Guy R.), 1 and 2.

Washington County—Continued.

Fluorite and barite in Tennessee, Watson, 1.
Geology of Tennessee, Safford, 22.
Greenville folio, Keith, 3.
Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
Terrestrial magnetism, Bauer, 1.

Water.

An inquiry into the present quality of the public water supply of Nashville, Brown (L. P.), 5.
Bibliographic review and index of papers relating to underground water, etc., Fuller.
Erosion, at Ducktown, Tennessee, Glenn, 7.
Filtering galleries as applied to the water supply of Nashville, McDonald.
Forestry and stream flow, Harts, 1.
Message from President of the United States, Roosevelt.
Mineral waters, Peale.
New well and hydraulic pumping at Peoria, Ill., Maury.
Notes on the wells, springs and general water resources of Tennessee, Glenn, 4.
Notes on the underground water of Tennessee and Kentucky, Glenn, 10.
Preliminary list of deep borings in the U. S., Darton.
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Report on chemical analysis of Davidson County water, Day (Wm. C.), 2.
Report upon the results of boring at Memphis, Tenn., Wilson.
Slack water navigation and public health, Safford, 32.
Sources of contamination of Nashville drinking water Day, (Wm. C.), 1.
Statistical reports, Shiffett, 4, 5, 6, 7, 8 and 9.
Summary of the mineral production of the U. S. in 1904, Day (D. T.).
Surface water supply of the U. S., Horton, Hall and Bolster.
The influence of forests on streams, Glenn, 11.
The mineral waters of the U. S., Crook.
The resources of the valley of the Cumberland River, Safford, 44.

Water—Continued.

- The topography, geology and water supply of Sewanee, Safford, 49.
- The water supply of Chattanooga, Rothmell and Eaton.
- The water supply of Erin, Tennessee, Safford, 43.
- The water supply of Memphis, Safford, 14.
- The source of Nashville water supply, Walker.
- Underground waters of eastern U. S., Glenn, 9.
- Underground waters of Tennessee and Kentucky, Glenn, 6.

Water Power.

- Appalachian powers, Southern Railway, 3.
- Asheville folio, Keith, 11.
- Cranberry folio, Keith, 13.
- Greenville folio, Keith, 3.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Knoxville folio, Keith, 5.
- Loudon folio, Keith, 6.
- Maynardville folio, Keith, 16.
- Morristown folio, Keith, 17.
- Relation of the southern Appalachian Mountains to the development of water power, Leighton, Hall and Bolster.
- Resources of East Tennessee, Southern Railway, 2.
- Some Tennessee water powers, Wilks.
- The Nashville division, Southern Railway, 4.
- Water powers and eligible sites for manufacturing industries, Killebrew, 15.
- Water powers on eastern tributaries of the Mississippi, Greenleaf.

Water Resources.

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- Profiles of rivers (in Tennessee), Gannett, 6.
- Prof. Guyot's measurements of the Allegheny system, Gilman.
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Water Resources—Continued.

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Wayne County.

- Cincinnati group in western Tennessee, Foerste, 5.
- Description of some new species of invertebrates from the paleozoic rocks of Illinois and adjacent States, Miller and Gurley, 6.
- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Silurian and Devonian limestones of western Tennessee, Foerste, 4.
- Tennessee phosphates, Hayes, 12 and 17.
- Terrestrial magnetism, Faris, 3.

Weakley County.

- Geology of Tennessee, Safford, 22.
- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
- Terrestrial magnetism, Faris, 3.

Wells—Artesian.

- Artesian-well pumps at Memphis, Tenn., Engineering Record.
- Formations and artesian wells of Memphis, Tenn., Safford, 14.

Well-Boring.

- Record of well-boring in Warren County, Satterfield.

West Tennessee.

- A second visit to North America, Lyell.
- Clays of western Kentucky and Tennessee, Crider.
- Clays of West Tennessee, Nelson.
- Clays of the United States, Ries.
- Drainage of the river bottoms and swamp lands of West Tennessee, Cooper.
- Drainage problems of Tennessee, Ashley, 6.

West Tennessee—Continued.

- Die Silurische Fauna des westlichen Tennessee, Roemer.
 Geology of the Mississippi embayment, Dabney.
 Geology of Tennessee, Safford, 22.
 Geology of West Tennessee, Tenney, 1.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Midway stage, Harris, 1.
 Mississippi valley, its physical geography, etc., Foster (J. W.).
 Observations of the geological structure of the valley of the Mississippi, Nuttall.
 On some fossil plants of recent formations, Lesquereux, 2.
 On some species of fossil plants from the Tertiary of Mississippi, Lesquereux, 1.
 On the elevation of the banks of the Mississippi, Usher.
 Regions of West Tennessee sulphur waters and chalybeate waters, Safford, 52.
 Silurian and Devonian limestones in western Tennessee, Foerste, 4.
 Silu-Fauna des westlichen Tennessee, Roemer.
 Stoneware and brick clays of western Tennessee and northwestern Mississippi, Eckel, 3.
 The economic and agricultural geology of the State of Tennessee, Safford, 47.
 The Loess of the Mississippi valley and the aeolian hypothesis, Hilgard (E. W.), 5.
 Underground water resources, Glenn, 6.

White County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 McMinnville folio, Hayes, 16.
 Oil and gas developments in Tennessee, Munn.
 Pikeville folio, Hayes, 15.
 Standingstone folio, Campbell, 1.
 Terrestrial magnetism, Faris, 1.

Williamson County.

- Columbia folio, Hayes and Ulrich.
 Geology of Tennessee, Safford, 22.

Williamson County—Continued.

- Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Tennessee phosphates, Hayes, 12.

Wilson County.

- Geology of Tennessee, Safford, 22.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Oil and gas developments in Tennessee, Mun.

Wolf River.

- Preliminary examination of Wolf River, Roessler; Fitch.

Z.

Zinc.

- Geology of Tennessee, Safford, 22.
 Greeneville folio, Keith, 3.
 Introduction to the Resources of Tennessee, Killebrew and Safford, 2.
 Lead and zinc deposits of the Virginia-Tennessee region, Watson, 1.
 Les principaux gisements de minerais de zinc des Etats-Unis d'Amerique, Demaret.
 Maynardville folio, Keith, 16.
 Mineral resources along the line of the East Tennessee-Virginia and Georgia division of the Southern Railway, Brewer (Wm. M.), 2.
 Morristown folio, Keith, 17.
 Production and properties of zinc, Ingalls.
 Prospectus of the Southern Zinc Company, Anon., 9.
 Recent zinc mining in East Tennessee, Keith, 10.
 Southern Railway territory, Southern Railway, 1.
 Statistical reports, Shifflett, 1, 2, 3, 4, 5, 7, 8 and 9.
 The Nashville division, Southern Railway, 4.
 Zinc belt of Claiborne and Union Counties, Tennessee, Clarke (W. C.), 2.
 Zinc deposit of Tennessee, Gordon, 3.
 Zinc in eastern Tennessee, Clarke (W. C.), 2.
 Zinc mining in Tennessee.

Zircons.

- Note on zircons in Unaka magnetite, Blake, 2.

Classified Key to Index

Agricultural geology	81
Alum	81
Analyses	81
Anderson County	81
Appalachians	81
Artesian wells	81
Asbestos	81
Barite	82
Bauxite	82
Bedford County	82
Benton County	82
Big Hatchie River.....	82
Big Pigeon River.....	82
Bledsoe County	82
Blount County	82
Boulder	82
Bradley County	82
Cacoxene	82
Campbell County	82
Caney Fork River.....	82
Cannon County	83
Carroll County	83
Carter County	83
Caves	83
Cement	83
Central basin	83
Cheatham County	83
Chester County	83
Chromite	83
Claiborne County	83
Clay County	83
Clay	83
Climate	84
Clinch River	84
Coal	84
Cocke County	85
Coffee County	85
Copper	85
Copperas	86
Corundum	86
Crockett County	86
Cumberland County	86
Cumberland Plateau	86

Cumberland River	86
Davidson County	86
Decatur County	87
DeKalb County	87
Dickson County	87
Drainage	87
Duck River	87
Dyer County	87
Dynamic geology	87
Earthquake	87
East Tennessee	87
Economic geology	88
Elk River	88
Emory River	88
Fayette County	88
Fentress County	88
Fertilizer	88
Flint	89
Fluorite	89
Forests	89
Forked Deer River.....	89
Franklin County	89
French Broad River.....	89
Garnet	90
General geology	90
Geography	91
Gibson County	91
Giles County	91
Gold	91
Grainger County	91
Granite	91
Gravel	92
Greene County	92
Grundy County	92
Gypsum	92
Hamblen County	92
Hamilton County	92
Hancock County	92
Hardeman County	92
Hardin County	92
Hawkins County	92
Haywood County	92
Health resorts	92
Henderson County	92
Henry County	93
Hickman County	93
Historical geology	93
Hiwassee River	93
Holston River	93

Houston County	93
Humphreys County	93
Idocrase	93
Iron	93
Jackson County	94
James County	94
Jefferson County	95
Johnson County	95
Knox County	95
Kraurite	95
Lake County	95
Lauderdale County	95
Lawrence County	95
Lead	95
Lewis County	95
Lignite	95
Little Pigeon River.....	96
Little Tennessee River.....	96
Lime	96
Limestones	96
Lincoln County	96
Loudon County	96
Macon County	96
Madison County	96
Manganese	96
Marble	96
Marion County	97
Marshall County	97
Maury County	97
McMinn County	97
McNairy County	97
Melgs County	97
Meridian lines	97
Meteorites	97
Mica	98
Middle Tennessee	98
Millstone	98
Mineral paints	98
Mineral resources	98
Mineral waters	99
Monroe County	99
Montgomery County	99
Moore County	99
Morgan County	99
Natural gas	99
Navigation	99
Nickel	99
Nolichucky River	99
Obey's River	99

Obion County	100
Obion River	100
Oil and gas.....	100
Onyx	100
Ordovician	100
Overton County	100
Paleontology	100
Perry County	101
Petroleum	101
Phosphate	101
Physiography	102
Pickett County	102
Pleistocene	102
Polk County	102
Powell's River	103
Putnam County	103
Pyrite	103
Rainfall	103
Red River	103
Rhea County	103
Richland River	103
River improvement	103
River survey	103
Roads	103
Roane County	104
Robertson County	104
Rutherford County	104
Salt	104
Saltpetre	104
Sand	104
Sandstone	104
Sandstone-iron	104
Savannah River	104
Scott County	104
Sequatchie County	104
Sequatchie River	104
Sevier County	104
Shelby County	104
Silver	105
Slate	105
Smith County	105
Soapstone	105
Soil	105
Statistical reports	105
Stewart County	105
Stone	105
Building	105
Lithographic	106
Stoneware and brick clays.....	106

Stratigraphy	106
Cambrian	106
Carboniferous	107
Cretaceous	107
Devonian	107
Ordovician	107
Paleozoic	107
Quaternary	107
Silurian	107
Tertiary	107
Structural geology	107
Sullivan County	108
Sumner County	108
Talc	108
Tennessee River	108
Tennessee River Muscle Shoals.....	108
Timber	108
Tipton County	108
Titanium	108
Trousdale County	108
Unaka	109
Unicoi County	109
Union County	109
Van Buren County	109
Warren County	109
Washington County	109
Water	109
Water power	110
Water resources	110
Wayne County	110
Weakley County	110
Wells	110
Artesian	110
Boring	110
West Tennessee	110
White County	111
Williamson County	111
Wilson County	111
Wolf River	111
Zinc	111
Zircons	111

Publications of the State Geological Survey of Tennessee

The following list shows the publications issued by the State Geological Survey or in preparation at the time this bulletin goes to press, March, 1911. Except for five hundred copies of each publication (which are reserved for sale at the cost of printing), the bulletins will be sent free on request, accompanied by stamps, made to the State Geologist, Capitol Annex, Nashville, Tenn.

Bulletin Nos. 1-A, 2-A, 2-E, 2-G and 3, issued.

Bulletin No. 1.—Geological work in Tennessee (Parts A and B issued).

- A. The establishment, purpose, object and methods of the State Geological Survey; by Geo. H. Ashley; 33 pages, issued July, 1910; postage, 2 cents.
- B. Bibliography of Tennessee and related subjects; by Elizabeth Cockrill.
- C. History of Geological work in Tennessee; by L. C. Glenn (in preparation).

Bulletin No. 2.—Preliminary papers on the Mineral Resources of Tennessee; by Geo. H. Ashley and others. (Parts A, E and G issued.)

- A. Outline introduction to the Mineral Resources of Tennessee; by Geo. H. Ashley; issued September 10, 1910; postage, 2 cents.
- B. The coal fields of Tennessee; by Geo. H. Ashley (in preparation).
- C. The iron ores of Tennessee; by R. P. Jarvis (in preparation).
- D. The marble of East Tennessee; by C. H. Gordon (in preparation).
- E. Oil and gas development in Tennessee; by M. J. Munn (issued). postage, 2 cents.
- F. The phosphate deposits of Tennessee; by Lucius P. Brown (in preparation).
- G. Zinc Mining in Tennessee; by S. W. Osgood (issued); postage, 1 cent.
- H. Preliminary Geological map of Tennessee, (in preparation).

Bulletin No. 3.—Drainage Reclamation in Tennessee; 74 pages; issued July, 1910; postage, 3 cents.

- A. Drainage Problems in Tennessee; by Geo. H. Ashley; pp. 1-15; postage, 1 cent.
- B. Drainage of Rivers in Gibson County, Tennessee; by A. E. Morgan and S. H. McCrory; pp. 17-43; postage, 1 cent.
- C. The Drainage Law of Tennessee; pp. 45-74; postage, 1 cent.

Bulletin No. 4.—Administrative Report of the State Geologist for 1910.

Bulletin No. 5.—Clay deposits of West Tennessee; by Wilbur A. Nelson (in press).

Bulletin No. 6.—Road Building in Tennessee; by Geo. H. Ashley (in preparation).

Bulletin No. 7.—Water Resources of Tennessee; by L. C. Glenn (in preparation).

Bulletin No. 8.—Economic Geology of the Dayton-Pikeville Region; by W. C. Phalen (in preparation).

Bulletin No. 9.—Studies of the Forests of Tennessee.

- A. An investigation of the forest conditions in Tennessee; by R. Clifford Hall (in preparation).
- B. A study of the growth of the second growth hardwoods; by W. W. Ashe (in preparation).

Bulletin No. 10.—The marbles of East Tennessee, illustrated with colored plates; by C. H. Gordon (in preparation).

Bulletin No. 11.—Preliminary report on copper deposits of Polk County; by W. H. Emmons (in preparation).

Bulletin No. 12.—The undeveloped small water powers of Tennessee; by J. A. Switzer and Geo. H. Ashley (in press).

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